Project Report for the New Jersey State Revolving Fund

Hoboken South West Park

Project No. SRF 340635-05

This project report includes the following documents:

- I. Environmental Assessment
- II. Engineering Requirements
- III. Cultural Resource Assessment
- Appendix

I. Environmental Assessment
Level 1 Environmental Review
N.J.A.C. 7:22-10.4

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I. Environmental Assessment
Level 1 Environmental Review
N.J.A.C. 7:22-10.4

A. Project Identification

Project name:	Hoboken South West Park Project
Name and address of applicant:	City of Hoboken 94 Washington Street Hoboken, NJ 07030
SRF Project Number:	340635-05
Project Location:	Hoboken, Hudson County

B. Project Description

The City of Hoboken (City) is located in Hudson County (County) along the western bank of the Hudson River. Approximately 1.27 square miles in area, Hoboken is the 4th densest city in the United States with 39,939 residents per square mile and has a 2013 population of 50,929. Hudson County, which includes Bayonne, Jersey City, Kearny, Hoboken, Union City and West New York, is approximately 46.19 miles in area and has a 2013 population of 644, 605. The North Hudson Sewerage Authority (NHSA) provides sewer services to 4 municipalities, including Union City, Weehawken, West New York and Hoboken.

One of the fastest growing municipalities in the tri-state area, Hoboken is a thriving commuter city which benefits from its proximity to Manhattan and an abundance of public transportation options, including the PATH rapid transit system, NJ Transit commuter rail and multiple ferry routes. The City's main commercial corridor runs south to north along Washington Street, approximately ¼ mile from the Hudson River.

Partially built on a landfilled swamp, Hoboken is primarily a low-lying city. The Federal Emergency Management Agency (FEMA)'s Flood Insurance Rate Maps place the majority of the City within the 100-year tidal floodplain. In addition, Hoboken's combined sewer system collects both sanitary and stormwater flows, a condition which diminishes water quality and leads to flooding. During wet weather, excess water bypasses the waste water treatment plant and flows out of combined sewer overflows (CSO), directly into the Hudson River. During high tide, the CSOs can become submerged, preventing the excess water from discharging. When the collection system reaches capacity, water cannot flow in and this results in heavy flooding, especially in the southwest portion of the City.

The Hoboken South West Park project directly addresses current flooding issues in this area of Hoboken by introducing green stormwater infrastructure and subsurface detention, which will reduce stormwater runoff in accordance with the NHSA regulations, City of Hoboken Ordinance and the New Jersey Department of Environmental Protection (NJDEP) Stormwater regulation.

The project is supportive of improved environmental performance and builds on the "Resist, Delay, Store, Discharge" strategy which was developed as part of the Rebuild by Design competition and awarded a $230 million grant by the Department of Housing and Urban Development (HUD) for the implementation of long term flood protection measures in Hoboken.

The Hoboken South West Park project also aligns with the City and NHSA's recent efforts to alleviate flooding in the most vulnerable sections of Hoboken - as evidenced by the construction of the City's first wet weather pump (H1 WWPS) on Observer Highway in 2012. Financing for an additional wet weather pump, which will address flooding issues in the northwest of the City, was recently secured through an $11.7 million loan from NJEIT.

i. Project site

Located on Block 12, Lots 1-7, 9 and 12-18 in southwest Hoboken, the Hoboken South West Park project will transform an existing asphalt parking lot into a 1.24-acre park including bioswales, rain gardens, permeable pavers and subsurface detention. The park will also include general lawn areas, plant beds, benches, a dog run, a small utility storage building, and an event space with multi-level seating.

The project site is bound by Paterson Avenue to the north, Jackson Street to the East, Harrison Street to the West and Observer Highway to the South. At present, two 2-storey residential properties and one commercial property are located on the block of the project site. These properties will remain in place and will not be developed.

ii. Project goals and design intent

The Hoboken South West Park project has the following goals:

- To manage stormwater for a 10-year storm event
- To create a park design that expresses community preferences
- To create a park that performs as a standalone park while still anticipating future park expansion

Design intent:

The inviting green presence of the park announces the coming transformation of southwest Hoboken and signals smart green infrastructure. The park layout supports flexible use, with public spaces scaled to be comfortable both for regular daily use and periodic community events. Future phases of park development, whether on Block 12 or adjacent blocks, offer opportunities for providing a more complete array of dedicated recreational facilities. Fixed park infrastructure – including lighting, electrical service panels and water supply equipment – are raised above ground to reduce risk of flood damage.

Design intent for the park perimeter:

Where feasible, new corner curb extensions, or "neckdowns", will promote park access and pedestrian safety by shortening street crossing distances to the park. Planted infiltration basins will catch rainwater from the curb runnel, filtering and slowing street runoff from entering the City's sewer system.

On all four sides of the park, missing and broken sidewalks will be replaced with new concrete pavement. Additionally, all park edges will be planted and have fixed benches and bicycle parking.

Specific design interventions will occur at the following locations along the park perimeter:

> *Paterson Plank Road:* At the corner of Harrison Street, the planted island which fronts Paterson Plank Road will be restored and a new shelter will be proposed for the existing bus stop. On the park frontage from the midblock to the corner of Jackson Avenue, a rising lawn topped with an interactive, child-friendly sculpture announces the park's green presence along its busiest public edge.
>
> *Jackson and Harrison Streets:* These two North-South streets have main entrances into the park interior. The Jackson street entrance at Paterson Plank is announced by a low retaining seat wall arcing around the lawn edge. The street sidewalks are edged by rain gardens and shaded by street trees.
>
> *Observer Highway:* A park mall, a broad walkway flanked by shade trees and benches, creates a flexible space for community events such as art shows and farmers markets. The adjacent curb lane of the street accommodates vehicle-based services like food trucks, bookmobiles, or farmers' trucks that enhance the park experience. For infrequent large community events, the block of Observer Highway can be closed, doubling the usable event space.

Design intent for the park interior:

Three broad park entrances – from the corner of Jackson and Paterson, from the park corner midblock on Harrison, and from the midblock of Observer – lead visitors into the park through green spaces. In the center, a low amphitheater, backed by the raised lawn, creates a central focus for community events and programming. The sunny spaces of the lawn and amphitheater are balanced by a shaded plaza area with movable tables and chairs. Raised display planters define quieter, more intimate side spaces against the rain gardens. Benches are located throughout the park and a water fountain and trash receptacles will be provided. With the lawn area, shade trees, display planting, and planted rain gardens, the interior of the park creates a green respite within a small space, while remaining connected to the City.

A fenced dog run, with rolling topography and a low-maintenance surface, is the sole single-purpose zone of the park interior, proving the only dedicated space for dogs and their owners in southwest Hoboken.

The first phase of the park has no separated playground space, but is designed to be engaging for children. During a typical day, the lawn and pavements provide safe space for running, scootering and tricycling. The amphitheater and seating areas support storytelling and impromptu performances, and a series of interactive elements, including the lawn sculpture and dance chimes, support creative play.

iii. Stormwater management and water quality benefits

Using a series of integrated features the park is designed to handle a 10-year storm within its own boundaries. The stormwater design for the site combines passive rainwater collection with permeable paving, rain gardens, bioswales, and subsurface storage beneath the park. On the perimeter, curb-side infiltration basins will filter and delay street runoff.

All of the pavements within the park, including the park mall on Observer Highway, will be permeable, so that the first rainfall will be absorbed within the pavement. The paved areas will be pitched toward the two rain gardens, so the next increment of rain will be held above the surface of the rain gardens and slowly absorbed. The rain gardens are to feature low guards that allow water through yet protect the planting beds.

Under current conditions, the 1.24-acre site consists of one watershed with 1.06 acres of impervious area and 0.18 acres of pervious area (*see Appendix C – Stormwater Management Report - Figure 3 – Existing Watershed Plan*). At present, runoff from the site is collected into inlets located at the four corners of the site, and eventually conveyed to a 4' x 8' combined sewer line in Observer Highway that ultimately discharges into the Hudson River.

TABLE 1 – IMPERVIOUS AND PERVIOUS AREAS

	Impervious area (acres)	Pervious area (acres)	Permeable pavers area (acres)
Existing conditions	1.06	0.18	0
Proposed conditions	0.53	0.44	0.27
Δ	-0.53	+0.26	+0.27

(See Appendix C - Stormwater Management Report – appendix A for calculations)

The project proposes to remodel the 1.24-acre site as one watershed with 0.53 acres of impervious area, 0.27 acres of permeable pavers area and 0.44 acres of pervious area (*see Appendix C - Stormwater Management Report – Figure 4 – Proposed Watershed Plan*). As displayed in Table 1, the proposed development would significantly reduce the impervious coverage from pre-construction to post-construction conditions and increase pervious coverage by introducing permeable pavers.

The proposed watershed site would then be further divided into five sub-watersheds, three of which (A-1, A-2, A-3) would ultimately be conveyed to three new subsurface detention basins. These subterranean storage chambers, located in the zone between the park pavement and the water table, will collect overflow from the rain garden and any drain inlets within the park. The stored rainwater will slowly be released, greatly reducing the peak flow to the City's sewer system. The three subsurface detention basins are sized to collectively store up to 10,275 cubic feet of water (*for exact dimensions of the detention basins see Appendix – C- Stormwater Management Report section 4.5*).

The site's other two sub-watersheds (A-4 and A-5), which are comprised of the dog run area and the landscape island in the northern portion of Block 12, will be undetained. For sanitary reasons, stormwater runoff from the dog run will be conveyed separately from the rest of the site. For this sub-watershed,

which consists of 0.08 acres of impervious area, stormwater runoff will be collected via a series of inlets and ultimately conveyed to the existing combined sewer system located at Harrison Street (*see Appendix C - Stormwater Management Report - Figure 4 Proposed Watershed Plan*).

Sub-watershed A-5, which includes the landscape island as well as the bioswales and sidewalk area located within the right of way, consists of 0.32 acres of impervious area, 0.04 acres of permeable pavers, and 0.10 acres of pervious area. Stormwater runoff from this sub-watershed will flow directly into catch basins located at the intersection of the streets surrounding the project site.

Ultimately, all five sub-watersheds will be conveyed to the 4' x 8' combined sewer line in Observer Highway that discharges into the Hudson River.

Peak flow rates:
Existing and proposed peak flow rates for the site have been analyzed and are summarized in Table 2 below. The increase in pervious area in the proposed conditions and the conveyance of runoff through the subsurface detention basins results in a significant reduction of peak runoff rates. For this reason, the proposed peak discharge rates for the 2-, 10- and 100-year storm events are reduced from the existing peak discharge rates for the site.

TABLE 2 - PEAK WATERSHED AREA DISCHARGES

	Area	2-year flow (cfs)	10-year flow (cfs)	100-year flow (cfs)
Existing Watershed	1.24	3.74	5.84	9.85
Proposed Watershed	0.84	1.92	2.95	4.92

(See Appendix C – Stormwater Management Report – appendix A for calculations)

Water quality:
This project is considered a "major development" as defined by the Stormwater Management Regulations issued by the New Jersey Department of Environmental Protection (NJDEP). However, stormwater quality treatment is not required for this project as impervious coverage is being reduced by 0.53 acres.

The lawn areas, rain gardens, dog run and play areas of the park do not receive vehicular traffic and therefore, per NJDEP regulations, do not need to be treated for total suspended solids (TSS) removal.

However, the proposed bioswales, rain gardens and permeable pavers will increase water quality by providing varying degrees of TSS removal rates per the New Jersey Stormwater Best Management Practices Manual. The TSS removal rates associated with the bioswales, rain gardens and permeable pavers are as follows:

TABLE 3 – WATER QUALITY	
Best Management Practice	**TSS Removal Rate (%)**
Bioswales	90%
Rain Garden	90%
Permeable Pavers	80%

Groundwater Recharge:
The NJDEP Stormwater Regulations (NJAC 7:8) do not require the implementation of a groundwater recharge system because the site is located in an urban PA-1 zone.

Conclusion:

Once the Hoboken South West Park is completed, the stormwater runoff from the 1.24-acre site will be significantly reduced from the existing peak flow rates for the 2-, 10- and 100-year storm events as the proposed project increases the pervious coverage by 0.53 acres and provides additional storage via the proposed rain gardens and subsurface detention basins. The three subsurface detention basins and the rain gardens have been designed to accommodate 10,863 cubic feet of water - the entire water volume of a 10-year storm.

In addition, water quality improvements have been incorporated into the design through the use of bioswales, rain gardens and permeable pavers. The proposed stormwater conveyance system has been designed to safely and effectively convey a 10-year storm event.

For the reasons stated above, we believe that the Hoboken South West Park project qualifies for a Level 1 Environmental Review. In addition, the Hoboken South West Park project does not present any of the characteristics listed in N.J.A.C. 7:22-10.4 2(b) 1-4.

C. Beneficial and adverse impact on environmental or cultural resources features

i. Environmental consequences of the selected plan

i.i Air quality:
No significant long-term impacts are expected as a result of the project. There may be some short-term impacts on air quality associated with construction due to increased vehicular emissions from construction equipment and generation of dust from earth-moving operations. These impacts will be temporary and localized.

Furthermore, these impacts will be minimized by requiring proper operation and maintenance of construction equipment and sweeping and wetting of the construction area for dust control. Vehicles transporting fill, dirt, or other materials will be covered.

i.ii Noise:
There will be some short-term, localized noise impacts during construction. These impacts are unavoidable but will be temporary and localized and will be minimized by requiring machinery to be equipped with proper mufflers, limiting construction to normal working hours and limiting construction to avoid holidays and weekends. There are no long-term noise impacts anticipated with this project.

i. iii Social and Economic factors:
Green stormwater infrastructure construction on Block 12 will not result in an increase in the City's annual average sewer usage charge. Existing stormwater runoff rates will be reduced to mitigate flooding but the site will not allow for future residential development.

Construction of the proposed park will causes inconveniences to local residents in the form of noise, dust, traffic congestion and permanent closure of the existing parking lot. With the exception of the parking lot closure, these impacts will be temporary and minimized by incorporating requirements for mufflers, limiting construction hours and requiring dust control in the construction procedures.

The long term benefits of the proposed park and associated green stormwater infrastructure are as follows:

- Reduction in flooding events due to combined sewer overflow backups
- Stormwater management of a 10-year storm event
- Provision of new open space and neighborhood amenities: a dog run, an amphitheater, rolling lawns and interactive features which support creative play

i. iv Population and Wastewater Flow Projections:
The project does not include any capacity for future residential development on the site. The project is expected to control the amount of stormwater flow to areas that are known to flood frequently.

i. v Natural resources:
The project site contains an asphalt covered parking area, and an undeveloped vegetated lot in an industrialized area of southwest Hoboken. There are no surface water bodies or wetlands positioned on or immediately proximate to the project site. Surface water (e.g. rain) both on and immediately proximate to, the project site is managed via the municipal storm water system.

Based on information presented in the NJDEP GeoWeb database and known site conditions, environmentally sensitive natural resources (other than groundwater) as defined in NJAC 7:26E are not present on or immediately adjacent to the project site. *(For further details see Appendix A*

– Figure 5 NJDEP Threatened and Endangered Species Habitat Map & Appendix C – NJDEP Threatened and Endangered Species Habitat Correspondence.)

Conclusion:

The following steps will be followed to minimize adverse effects on the environment during construction:

- *Use of proper erosion and sediment control measures:*
  Soil erosion and sediment control measures will be established in accordance with a Soil Erosion and Sediment Control Plan approved by the Hudson Essex Passaic Soil Conservation District. The required measures include, but are not limited to: site fence; straw bales; vehicle tracking pads; dust control; and seeding and stabilization measures.

- *Site clearing:*
  Coincident with the initiation of Site redevelopment, the existing surficial materials will be removed as needed. The existing asphalt materials will be removed, and managed off-site at an appropriately designated facility (e.g. recycling, disposal). Similarly, any incidental debris will be characterized, and managed off-site at an appropriately designated facility (e.g. recycling, disposal).

- *Noise control:*
  Noise control will be provided by requiring equipment to have proper mufflers, limiting the number of machines in operation, limiting the hours of operation to normal working hours and limiting construction to avoid weekends and holidays.

- *Perimeter Air Monitoring Plan:*
  A Perimeter Air Monitoring Plan (PAMP) is required during a remedial action, if applicable, to monitor and control off-site excursion of dust, vapor and odors. In consideration of this requirement, and based on the proposed construction details, it is anticipated that the redevelopment of the Site into a park will be completed in small operational areas, and result in no fugitive dust being created. This condition suggests that no PAMP will be required for the defined operations.

  In support of this conclusion, active real-time personal air monitoring will be completed during site activities involving disturbance of contaminated materials, clearing, excavation, and site grading. The monitoring will include assessment for volatile organic constituents via a photoionization detector (PID) and dust monitoring. Should real-time personal air monitoring reveal fugitive dust at levels above the applicable criteria established in the HASP, applicable engineering controls (e.g. water truck, modification of excavation methods) will be applied to eliminate the generation of fugitive dust.

- *Clean Fill Utilization:*
  Fill materials may be imported onto the Site to facilitate the park construction operations. These materials may include sand, clean stone, dense graded aggregate and/or other

construction materials. Said materials will be recognized as "clean fill" consistent with the requirements set forth in the *Alternative and Clean Fill Guidance for SRP Sites*, Version 2.0, December 29, 2011; and NJAC 7:26E -1.8.

ii. Cultural resources features

As part of this report, the project was reviewed for its potential to affect significant cultural resources. At present, the project site is occupied by an asphalt parking lot and existing facilities include an automated parking gate and a chain link fence. These will be demolished during construction and excavation work will be required to implement the new park facilities.

The Hoboken South West Park will introduce the following green stormwater infrastructure: bioswales, rain gardens, permeable pavers and subsurface detention basins. The park will also include general lawn areas, plant beds, benches, a dog run, a water fountain, a small utility storage building, and an event space with multi-level seating.

It is anticipated that excavation work will be necessary for the implementation of the following:

- Minor foundations for site elements such as utility structures, light poles, seating terrace
- Horticultural soils for plantings

For a precise description of the depths and widths of excavations please refer to *Appendix B – List of Drawings – Excavations Plan.* It is anticipated that the nature of the physical disturbance associated with the project will be temporary and localized.

ii.i Environmental characteristics of the planning area:
The site presently contains an asphalt covered parking area, and an undeveloped vegetated lot. It is relatively flat with a ground surface elevation of approximately 13 ft. and realizes a slight slope to the southeast.

A remedial action work plan (RAWP) report conducted by Langan Engineering for the City in December 2014 has identified the project site as containing historic fill (e.g. brick, concrete, coal, ash, wood, glass) – as defined by the *Historic Fill of the Jersey City Quadrangle, Historic Fill Map HFM-53, 2004* (*see Appendix C – Remedial Action Work Plan (RAWP) - Figure 4*).

In order to analyze site soils, Boswell McClave Engineering completed the advancement of seven soil borings to depths of approximately 10 ft. below surface grade (bsg) *(see Appendix C – RAWP - Site Investigation Report).*Based on the soil boring logs, Boswell McClave Engineering investigated three distinct Areas of Concerns (AOCs) – consistent with NJAC 7:26 E-3.3:

- AOC – 1 : Historic Fill

  The Site Investigation operations confirmed the presence of historic fill materials which typically range from near surface, to approximately 9.5 ft. bsg, and underlie the entire

site. Both the shallow soils and groundwater contain constituents above the SRS that are typical and consistent with historic fill character.
The remedial strategy applicable for the identified historic fill conditions includes the implementation of engineering (e.g. cap) and institutional (e.g. deed notice, classification exception area) controls, and is consistent with NJDEP *Historic Fill Material Technical Guidance*, Version 2.0, April 29, 2013.

- AOC – 2: Potential Underground Storage Tanks (UST)

  The Site Investigation operations did not find any geographical and/or visual indications of UST's within the surveyed area. Given this condition, no further operations were recommended for this AOC.

- AOC – 3: Off-site former UST releases

  The Site Investigation operations did not find any administrative/research or groundwater quality data suggesting that any off-site former UST releases have affected the subject properties. Given this condition, no further operations were recommended for this AOC.

ii. ii Presence of cultural resource material:
The site or portions thereof, has realized development since the late 1800's. The site's history, detailed below, was extracted from historic Sanborn Fire Insurance Maps (Sanborn) and topographic maps dating back to 1891.

The 1938 and 1951 Sanborn maps provide evidence of increased development on the project site, including the presence of dwellings, multistory buildings including stores and apartments, storage buildings and an ice house. Selected lots including 1-6 and 16-18 remained undeveloped while the southern portion of Block 12 contained an elevated superstructure of the North Hudson County Railway. This railway used to provide service from the Jersey City Heights to the Lackawanna Terminal located to the east along the Hudson River.

The 1979 Sanborn maps identify functions similar to those present in the 1951 Sanborn map with the exception of the removal of the elevated superstructure of the North Hudson County Railway on the southern portion of Block 12.

The 1988 and 1990 Sanborn maps identify selected lots 1-6 and 16-18 as undeveloped while the structures on lots 12-15 have been demolished and removed. This configuration remains today, with the majority of the project site utilized as asphalt covered parking lot.

Conclusion:

Based on the geological analysis included in the RAWP (*see Appendix C – RAWP- Summary of Environmental Investigations*) and the project site's history, the project is located in a heavily filled-in

tidal area with no potential for prehistoric occupation thus the project components will have no effect on significant cultural resources.

D. Evaluation of Alternatives

i. No action alternative

Under this alternative, drainage conditions within the project site would remain unchanged. No permeable pavers, rain gardens, or subsurface detention basins would be constructed. The combined sewers in the vicinity of Block 12 would continue to flood until appropriate infrastructure could be installed to alleviate the overflows and surcharges that would result from significant rain events.

Since this alternative would not reduce flooding in the area, and would result in continued sewage backups within the project site neighborhood, this alternative was not selected.

ii. Selected alternative

The City purchased Block 12 lots 1-7, 9, and 12-18 in southwest Hoboken as part of a comprehensive City-wide climate resiliency strategy developed through the Rebuild by Design competition. The Hoboken South West Park project aims to protect the neighborhood from recurring flooding events and reduce combined sewer overflows into the Hudson River. The project will be the first component of a new South West Hoboken Park and will transform an existing asphalt parking lot into 1.24-acre park including bioswales, rain gardens, permeable pavers and subsurface detention. The park will also include general lawn areas, plant beds, benches, a dog run, a small utility storage building, and an event space with multi-level seating.

Since this alternative provides management of stormwater for a 10-year storm event, reduces the chances of sewer backups during flood events, and provides a host of community amenities for the neighborhood, this alternative was selected.

E. Public involvement in the development

Four public meetings were held on the following dates: 12/10/13, 01/28/14, 06/04/14, and 12/18/14 to discuss the proposed project.

The 12/10/13, 01/28/14, and 12/18/14 meetings were advertised with 30 days' public notice in The Jersey Journal, according to standard NJDEP/NJEIT protocol. For the final public meeting, the City also posted a press release on the City's website and advertised through Nixle, Facebook and Twitter on 12/11/14.

In coordination with the Hoboken planning team, Starr Whitehouse Landscape Architects and Planners organized and led four public outreach workshops to develop an understanding of the community's concerns about the neighborhood and program preferences for the proposed park. Results from the first workshop were synthetized into four draft design concepts that were presented to the community during the second workshop and presented in a survey through the City's website. The public comments and preferences were reviewed and synthetized into a final design scheme. The final park design, including lighting and stormwater concepts, was presented in a final public meeting.

In all meetings and public surveys, people spoke in support of a green park with lawns, trees and shrubs. Stormwater mitigation was also a primary concern. There was general support for providing flexible space for events and performance, as well as for temporary markets and mobile food services (cart or food trucks), in order to maximize services while minimizing built infrastructure. Dogs in the park were both liked and disliked, but people in both camps acknowledged that there were many nearby dog owners, no nearby facilities in southwest Hoboken, and a value in providing a dedicated facility.

F. List of Maps

The following maps can be found in the Project Report Appendix:

A map of the service area of the affected environmental infrastructure facilities:

- Figure 1- HUC Watershed Map
- Figure 2 - North Hudson Authority Service Area Map

A suitable 8.5 inch by 11 inch map of the planning area which depicts the location of the proposed activity:

- Figure 3 - USGS Site Location Map
- Figure 4 - Site Location Map

II. Engineering Requirements
Level 1 Environmental Review
(N.J.A.C. 7:22-3.11(d) 5, 3.35)

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A. Project description

The Hoboken South West Park project directly addresses current flooding issues in the south west area of Hoboken by introducing green stormwater infrastructure and subsurface detention, which will reduce stormwater runoff in accordance with the NHSA regulations, City of Hoboken Ordinance and the New Jersey Department of Environmental Protection (NJDEP) Stormwater regulation.

i. Project site

Located on Block 12, Lots 1-7, 9 and 12-18 in South West Hoboken, the South West Park project will transform an existing asphalt parking lot into a 1.24-acre park including bioswales, rain gardens, permeable pavers and subsurface detention. The park will also include general lawn areas, plant beds, benches, a dog run, a small utility storage building, and an event space with multi-level seating.

The project site is bound by Paterson Avenue to the north, Jackson Street to the East, Harrison Street to the West and Observer Highway to the South. At present, two 2-storey residential properties and one commercial property are located on the block of the project site. These properties will remain in place and will not be developed.

ii. Project goals

The Hoboken South West Park project has the following goals:

- To manage stormwater for a 10-year storm event
- To create a park design that expresses community preferences
- To create a park that performs as a standalone park while still anticipating future park expansion

iii. Project utilities

The park requires water and electrical supply, which will be brought from Harrison Street to a new locked utility shed adjacent to the dog run. Inside the shed, electrical panels and water supply equipment will be located above grade to minimize damage from flooding.

The park will have public drinking fountains and secure hose bibs for maintenance purposes. The lighting plan is designed for energy efficiency and flood resilience. Due to flooding concerns, the park lighting plan relies on raised fixtures (no in-ground or low bollard lights). Interior park lighting will be provided by an array of 12 ft. pedestrian poles with shielded LED luminaires. At the amphitheater, where an array of park lighting might interfere with performance activities, a single taller pole with LED spotlights will illuminate the entire lawn and central performance space.

iv. Stormwater management

Using a series of integrated features the park is designed to handle a 10-year storm within its own boundaries. The stormwater design for the site combines passive rainwater collection with permeable paving, rain gardens, bioswales and subsurface storage beneath the park. On the perimeter, curb-side infiltration basins will filter and delay street runoff.

All of the pavements within the park, including the park mall on Observer Highway, will be permeable, so that the first rainfall will be absorbed within the pavement. The paved areas will be pitched toward the two rain gardens, so the next increment of rain will be held above the surface of the rain gardens and slowly absorbed. The rain gardens are to feature low guards that allow water through yet protect the planting beds.

Under current conditions, the 1.24-acre site consists of one watershed with 1.06 acres of impervious area and 0.18 acres of pervious area (*see Appendix C – Stormwater Management Report - Figure 3 – Existing Watershed Plan*). At present, runoff from the site is collected into inlets located at the four corners of the site, and eventually conveyed to a 4' x 8' combined sewer line in Observer Highway that ultimately discharges into the Hudson River.

TABLE 1 – IMPERVIOUS AND PERVIOUS AREAS

	Impervious area (acres)	Pervious area (acres)	Permeable pavers area (acres)
Existing conditions	1.06	0.18	0
Proposed conditions	0.53	0.44	0.27
Δ	-0.53	+0.26	+0.27

(See Appendix C - Stormwater Management Report – appendix A for calculations)

The project proposes to remodel the 1.24-acre site as one watershed with 0.53 acres of impervious area, 0.27 acres of permeable pavers area and 0.44 acres of pervious area (*see Appendix C - Stormwater Management Report – Figure 4 – Proposed Watershed Plan*). As displayed in Table 1, the proposed development would significantly reduce the impervious coverage from pre-construction to post-construction conditions and increase pervious coverage by introducing permeable pavers.

The proposed watershed site would then be further divided into five sub-watersheds, three of which (A-1, A-2, A-3) would ultimately be conveyed to three new subsurface detention basins. These subterranean storage chambers, located in the zone between the park pavement and the water table, will collect overflow from the rain garden and any drain inlets within the park. The stored rainwater will slowly be released, greatly reducing the peak flow to the City's sewer system. The three subsurface detention basins are sized to collectively store up to 10,275 cubic feet of water (*for exact dimensions of the detention basins see Appendix C - Stormwater Management Report section 4.5*).

The site's other two sub-watersheds (A-4 and A-5), which are comprised of the dog run area and the landscape island in the northern portion of Block 12, will be undetained. For sanitary reasons, stormwater runoff from the dog run will be conveyed separately from the rest of the site. For this sub-watershed, which consists of 0.08 acres of impervious area, stormwater runoff will be collected via a series of inlets

and ultimately conveyed to the existing combined sewer system located at Harrison Street (*see Appendix C - Stormwater Management Report - Figure 4 Proposed Watershed Plan*).

Sub-watershed A-5, which includes the landscape island as well as the bioswales and sidewalk area located within the right of way, consists of 0.32 acres of impervious area, 0.04 acres of permeable pavers, and 0.10 acres of pervious area. Stormwater runoff from this sub-watershed will flow directly into catch basins located at the intersection of the streets surrounding the project site.

Ultimately, all five sub-watersheds will be conveyed to the 4' x 8' combined sewer line in Observer Highway that discharges into the Hudson River.

iv.i Peak flow rates:
Existing and proposed peak flow rates for the site have been analyzed and are summarized in Table 2 below. The increase in pervious area in the proposed conditions and the conveyance of runoff through the subsurface detention basins results in a significant reduction of peak runoff rates. For this reason, the proposed peak discharge rates for the 2-, 10- and 100-year storm events are reduced from the existing peak discharge rates for the site.

TABLE 2 - PEAK WATERSHED AREA DISCHARGES

	Area	2-year flow (cfs)	10-year flow (cfs)	100-year flow (cfs)
Existing Watershed	1.24	3.74	5.84	9.85
Proposed Watershed	1.24	1.92	2.95	4.92

(See Appendix C – Stormwater Management Report – appendix A for calculations)

Conclusion:

Once the Hoboken South West Park is completed, the stormwater runoff from the 1.24-acre site will be significantly reduced from the existing peak flow rates for the 2-, 10- and 100-year storm events because the proposed project increases the pervious coverage by 0.53 acres and provides additional storage via the proposed rain gardens and subsurface detention basins. The three subsurface detention basins and the rain gardens have been designed to collectively accommodate 10,863 cubic feet of water - the entire water volume of a 10-year storm.

In addition, water quality improvements have been incorporated into the design through the use of bioswales, rain gardens and permeable pavers. The proposed stormwater conveyance system has been designed to safely and effectively convey the 10-year storm event.

B. Project costs

The capital cost of this project is estimated to be $3,837,552 (base total with mobilization). Details on the capital cost estimates are provided in *Appendix C – Project Cost Estimates (50% Design Development, Toscano Clements Taylor Cost Consultants).*

Annual operation and maintenance for the Hoboken South West Park will include the following:

- Irrigation
- Landscaping
- Trash removal
- Snow removal
- Dog Run maintenance
- Restroom maintenance
- Lighting maintenance (for floodlamps only)
- General amenities maintenance
- Special events maintenance
- Infrastructure maintenance

It is anticipated that landscaping and irrigation services will be contracted out to a private firm.

Please find a cost estimate below:

Annual Maintenance and Operation costs for Hoboken South West Park: $350,000

C. Open space and recreation opportunities associated with the project

The Hoboken South West Park will provide new recreation opportunities for local residents and visitors of all ages.

The park layout supports flexible use, with public spaces scaled to be comfortable both for regular daily use and periodic community events. Future phases of park development, whether on Block 12 or adjacent blocks, offer opportunities for providing a more complete array of dedicated recreational facilities.

Design intent for the park perimeter:

Where feasible, new corner curb extensions, or “neckdowns”, will promote park access and pedestrian safety by shortening street crossing distances to the park. Planted infiltration basins will catch rainwater from the curb runnel, filtering and slowing street runoff from entering the City’s sewer system.

On all four sides of the park, missing and broken sidewalks will be replaced with new concrete pavement. Additionally, all park edges will be planted and have fixed benches and bicycle parking.

Specific design interventions will occur at the following locations along the park perimeter:

Paterson Plank Road: At the corner of Harrison Street, the planted island which fronts Paterson Plank Road will be restored and a new shelter will be proposed for the existing bus stop. On the park frontage from the midblock to the corner of Jackson Avenue, a rising lawn topped with an

interactive, child-friendly sculpture announces the park's green presence along its busiest public edge.

Jackson and Harrison Streets: These two North-South streets have main entrances into the park interior. The Jackson street entrance at Paterson Plank is announced by a low retaining seat wall arcing around the lawn edge. The street sidewalks are edged by rain gardens and shaded by street trees.

Observer Highway: A park mall, a broad walkway flanked by shade trees and benches, creates a flexible space for community events such as art shows and farmers markets. The adjacent curb lane of the street accommodates vehicle-based services like food trucks, bookmobiles, or farmers' trucks that enhance the park experience. For infrequent large community events, the block of Observer Highway can be closed, doubling the usable event space.

Design intent for the park interior:

Three broad park entrances – from the corner of Jackson and Paterson, from the park corner midblock on Harrison, and from the midblock of Observer – lead visitors into the park through green spaces. In the center, a low amphitheater, backed by the raised lawn, creates a central focus for community events and programming. The sunny spaces of the lawn and amphitheater are balanced by a shaded plaza area with movable tables and chairs. Raised display planters define quieter, more intimate side spaces against the rain gardens. Benches are located throughout the park and a water fountain and trash receptacles will be provided. With the lawn area, shade trees, display planting, and planted rain gardens, the interior of the park creates a green respite within a small space, while remaining connected to the City.

A fenced dog run, with rolling topography and a low-maintenance surface, is the sole single-purpose zone of the park interior, proving the only dedicated space for dogs and their owners in southwest Hoboken.

The first phase of the park has no separated playground space, but is designed to be engaging for children. During a typical day, the lawn and pavements provide safe space for running, scootering and tricycling. The amphitheater and seating areas support storytelling and impromptu performances, and a series of interactive elements, including the lawn sculpture and dance chimes, support creative play.

D. Compliance with the Environmental Assessment Requirements for State Assisted Environmental Infrastructure Facilities (N.J.A.C. 7:22-10)

It is anticipated that the Hoboken South West Park project qualifies for a Level 1 Environmental Review as the project presents the following characteristics, detailed in 7:22-10.4.2:

> "**2**. Construction of ancillary facilities or minor improvements to environmental infrastructure facilities which do not create a new discharge, reduce the level of treatment, or result in an increase in quantity of flow of an existing discharge."

In addition, the Hoboken South West Park project does not present any of the characteristics listed in N.J.A.C. 7:22-10.4 2(b) 1-4.

As part of this report, an Environmental Assessment was conducted for the Hoboken South West Park project. Please refer to I. Environmental Assessment for further details related to N.J.A.C. 7:22-10.4

E. Selected Alternative – Project Description:

i. Relevant design parameters

The proposed improvements consist of the construction of a new 1.24-acre public park. The proposed park features include general lawn areas, plant beds, benches, retaining walls, a dog run, a small utility storage building and an event space with multi-level seating.

The park will also include green stormwater infrastructure, such as bioswales, rain gardens and permeable pavers designed to treat and reduce the amount of stormwater runoff leaving the site. The stormwater design for the site combines passive rainwater collection with subsurface storage beneath the park. Three subterranean storage chambers, located in the zone between the park pavement and the water table, will collect overflow from the rain garden and any drain inlets within the park. The stored rainwater will slowly be released, greatly reducing the peak flow to the City's sewer system. (*For dimensions of the detention basins see Appendix C - Stormwater Management Report section 4.5*)

The project is considered a "major development" as defined by the Stormwater Management Regulations issued by the New Jersey Department of Environmental Protection (NJDEP) because the area of disturbance (1.24-acres) is greater than an acre. As a result, the stormwater management design must demonstrate that there is no increase, as compared to the pre-construction conditions, in the peak runoff rates of stormwater leaving the site for the 2-,10- and 100-year storm events per NJDEP regulations (N.J.A.C. 7:8-5.4(a)3ii).

Once the Hoboken South West Park is completed, the stormwater runoff from the 1.24-acre site will be significantly reduced from the existing peak flow rates for the 2-, 10- and 100-year storm events as the proposed project increases the pervious coverage by 0.53 acres and provides additional storage via the proposed rain gardens and subsurface detention basins. The three subsurface detention basins and the rain gardens have been designed to accommodate 10,863 cubic feet of water - the entire water volume of a 10-year storm.

In addition, water quality improvements have been incorporated into the design through the use of bioswales, rain gardens and permeable pavers. The proposed stormwater conveyance system has been designed to safely and effectively convey the 10-year storm event.

(*For flow diagrams and hydraulic profiles associated with the stormwater infrastructure please refer to Appendix C – Stormwater Management Report – appendix B & C - Stormwater Conveyance Calculations and Proposed Watershed Calculations*)

ii. Cost impacts on system users

The City will issue Open Space Bonds to fund the construction of the Hoboken South West Park project. The debt service which will repay the bonds is anticipated to come from the City's municipal Open Space Trust Fund which collects $0.01 per $100.00 of assessed value.

iii. Institutional and management arrangements necessary for successful implementation

All service agreements necessary for the implementation of the Hoboken South West Park project will occur through a standard permitting process in collaboration with the agencies involved (e.g. PSEG, NHSA, etc.).

F. Stormwater management facilities:

i. Consistency with the appropriate Water Quality Management Plans in accordance with the provisions of N.J.A.C. 7:15

The green stormwater infrastructure (e.g. rain gardens, bioswales, permeable pavers, subsurface detention basins) implemented on site will be consistent with the New Jersey Water Quality Management Plan (N.J.A.C. 7:15).

As previously stated, the project is considered a "major development" as defined by the Stormwater Management Regulations issued by the NJDEP. However, stormwater quality treatment is not required for this project because impervious coverage is being reduced by 0.53 acres. The lawn areas, rain gardens, dog run and play areas of the park do not receive vehicular traffic and therefore per NJDEP regulations, do not need to be treated for Total Suspended Solids (TSS) removal. However, the bioswales, rain gardens and permeable pavers will provide varying degrees of TSS removal rates per the New Jersey Stormwater Best Management Practices Manual and consistent with the New Jersey Water Quality Management Plan (N.J.A.C. 7:15).

The NJDEP Stormwater Regulations (N.J.A.C. 7:8) do not require the implementation of a groundwater recharge system because the site is located in an urban PA-1 Zone.

ii. Best Management Practices

As mentioned above, the Hoboken South West Park will include stormwater infrastructure facilities consistent with the New Jersey Stormwater Best Management Practices Manual. These Best Management Practices include the following elements:

Permeable Pavers:

All of the pavements within the park, including the park mall on Observer Highway, will be permeable, so that the first rainfall will be absorbed within the pavement.

Rain gardens:

The paved areas within the park will be pitched towards the two rain gardens, so the next increment of rain will be held above the surface of the rain gardens and slowly absorbed. The rain gardens are to feature low guards that allow water through yet protect the planting beds.

Bioswales:

The bioswales have been designed to partially treat water quality and attenuate flooding potential by reducing the amount of stormwater runoff leaving the site.

The TSS removal rates of these Best Management Practices are summarized below:

TABLE 3 – WATER QUALITY

Best Management Practice	TSS Removal Rate (%)
Bioswales	90%
Rain Garden	90%
Permeable Pavers	80%

G. Remedial action activities

i. Applicability of ISRA or Underground Storage Tank programs

Langan Engineering & Environmental Services is completing remediation pursuant to the Site Remediation Program. The present operations are neither ISRA applicable nor related to UST regulations. The NJDEP SRP PI Number is 585028. The NJEMS Number is 463682. The project is facilitated via the NJDEP Licensed Site Remediation Program (LSRP). The designated LSRP is Eric Meyer and as such, there is no NJDEP case manager assigned for this project.

ii. Department approvals issued pursuant to N.J.A.C. 7:26E-6.1(b)1

The remedial actions which will be implemented at the Hoboken South West Park project site have been determined in accordance with the NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E)

A Remedial Action Work Plan (RAWP) will be submitted to the NJDEP 60 days in advance of onsite operations pursuant to N.J.A.C. 7:26C-2.2.

III. Cultural Resource Assessment
Level 1 Environmental Review
(N.J.A.C. 7:22-10.8)

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B. Environmental characteristics of the planning area **3**
C. Presence of Cultural Resource Material **3**

A. Project description

(See I. Environmental Assessment *C.ii Cultural Resource Features*)

B. Environmental characteristics of the planning area

(See I. Environmental Assessment *C.ii.i Environmental characteristics of the planning area*)

C. Presence of Cultural Resource Material

(See I. Environmental Assessment *C.ii.ii Presence of Cultural Resource material)*

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C. List of Attachments .....

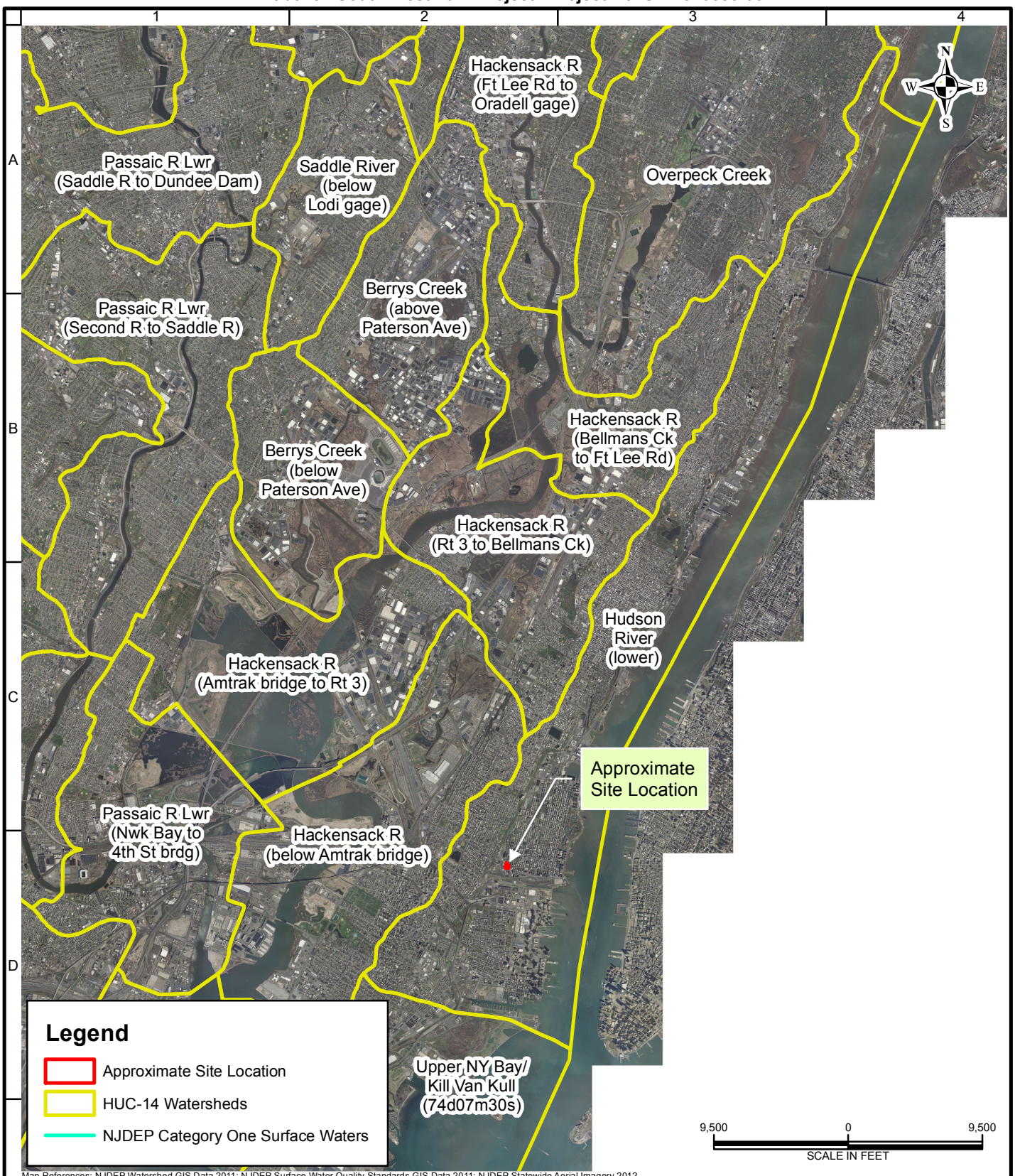
i. Stormwater Management Report, Prepared by Langan Engineering & Environmental Services, 02/23/2015 19-142

ii. Remedial Action Work Plan (Draft), Prepared by Langan Engineering & Environmental Services, 12/15/2014 144-1379

iii. Project Cost Estimates (50% Design Development), Prepared by Toscano Clements Taylor Cost Consultants, 02/09/2015 1381-1388

iv. NJDEP Threatened and Endangered Species Habitat Correspondence, Prepared by Langan Engineering & Environmental Services, 12/04/2014 1390-1394

Figure 1 - HUC Watershed Map
Hoboken South West Park Project / Project No. SRF 340635-05



Map References: NJDEP Watershed GIS Data 2011; NJDEP Surface Water Quality Standards GIS Data 2011; NJDEP Statewide Aerial Imagery 2012

LANGAN
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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	Drawing Title	Project No.	Figure
HOBOKEN SW BLOCK 12 PARK BLOCK 12, LOTS 1 - 7, 9, 12 - 18 CITY OF HOBOKEN HUDSON COUNTY NEW JERSEY	HUC-14 WATERSHED MAP	100497601	8
		Date 2/3/2015	
		Scale 1"= 9,500'	
		Drawn By MWen	

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Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\Figure 8 - HUC-14.mxd

Figure 2 - North Hudson Sewage Authority Service Map
Hoboken South West Park Project / Project No. SRF 340635-05

North Hudson Sewerage Authority

Hoboken, Union City, Weehawken, and West New York
New Jersey

North Hudson Service Area
Sewer System - Sheet 1 of 3

N

Scale 1:3000
Scale: 1 in = 250 ft

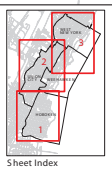
0 250 500 750 1000 Feet

Mapping Sources:
Base Map: Planimetric features derived from rectified Aerial Photography, flown June 28, 1995.
Sewer System: City of Hoboken Sewer Atlas, Boswell Engineering, 1995.
Township of Weekawken and City of Union City Sewer Atlas, Boswell Engineering, 1969.
Town of West New York Sewer Atlas.

SEWER SYSTEM
- Gravity
- Interceptor
- Outfall
- Force Main
- Inverted Siphon
- Other

PLANIMETRIC FEATURES
- Road Edges
- City Boundaries
- Drainage Basins
- Surface Water

- Manhole, field verified
- Manhole, unverified
- Pump Station
- Flushing Chamber
- Regulator



Sheet Index

CH2MHILL

Figure 3 - USGS Site Location Map
Hoboken South West Park Project / Project No. SRF 340635-05

Map References: USGS Topographic Quadrangle Jersey City C: 1967 R: 1981

LANGAN River Drive Center 1, 619 River Drive Elmwood Park, NJ 07407-1338 T: 201.794.6900 F: 201.794.0366 www.langan.com Langan Engineering & Environmental Services, Inc. Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan International LLC Collectively known as Langan NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400	Project SW PARK BLOCK 12, LOTS 1 - 7, 9, 12 - 18 CITY OF HOBOKEN HUDSON COUNTY NEW JERSEY	Drawing Title USGS SITE LOCATION MAP	Project No. 100497601 Date 11/17/2014 Scale 1"= 1,000' Drawn By MWen	Figure 1

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Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\Figure 1 - USGS.mxd

Figure 4 - Site Location Map
Hoboken South West Park Project / Project No. SRF 340635-05

Figure 5 - NJDEP Threatened and Endangered Species Habitat Map
Hoboken South West Park Project / Project No. SRF 340635-05

Map References: NJDEP Landscape Project Habitat Data - Piedmont Plains region, version 3.1, 2012; NJDEP Statewide Aerial Imagery 2012

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Project	Drawing Title	Project No.	Figure
HOBOKEN SW BLOCK 12 PARK BLOCK 12, LOTS 1 - 7, 9, 12 - 18 CITY OF HOBOKEN HUDSON COUNTY NEW JERSEY	NJDEP THREATENED AND ENDANGERED SPECIES HABITAT MAP	100497601	10
		Date: 2/3/2015	
		Scale: 1"= 1,500'	
		Drawn By: MWen	

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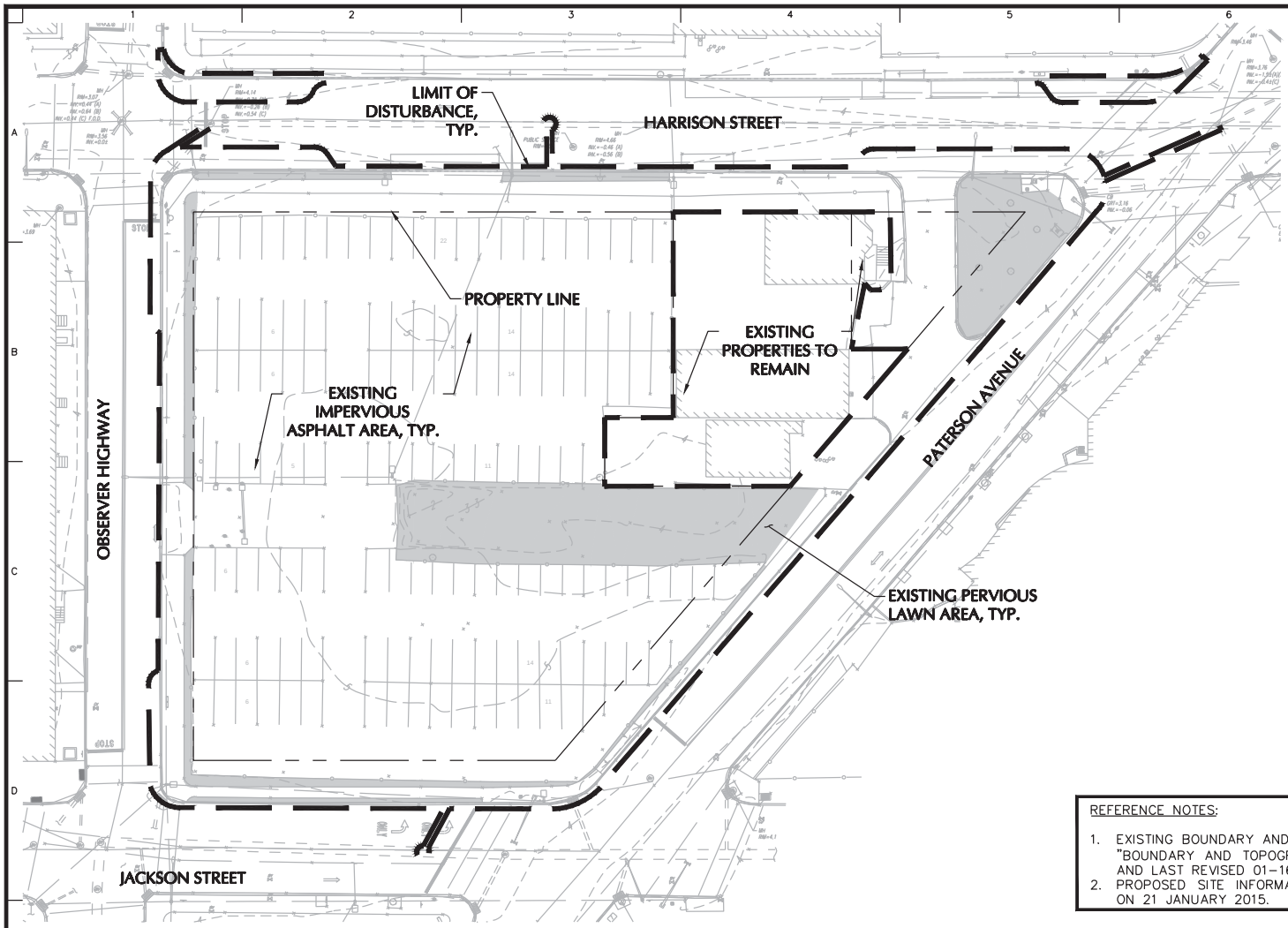
Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\Figure 10 - T&E.mxd

1 - Existing Coverage Plan
Hoboken South West Park Project / Project No. SRF 340635-05



LEGEND

DESCRIPTION	SYMBOL
LIMIT OF DISTURBANCE	
IMPERVIOUS AREA	
PERVIOUS AREA	

COVERAGE	IMPERVIOUS	PERVIOUS	TOTAL
ASPHALT AREA	1.06 AC	–	1.06 AC
LAWN AREA	–	0.18 AC	0.18 AC
TOTAL	1.06 AC	0.18 AC	1.24 AC

40 0 10 25 40
SCALE IN FEET

REFERENCE NOTES:

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A PLAN TITLED "BOUNDARY AND TOPOGRAPHIC SURVEY 57 HARRISON STREET," DATED 11–27–2013 AND LAST REVISED 01–16–15.
2. PROPOSED SITE INFORMATION OBTAINED ELECTRONICALLY FROM STARR WHITEHOUSE ON 21 JANUARY 2015.

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Langan International LLC
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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
SOUTHWEST PARK
BLOCK 12, LOTS 1-7, 9, 12-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

Drawing Title
EXISTING COVERAGE PLAN

Project No. 100497601
Date 19 FEBRUARY 2015
Scale 1" = 40'
Drawn By ENS
Checked By SD
Submission Date

FIG. 1

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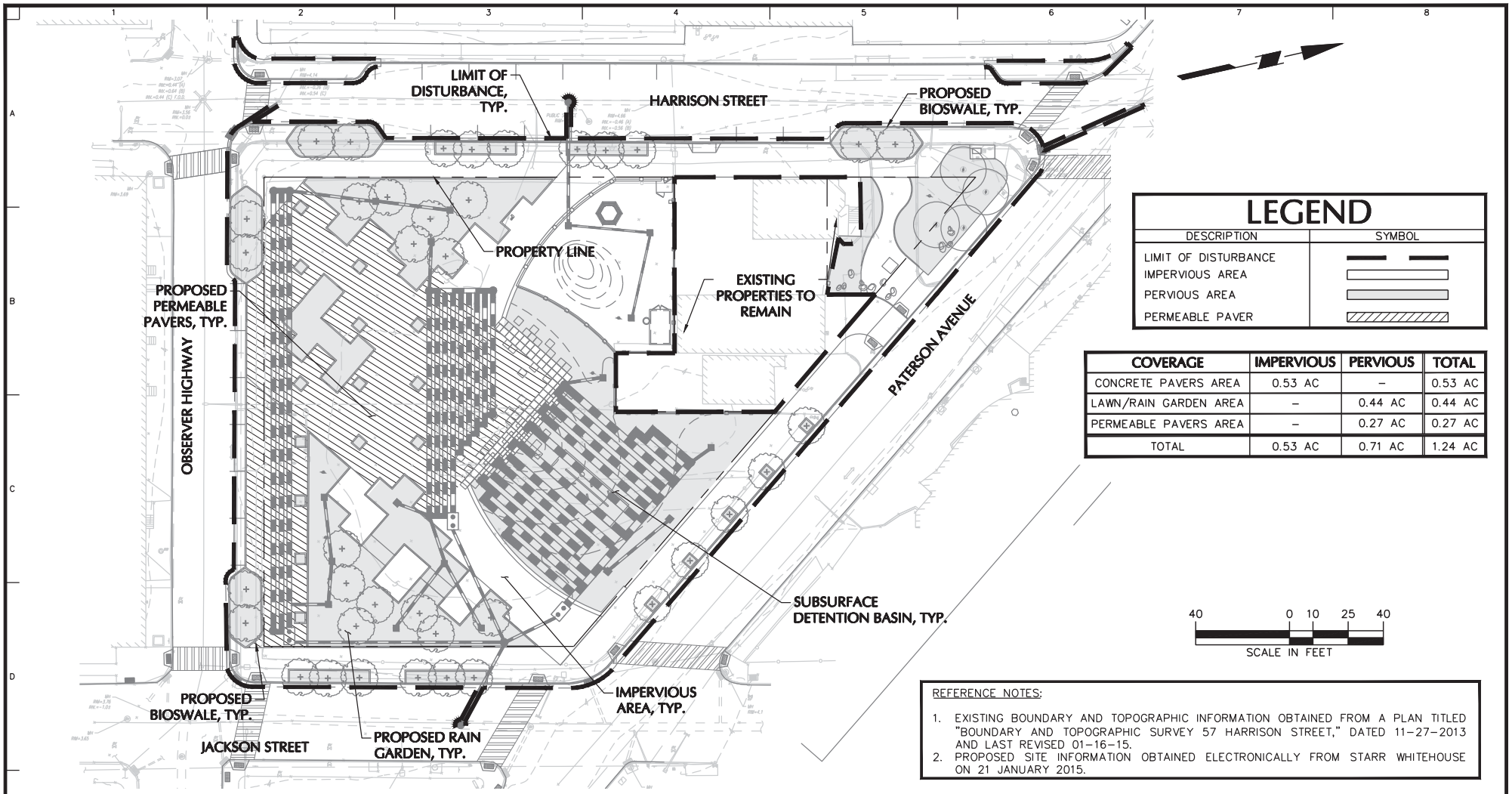
Filename: \\langan.com\data\EP\data6\100497601\Cadd Data - 100497601\SheetFiles\Stormwater Memo Figure 1 - Existing Coverage.dwg Date: 2/19/2015 Time: 07:39 User: esudman Style Table: Langan.stb Layout: FIG 1

2 - Proposed Coverage Plan
Hoboken South West Park Project / Project No. SRF 340635-05



LEGEND

DESCRIPTION	SYMBOL
LIMIT OF DISTURBANCE	
IMPERVIOUS AREA	
PERVIOUS AREA	
PERMEABLE PAVER	

COVERAGE	IMPERVIOUS	PERVIOUS	TOTAL
CONCRETE PAVERS AREA	0.53 AC	–	0.53 AC
LAWN/RAIN GARDEN AREA	–	0.44 AC	0.44 AC
PERMEABLE PAVERS AREA	–	0.27 AC	0.27 AC
TOTAL	0.53 AC	0.71 AC	1.24 AC

REFERENCE NOTES:

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A PLAN TITLED "BOUNDARY AND TOPOGRAPHIC SURVEY 57 HARRISON STREET," DATED 11-27-2013 AND LAST REVISED 01-16-15.
2. PROPOSED SITE INFORMATION OBTAINED ELECTRONICALLY FROM STARR WHITEHOUSE ON 21 JANUARY 2015.

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Langan CT, Inc.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project: SOUTHWEST PARK
BLOCK 12, LOTS 1-7, 9, 12-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

Drawing Title: PROPOSED COVERAGE PLAN

Project No. 100497601
Date 19 FEBRUARY 2015
Scale 1" = 40'
Drawn By ENS
Checked By SD
Submission Date

FIG. 2

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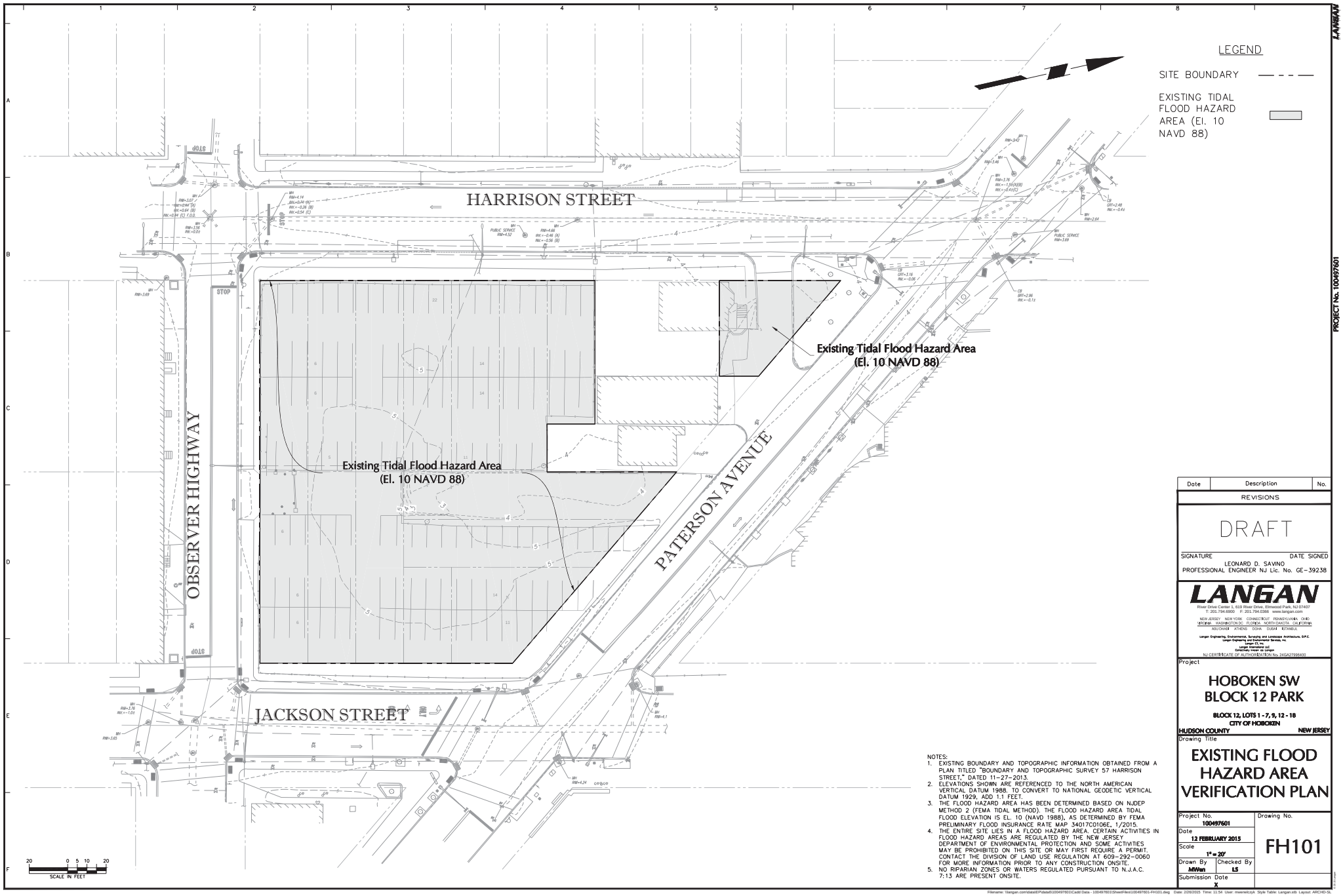
Filename: \\langan.com\data\EP\data6\100497601\Cadd Data - 100497601\SheetFiles\Stormwater Memo Figure 1 - Existing Coverage.dwg Date: 2/19/2015 Time: 07:39 User: esudman Style Table: Langan.stb Layout: FIG 2

FH101 - Existing Flood Hazard Area Verification Plan
Hoboken South West Park Project / Project No. SRF 340635-05



NOTES:
1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A PLAN TITLED "BOUNDARY AND TOPOGRAPHIC SURVEY 57 HARRISON STREET," DATED 11-27-2013.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988. TO CONVERT TO NATIONAL GEODETIC VERTICAL DATUM 1929, ADD 1.1 FEET.
3. THE FLOOD HAZARD AREA HAS BEEN DETERMINED BASED ON NJDEP METHOD 2 (FEMA TIDAL METHOD). THE FLOOD HAZARD AREA TIDAL FLOOD ELEVATION IS EL. 10 (NAVD 1988), AS DETERMINED BY FEMA PRELIMINARY FLOOD INSURANCE RATE MAP 34017C0106E, 1/2015.
4. THE ENTIRE SITE LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT 609-292-0060 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
5. NO RIPARIAN ZONES OR WATERS REGULATED PURSUANT TO N.J.A.C. 7:13 ARE PRESENT ONSITE.

Date	Description	No.
REVISIONS		

DRAFT

SIGNATURE DATE SIGNED
LEONARD D. SAVINO
PROFESSIONAL ENGINEER NJ Lic. No. GE-39238

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Project
HOBOKEN SW BLOCK 12 PARK
BLOCK 12, LOTS 1 - 7, 9, 12 - 18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

Drawing Title
EXISTING FLOOD HAZARD AREA VERIFICATION PLAN

Project No. 100497601		Drawing No. FH101
Date 12 FEBRUARY 2015		
Scale 1" = 20'		
Drawn By MWan	Checked By LS	
Submission X	Date	

LANGAN
PROJECT No. 100497601

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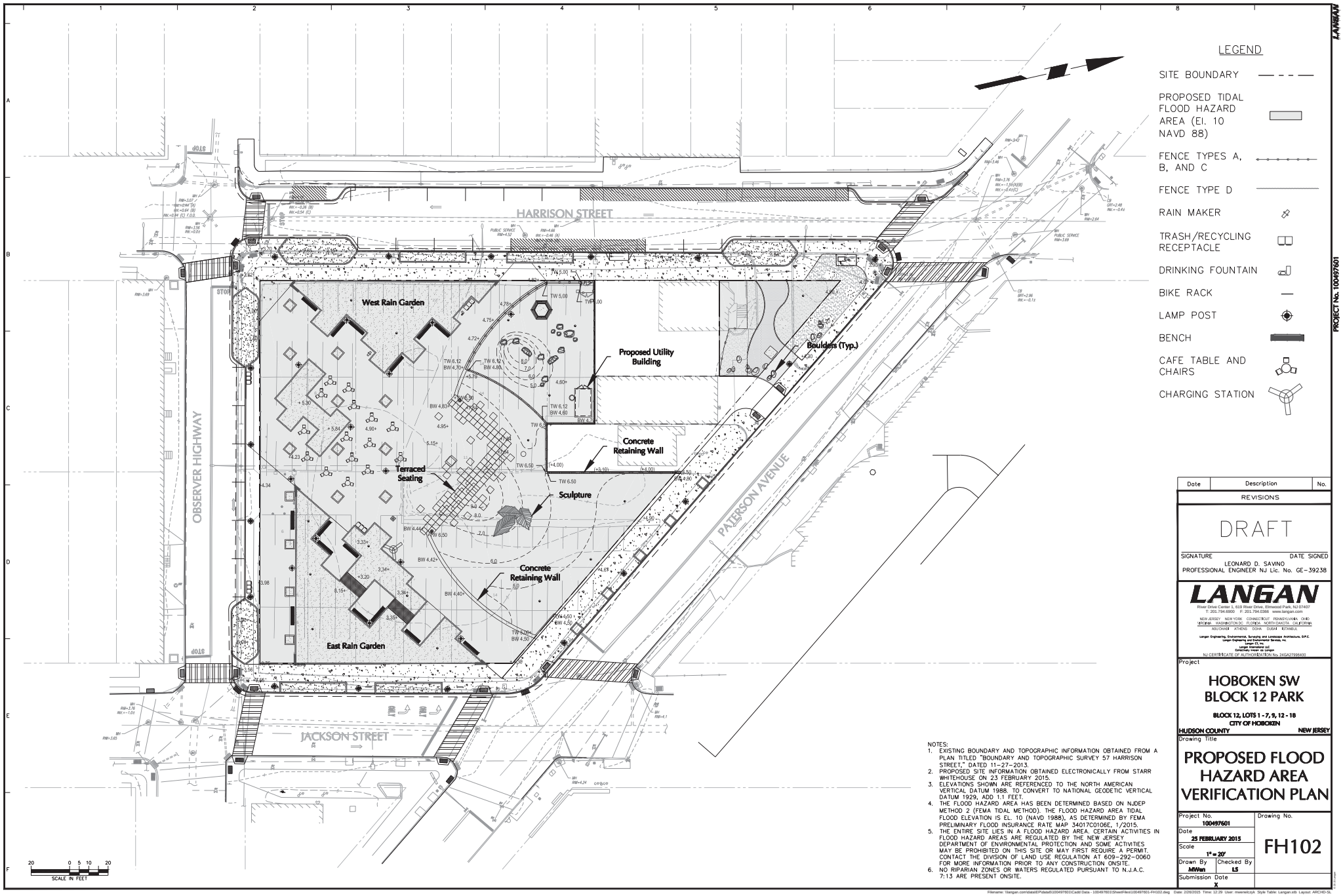
FH102 - Proposed Flood Hazard Area Verification Plan
Hoboken South West Park Project / Project No. SRF 340635-05



NOTES:
1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A PLAN TITLED "BOUNDARY AND TOPOGRAPHIC SURVEY 57 HARRISON STREET," DATED 11-27-2013.
2. PROPOSED SITE INFORMATION OBTAINED ELECTRONICALLY FROM STARR WHITEHOUSE ON 23 FEBRUARY 2015.
3. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988. TO CONVERT TO NATIONAL GEODETIC VERTICAL DATUM 1929, ADD 1.1 FEET.
4. THE FLOOD HAZARD AREA HAS BEEN DETERMINED BASED ON NJDEP METHOD 2 (FEMA TIDAL METHOD). THE FLOOD HAZARD AREA TIDAL FLOOD ELEVATION IS EL. 10 (NAVD 1988), AS DETERMINED BY FEMA PRELIMINARY FLOOD INSURANCE RATE MAP 34017C0106E, 1/2015.
5. THE ENTIRE SITE LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT 609-292-0060 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
6. NO RIPARIAN ZONES OR WATERS REGULATED PURSUANT TO N.J.A.C. 7:13 ARE PRESENT ONSITE.

Date	Description	No.

REVISIONS

DRAFT

SIGNATURE DATE SIGNED
LEONARD D. SAVINO
PROFESSIONAL ENGINEER NJ Lic. No. GE-39238

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Construction Services Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
HOBOKEN SW BLOCK 12 PARK
BLOCK 12, LOTS 1 - 7, 9, 12 - 18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

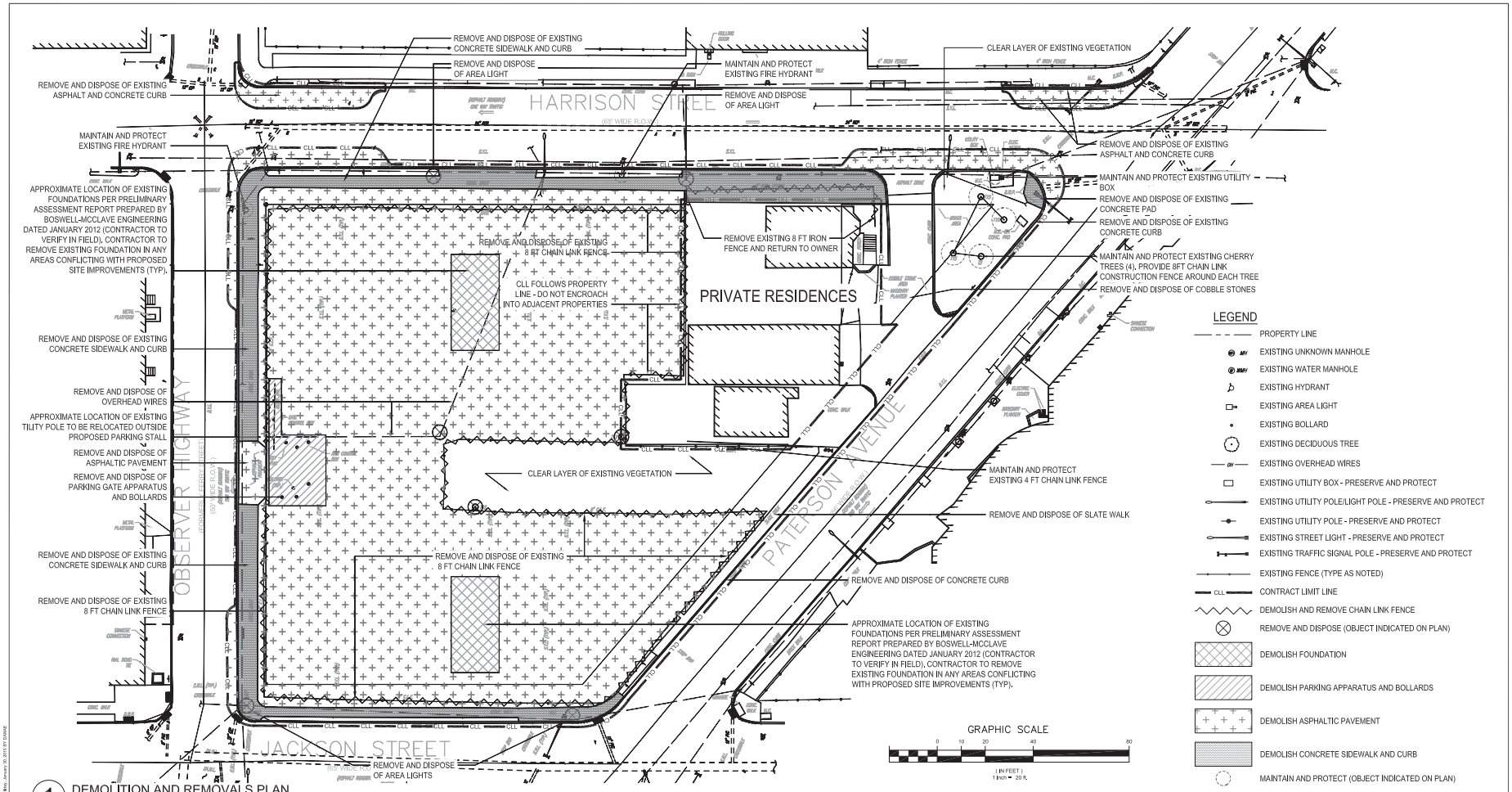
Drawing Title
PROPOSED FLOOD HAZARD AREA VERIFICATION PLAN

Project No.	Drawing No.
100497601	FH102
Date: 25 FEBRUARY 2015	
Scale: 1" = 20'	
Drawn By: MWan / Checked By: LS	
Submission: X / Date:	

PROJECT No. 100497601

Filename: \\langan.com\data\EPA\data\100497601\Cadd Data - 100497601\SheetFiles\100497601-FH102.dwg Date: 2/26/2015 Time: 12:29 User: mwarnock Style Table: Langan.stb Layout: ARCHD-SL

V-101 - Demolition and Removals Plan
Hoboken South West Park Project / Project No. SRF 340635-05



1 DEMOLITION AND REMOVALS PLAN

SCALE: 1" = 20'-0"

NOTES:

1. ALL EXISTING UTILITY AND TOPOGRAPHIC DATA TAKEN FROM SURVEY BY CONTROL POINT ASSOCIATES, INC. 35 TECHNOLOGY DRIVE WARREN, NJ 07059 TEL: 908.668.0099
2. SITE DEMOLITION TO CONSIST OF THE REMOVAL OF EXISTING SITE FEATURES, INCLUDING BUT NOT LIMITED TO, ASPHALT, CONCRETE CURB, CONCRETE SIDEWALK, LIGHT FIXTURES, CHAIN LINK FENCE, GATES AND BOLLARDS.
3. PROTECT AND MAINTAIN EXISTING FIRE HYDRANTS, STREET SIGNS, STREET LIGHTS, TRAFFIC SIGN POLES, MANHOLE AND UTILITY COVERS, ELECTRIC METERS, UTILITY BOXES AND UTILITY POLES.
4. BASED ON THE PRELIMINARY ASSESSMENT REPORT PERFORMED BY BOSWELL McCLAVE ENGINEERING, DATED JANUARY 2012, EXISTING FOUNDATIONS MAY BE ENCOUNTERED DURING EXCAVATION ACTIVITIES. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF EXISTING FOUNDATIONS IN ANY AREAS CONFLICTING WITH THE PROPOSED SITE IMPROVEMENTS.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS, BOTH ABOVE AND BELOW THE SURFACE, PRIOR TO COMMENCING WORK, ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER AND THE CITY OF HOBOKEN IN WRITING PRIOR TO COMMENCING WORK.
6. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THIS WORK. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH THE APPLICABLE AGENCIES, UTILITY COMPANIES, AND/OR SUB-CONTRACTORS.
7. IT IS MANDATORY, AS PER N.J.S.A. 48:2-73, THE CONTRACTOR SHALL NOTIFY NEW JERSEY ONE-CALL DAMAGE PREVENTION SYSTEM PRIOR TO EXCAVATION.
8. THE CONTRACTOR SHALL USE CARE DURING CONSTRUCTION TO AVOID DISTURBING OR DAMAGING UTILITIES, FACILITIES AND PAVEMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE TO AND/OR RESTORE ANY INTERRUPTION TO ANY UTILITY SERVICE THAT MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OR EQUIPMENT, AT THE CONTRACTOR'S EXPENSE, WITH NO ADDITIONAL EXPENSE TO THE CITY OF HOBOKEN. SIMILARLY, ANY DAMAGE TO FACILITIES OR PAVEMENTS WILL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE RESTORED TO THE SATISFACTION OF THE RESIDENT ENGINEER, AT NO ADDITIONAL COST TO THE CITY OF HOBOKEN.
9. ALL EXISTING SEWER, GAS, WATER AND ELECTRIC UTILITY LINES, AS WELL AS STRUCTURES WITHIN THE CONTRACT AREA SHALL REMAIN. UNLESS REMOVAL OF SAME IS SPECIFICALLY NOTED, ALL STORM DRAINAGE PIPES TO BE ABANDONED OR REMOVED ARE NOTED ON THE PLANS. IF ABANDONED PIPES ARE ENCOUNTERED DURING EXCAVATION, THEN THE CONTRACTOR SHOULD REMOVE PIPE IN AREA OF EXCAVATION AND PLUG AT EACH END OF EXCAVATION. CONTRACTOR SHOULD ENSURE THAT PIPE REALLY IS ABANDONED BEFORE ATTEMPTING THIS OPERATION.
10. THE CONTRACTOR IS TO USE CARE DURING CONSTRUCTION TO AVOID DISTURBING OR DAMAGING ADJACENT ABOVE-GRADE OR SUBGRADE STRUCTURES, FACILITIES, CURBS, PAVEMENTS, AND PERIMETER FENCING. ANY DAMAGE RESULTING FROM THIS WORK WILL BE RESTORED TO THE SATISFACTION OF THE CITY OF HOBOKEN AT THE CONTRACTOR'S EXPENSE.
11. WHERE NEW CONSTRUCTION ABUTS EXISTING PAVEMENTS, CURBS, OR WALLS, THE EXISTING MATERIALS SHALL BE CLEANLY SAWCUT TO PROVIDE A CLEAN, NEAT MATCH AND A SMOOTH, FLUSH TRANSITION, AS DIRECTED BY THE RESIDENT ENGINEER. ALL SAWCUTTING SHALL BE DONE TO NEAT, STRAIGHT AND ACCURATE LINES. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS (TIE ROD AND/OR SLIP JOINT) WHERE OLD AND NEW CURBS MEET.
12. THE CONTRACTOR SHALL REPLACE ANY EXISTING CURBS, FENCING, OR PAVEMENTS THAT WERE INTENDED TO REMAIN BUT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION. IF REPLACEMENT IS NECESSARY, IT SHALL BE DONE AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE CITY OF HOBOKEN AND THE ENGINEER.
13. IN AREAS DESIGNATED FOR EXCAVATION, ALL EXISTING PAVEMENTS, CURBS AND CATCH BASINS SHALL BE REMOVED ACCORDING TO THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE RESIDENT ENGINEER.
14. CONTRACTOR SHALL REMOVE ALL FOOTINGS AND OTHER BELOW-GRADE STRUCTURES CONFLICTING WITH THE PROPOSED SITE IMPROVEMENTS AND BACKFILL WITH SUITABLE FILL MATERIAL TO THE SATISFACTION OF THE ENGINEER.
15. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS AND MATERIALS REMOVED AND NOT SALVAGED, INCLUDING ALL EXCAVATED MATERIAL, OFF-SITE AND IN A LEGAL MANNER.
16. CONTRACTOR SHALL DE-ENERGIZE AND REMOVE EXISTING LIGHT POLES ALONG WITH ASSOCIATED, POLE BASES, CONDUITS, SUPPORTS FEEDERS, ETC, AS SHOW ON THE DRAWINGS, REFER TO CIVIL LANDSCAPE DRAWING FOR BACKFILL.
17. CONTRACTOR SHALL DE-ENERGIZED AND DISCONNECT AT THE SOURCE OF POWER EXISTING FEEDERS, CUT AND CAP AT CONVENIENT LOCATION AND LEAVE REMAINING OF THE EXISTING FEEDER ABANDONED IN PLACE. ALL FEEDERS THAT ARE TO REMAIN SHALL BE RECONNECTED AND RESTORED FOR PROPER OPERATION.
18. CONTRACTOR SHALL PROVIDE NEW OVERHEAD POLE MOUNTED COMMUNICATION AND POWER FEEDERS AS SHOWN ON THE DRAWINGS E-200 SERIES. PROVIDE CLEARANCES AS REQUIRED. EXTEND AND RECONNECT EXISTING TO REMAIN COMMUNICATION LINES.
19. THIS CONTRACTOR SHALL DO ALL CUTTING AND PATCHING WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISHES, AND SHALL ACCURATELY MATCH, ALL SURROUNDING CONSTRUCTION.
20. ANY MATERIALS PROPOSED FOR EXPORT (E.G. SOIL, TOPSOIL, ASPHALT, CONCRETE, ETC.) MUST BE DONE SO IN ACCORDANCE WITH NJDEP REQUIREMENTS. THE NJDEP REQUIREMENTS INCLUDE APPROPRIATE MATERIAL SAMPLING (IF REQUIRED), CHARACTERIZATION, AND OFF SITE MANAGEMENT OF MATERIAL. THE OFF SITE MANAGEMENT MAY INCLUDE MATERIAL RECYCLING REUSE, AND OR DISPOSAL AT APPROPRIATELY CERTIFIED/LICENSED FACILITIES. SAID OFF-SITE MATERIAL MANAGEMENT IS ASSUMED TO INCLUDE ONLY NON-HAZARDOUS MATERIALS, AND IS REQUIRED TO BE DOCUMENTED VIA TRUCKING TICKETS, MANIFESTS, AND ACCEPTANCE FACILITY DOCUMENTATION. SAID DOCUMENTATION FOR EACH MATERIAL TYPE PROPOSED FOR EXPORTATION BE PROVIDED15 BUSINESS DAYS PRIOR TO PROPOSED EXPORT SO AS APPROPRIATE REVIEW, COMMENT AND/OR APPROVAL OF THE DISPOSAL FACILITY CAN BE PROVIDED. NO MATERIAL SHOULD BE EXPORTED OFF SITE UNTIL APPROVAL FROM THE PROJECT LSRP IS PROVIDED.

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PROFESSIONAL SEAL

REVISIONS

NO.	DATE	DESCRIPTION
1	12/17/2014	SCHEMATIC DESIGN
2	01/30/2015	DESIGN DEVELOPMENT

SHEET TITLE

DEMOLITION AND REMOVALS PLAN

DRAWN BY	ZZ
CHECKED BY	WA
PROJECT NO.	14021
ISSUE DATE	01/30/2015
SCALE	1"=20'-0"
SHEET NO.	2 OF 34 V-101

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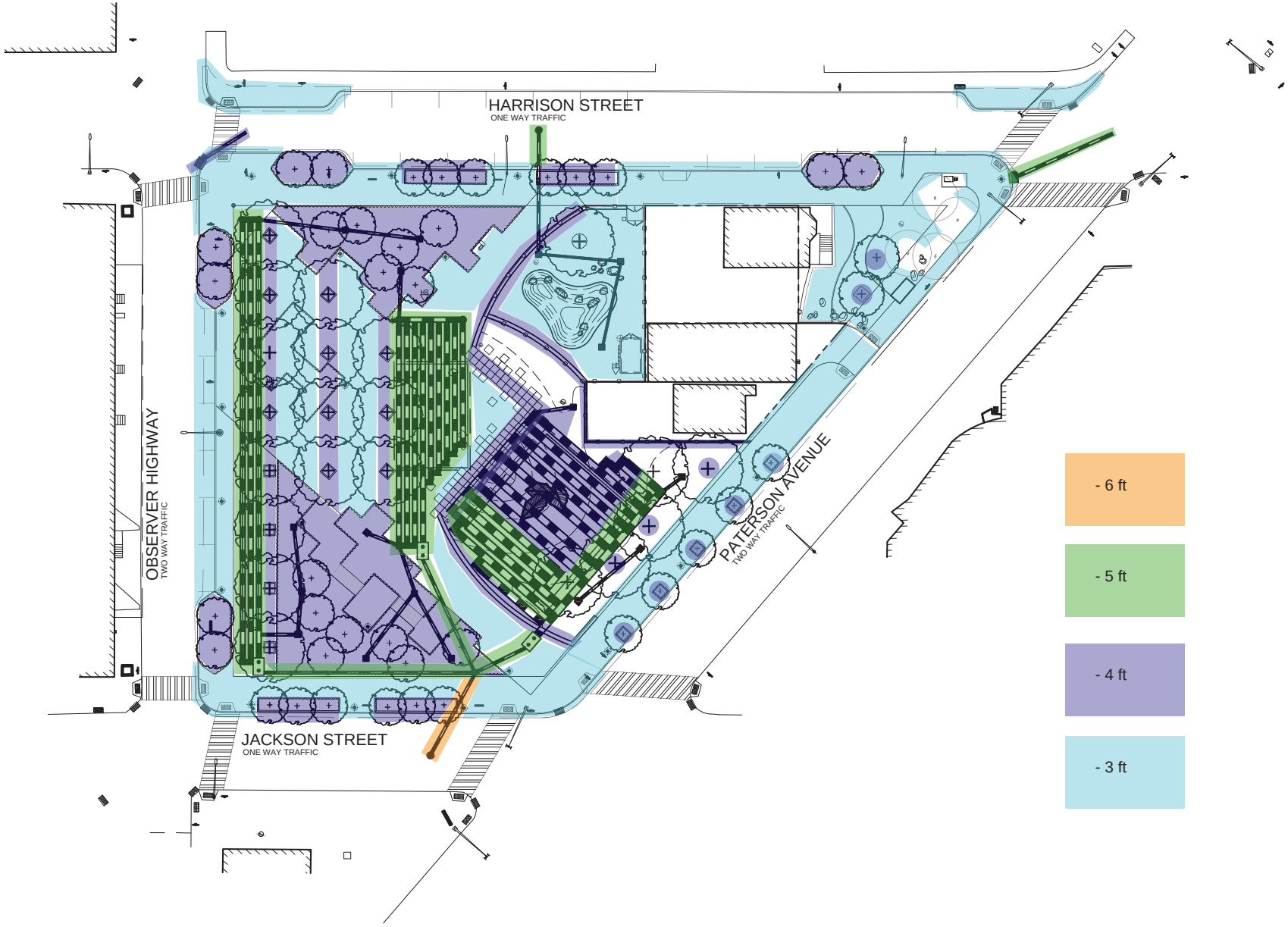
3 - Excavations Plan
Hoboken South West Park Project / Project No. SRF 340635-05



PROJECT HOBOKEN SW BLOCK 12 PARK
SKETCH TITLE EXCAVATION DEPTH

DRAWN BY WA
CHECK BY WA

PROJECT NO. 14021
DATE 03-06-2015
SCALE 1"=40'-0"
SHEET NO. # OF ##

SK-01

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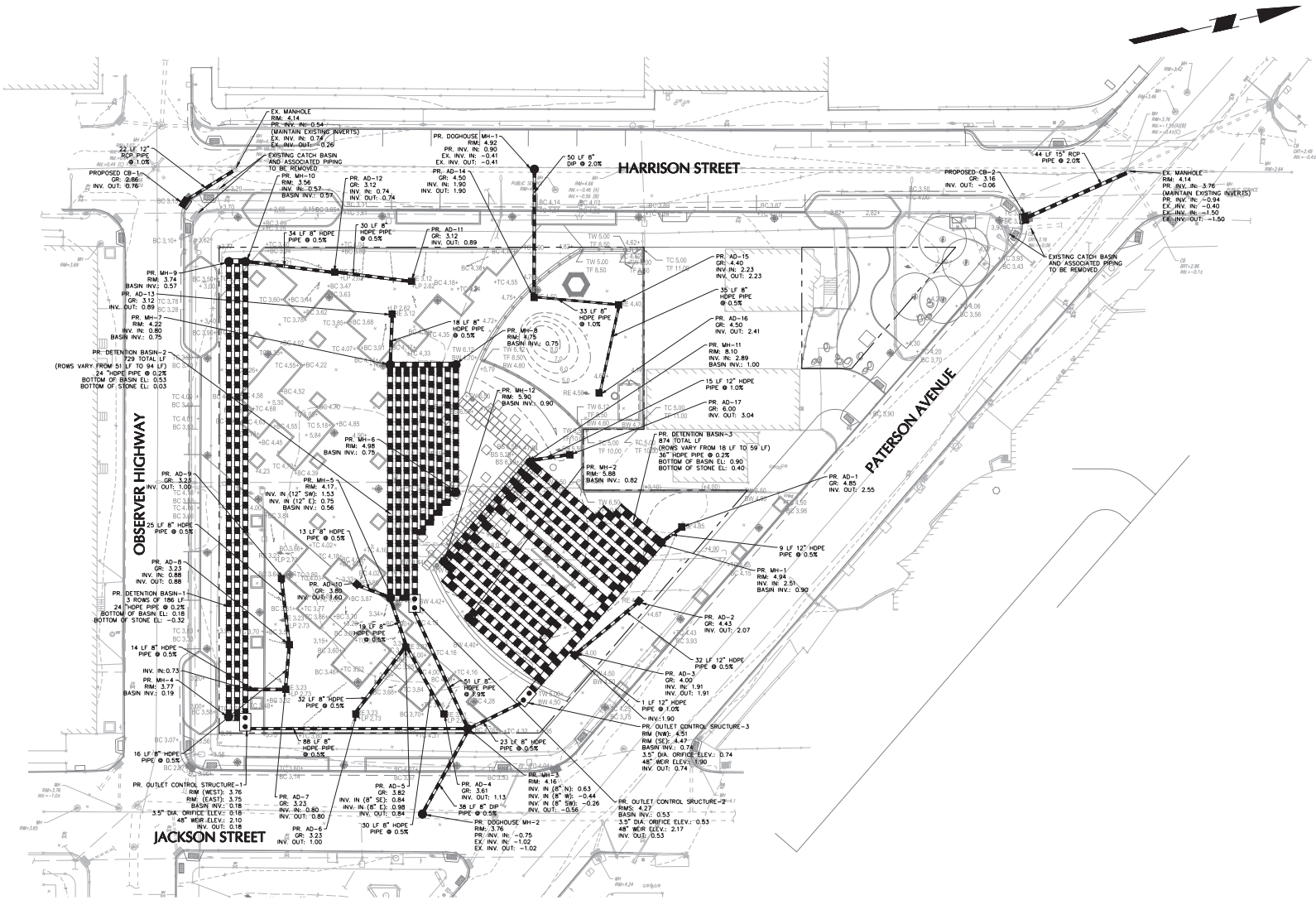
CG101 - Site Drainage Plan
Hoboken South West Park Project / Project No. SRF 340635-05



REFERENCE NOTES:

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A PLAN TITLED "BOUNDARY AND TOPOGRAPHIC SURVEY 57 HARRISON STREET," DATED 11-27-2013 AND LAST REVISED 01-16-15.
2. PROPOSED SITE INFORMATION OBTAINED ELECTRONICALLY FROM STARR WHITEHOUSE ON 21 JANUARY 2015.

LEGEND

	EXISTING	PROPOSED
CONTOUR	13	13
STORM MANHOLE		
CATCH BASIN		
STORM SEWER PIPE		
PROPERTY LINE		

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1	12/17/2014	SCHEMATIC DESIGN
2	01/30/2015	DESIGN DEVELOPMENT

SHEET TITLE

SITE DRAINAGE PLAN

DRAWN BY	ENS
CHECKED BY	SD
PROJECT NO.	14021
ISSUE DATE	12/30/2015
SCALE	1"=20'
SHEET NO.	CG101

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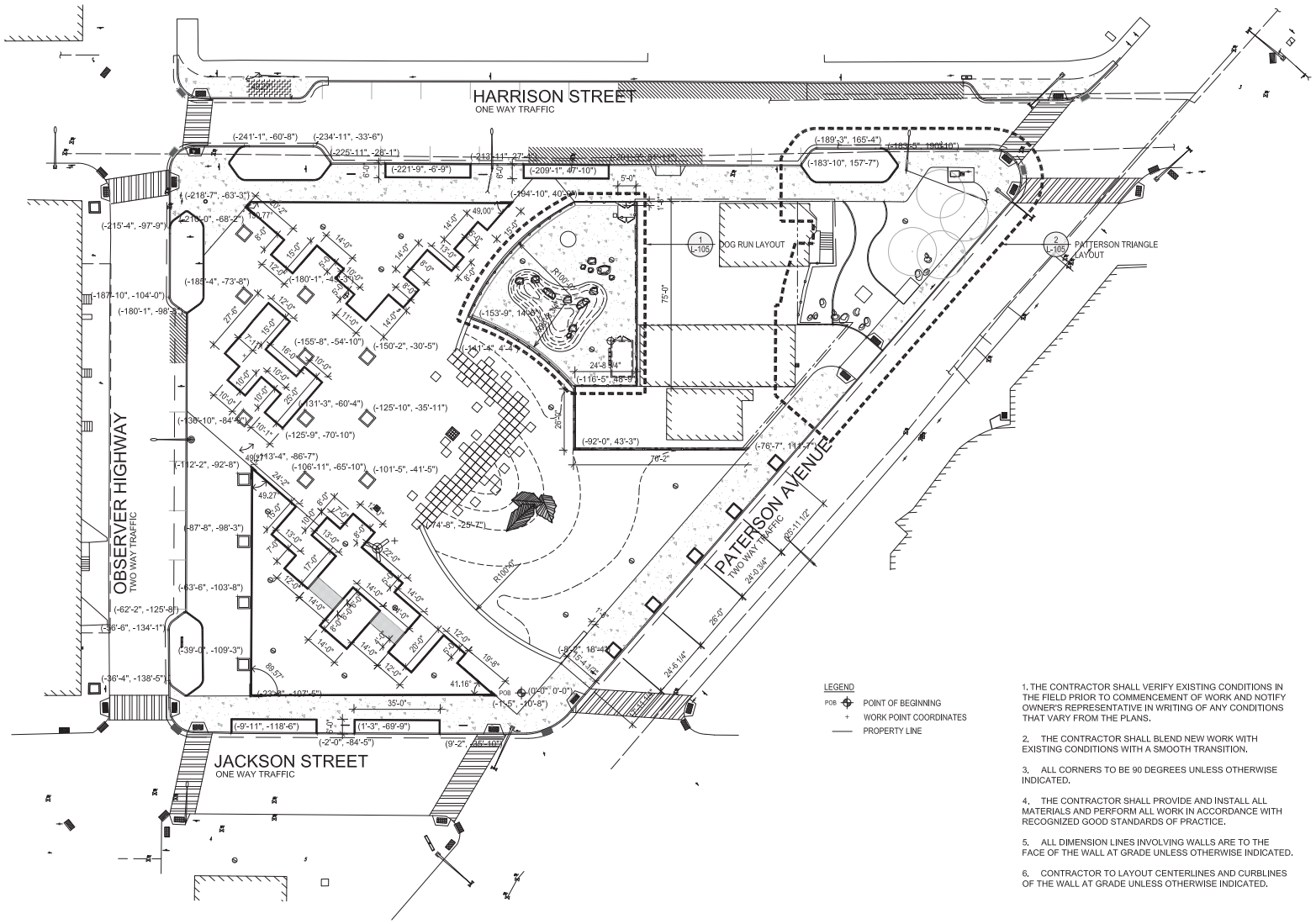
L-101 - Site Layout Plan
Hoboken South West Park Project / Project No. SRF 340635-05



LEGEND

- POB — POINT OF BEGINNING
- + — WORK POINT COORDINATES
- —— PROPERTY LINE

1. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY OWNER'S REPRESENTATIVE IN WRITING OF ANY CONDITIONS THAT VARY FROM THE PLANS.

2. THE CONTRACTOR SHALL BLEND NEW WORK WITH EXISTING CONDITIONS WITH A SMOOTH TRANSITION.

3. ALL CORNERS TO BE 90 DEGREES UNLESS OTHERWISE INDICATED.

4. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARDS OF PRACTICE.

5. ALL DIMENSION LINES INVOLVING WALLS ARE TO THE FACE OF THE WALL AT GRADE UNLESS OTHERWISE INDICATED.

6. CONTRACTOR TO LAYOUT CENTERLINES AND CURBLINES OF THE WALL AT GRADE UNLESS OTHERWISE INDICATED.

1 SITE LAYOUT PLAN

SCALE: 1"=20'-0"

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NO.	DATE	DESCRIPTION
1	12/17/2014	SCHEMATIC DESIGN
2	01/30/2015	DESIGN DEVELOPMENT

SHEET TITLE

SITE LAYOUT PLAN

DRAWN BY	JGP
CHECKED BY	WA
PROJECT NO.	14021
ISSUE DATE	01/30/2015
SCALE	1" = 20'-0"
SHEET NO.	8 OF 34 L-101

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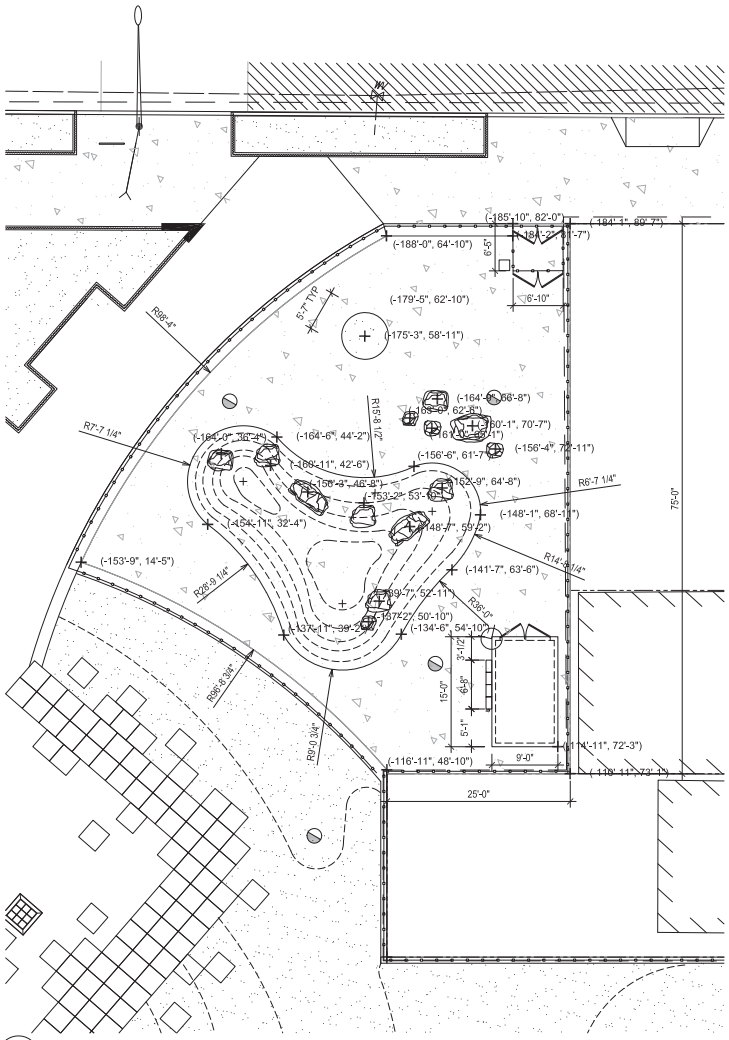
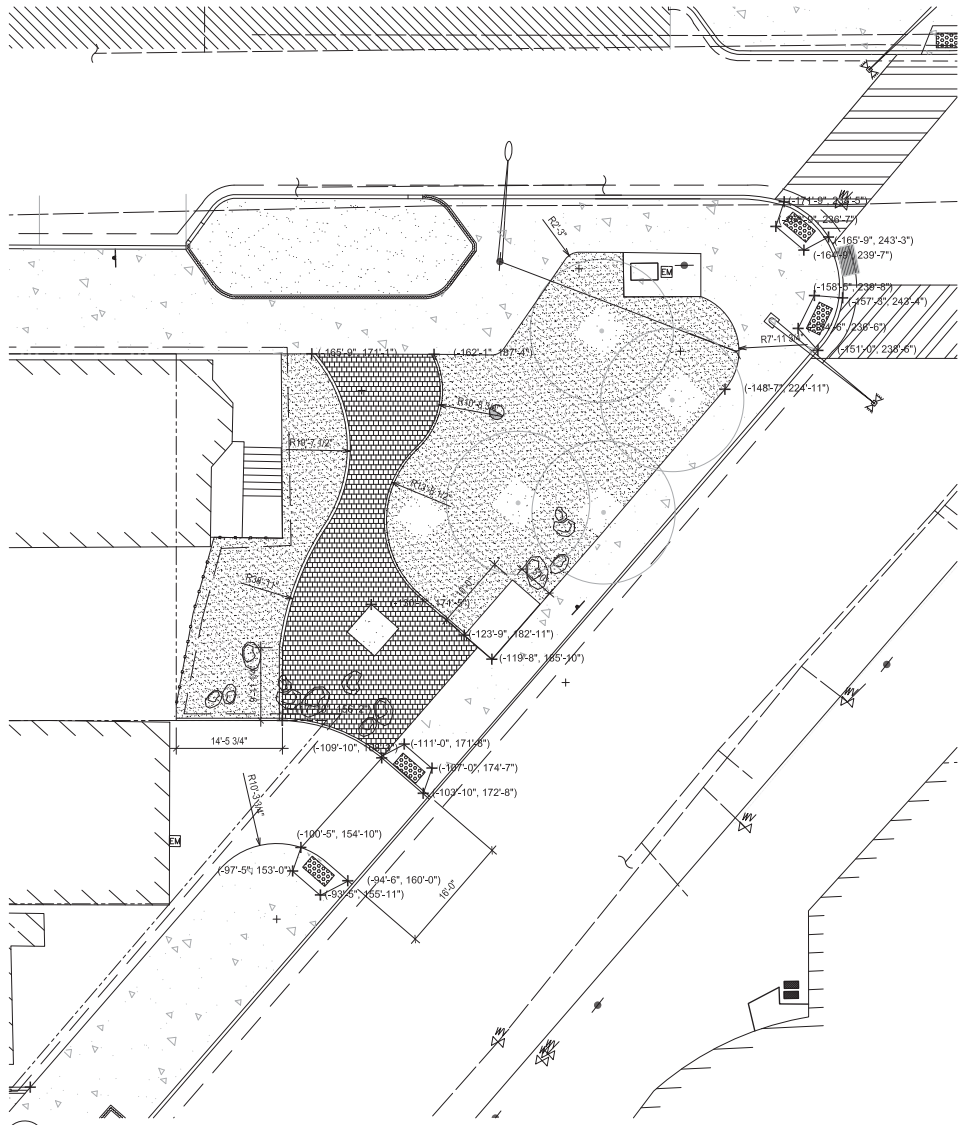
L-105 Site Layout Enlargements
Hoboken South West Park Project / Project No. SRF 340635-05



1 DOG RUN

SCALE: 1/8"=1'-0"



2 PATTERSON TRIANGLE

SCALE: 1/8"=1'-0"

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1	12/17/2014	SCHEMATIC DESIGN
2	01/30/2015	DESIGN DEVELOPMENT

SHEET TITLE

LAYOUT ENLARGEMENTS

DRAWN BY	JGP
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PROJECT NO.	14021
ISSUE DATE	01/30/2015
SCALE	1" = 20'-0"
SHEET NO.	12 OF 34 L-105

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L-301 - Planting Schedule and Notes
Hoboken South West Park Project / Project No. SRF 340635-05

PLANT SCHEDULE

	ABV	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NOTES
TREES	AC	8	Amelanchier canadensis	Shadblow Serviceberry	8-10' ht	AS SHOWN	min 3 stems
	BN	13	Betula nigra	River Birch	8-10' ht	AS SHOWN	min 3 stems
	KP	17	Koelreuteria paniculata	Goldenraintree	2-3" cal	AS SHOWN	
	LS	1	Liquidambar styraciflua	Sweetgum	4-5" cal	AS SHOWN	
	PO	5	Platanus occidentalis	American Sycamore	4-5" cal	AS SHOWN	
	PK	2	Prunus serrulata 'Kwanzan'	Kwanzan Cherry	2-3" cal.	AS SHOWN	
	QB	15	Quercus bicolor	Swamp White Oak	4-5" cal	AS SHOWN	
SHRUBS	AA	12	Aronia arbutifolia 'Brilliantissima'	Red Chokeberry	7 gal	4'-0"	18"-24"
	CP	28	Comptonia peregrina	Sweet Fern	TBD	5'-0"	
	FG	14	Fothergilla gardenii	Dwarf Fothergilla	3 gal	3'-0"	18"-24"
	IG	56	Ilex glabra 'Shamrock'	Inkberry	3 gal	3'-0"	18"-24"
	IJ	2	Ilex verticillata 'Jim Dandy'	Winterberry Holly (Male)	7 gal	4'-0"	18"-24"
	IV	19	Ilex verticillata 'Red Sprite'	Winterberry Holly	7 gal	4'-0"	18"-24"
	RA	16	Rhus aromatica 'Gro-Low'	Low Grow Fragrant Sumac	3 gal	4'-0"	12"-15"
PERENNIALS	AR	6	Actaea racemosa 'TBD'	Bugbane	2 gal	4'-0"	
	AV	187	Andropogon virginicus	Broom Sedge	3 gal	2'-0"	
	AL	124	Aster laevis 'Bluebird'	Smooth Aster	2 gal	3'-0"	
	AN	84	Aster novae-angliae 'Purple Dome'	New England Aster	2 gal	1'-6"	
	AsC	50	Astilbe chinensis var. taquetii 'Purple Candles'	Astilbe	2 gal	1'-6"	
	BG	995	Bouteloua gracilis 'blonde ambition'	Blue Grama	3 gal	1'-6"	
	CxP	461	Carex Pensylvanica	Pennsylvania Sedge	1 gal	1'-0"	
	DS	8	Dicentra spectabilis 'Alba'	Bleeding Heart	2 gal	1'-6"	
	EB	584	Echinacea x 'Summer Sky'	Coneflower	1 gal	1'-6"	
	GP	49	Gaultheria procumbens	Wintergreen	1 gal	1'-0"	
	GM	38	Geranium maculatum	Spotted Geranium	1 gal	1'-6"	
	HR	36	Helleborus x 'Royal Heritage Strain'	Hellebore	1 gal	1'-3"	
	IR	47	Iris versicolor	Blue Flag Iris	2 gal	2'-0"	
	JE	112	Juncus effusus	Soft Rush	1 gal	1'-3"	
	LIS	414	Liatris spicata 'Kobold'	Gayfeather	2 gal	1'-0"	
	PV	227	Panicum virgatum 'Heavy Metal'	Switchgrass	3 gal	2'-0"	
	PS	33	Phlox stolonifera 'Blue Ridge'	Creeping Phlox	1 gal	1'-0"	
	PY	32	Polygonatum odoratum 'Variegatum'	Solomon's Seal	1 gal	2'-0"	
	PA	37	Polystichum acrostichoides	Christmas Fern	1 gal	2'-0"	
	SS	290	Schizachyrium scoparum	Little Bluestem	2 gal	2'-0"	
	TC	227	Tiarella cordifolia	Foam Flower	1 gal	1'-3"	
	TF	14	Tricyrtis x formosana 'Samurai'	Toad Lily	2 gal	2'-0"	
VINES	LM	6	Lonicera sempervirens "Major Wheeler'	Trumpet Honeysuckle	3 gal	8'-0"	Trellised
BULBS	CB	60	Camassia 'Blue Candle'	Quamash	n/a	0'-6"	Plant 4" to 6" dp.
	CV	1200	Crocus vernus MIXTURE	Crocus	n/a	2" to 3"	Mix of white, purple, and blue. Plant 2" to 3" dp.
	GE	1200	Galanthus elwesii	Snowdrop	n/a	3" to 4"	Plant 3" dp.
	LA	1000	Leucojum aestivum 'Gravetye Giant'	Summer snowflake	n/a	4" to 6"	Plant 3" to 4" dp.

PLANTING NOTES

1. NO HEAVY EQUIPMENT , MACHINERY OR STOCK PILING OF MATERIAL IS PERMITTED WITHIN THE DRIP LINE OF ALL EXISTING TREES THROUGHOUT THE COURSE OF THE CONTRACT.

2. EXISTING TREES SHALL BE PROTECTED WITH TEMPORARY CHAIN LINK TREE GUARDS AS INDICATED ON THE TREE PROTECTION AND STAGING PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING TREES INCLUDING BUT NOT LIMITED TO INSTALLING TREE GUARDS WITH WRAP, AND WOODCHIPS.

3. PLANT GROUPINGS & LOCATIONS ARE DIAGRAMMATIC. THE LOCATION OF PLANTS SHALL BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT.

4. ALL PLANTS IN THE SAME PLANTING BED SHALL BE PLANTED AT THE SAME TIME. ANY PLANTS REMAINING UNPLANTED ON THE SITE FOR MORE THAN 24 HRS. SHALL BE PROTECTED AND MAINTAINED INCLUDING BUT NOT LIMITED TO WATER AND SHADE. ANY DAMAGED PLANTS SHALL BE REPLACED AS DIRECTED, AT THE CONTRACTOR'S EXPENSE.

5. THERE WILL BE NO SUBSTITUTIONS OF PLANT MATERIAL WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT.

6. ALL EXCAVATION AND PLANT INSTALLATION WITHIN THE TPZ SHALL BE PERFORMED BY HAND OR PNEUMATICALLY, WITH MINIMAL SOIL DISTURBANCE, AND UNDER THE SUPERVISION OF THE DIRECTOR OF ARBORICULTURE AND HORTICULTURE OR THEIR AUTHORIZED REPRESENTATIVE. PLANTS SHALL NOT BE PLACED WITHIN THREE (3) FEET OF THE TREE TRUNK UNLESS APPROVED.

7. ALL NEW TREES SHALL SET AFTER SETTLEMENTS TO THE SAME LEVEL AT WHICH THEY ARE GROWN IN THE NURSERY WITH THE ROOT FLARE EXPOSED.

8. ALL SYNTHETIC MATERIALS SHALL BE REMOVED FROM ALL PLANT MATERIAL. WIRE AND BURLAP SHALL BE REMOVED FROM TREES AND SHRUBS IN ACCORDANCE WITH THE SPECIFICATIONS.

9. VISIBLE DEMARCATION BOUNDARY MARKERS INCLUDE A PHYSICAL BOUNDARY SUCH AS GEOTEXTILE FABRIC. THAT IS DURABLE AND NON-DEGRADABLE, THE INSTALLATION OF THIS MARKER, AS IT APPLIES TO THIS PROJECT, IS WITHIN/UNDER THE LANDSCAPED AREAS AS DEPICTED IN THE SPECIFICATION FIGURES. REFERENCES FOR THE AFOREMENTIONED APPLICATIONS ARE INCLUDED IN THE FOLLOWING NJDEP GUIDANCE DOCUMENTS:

   9.1. PRESUMPTIVE AND ALTERNATIVE REMEDY TECHNICAL GUIDANCE, VERSION 2.0, AUGUST 2013

   9.2. TECHNICAL GUIDANCE ON THE CAPPING OF SITES UNDERGOING REMEDIATION, VERSION 1.0, JULY 14, 2014

10. ANY MATERIAL (E.G, SAND, STONE, TOPSOIL, GRAVEL, ETC.) IMPORTED ONTO THE SITE MUST MEET THE NJDEP CRITERIA FOR "CERTIFIED CLEAN FILL". THE NJDEP DEFINITION FOR "CERTIFIED CLEAN FILL", AND THE MEANS/METHODS FOR CONFIRMING MATERIAL PEDIGREE, IS FOUND IN THE NJDEP GUIDANCE DOCUMENT TITLED ALTERNATIVE AND CLEAN FILL GUIDANCE FOR SRP SITES, VERSION 2.0, DECEMBER 29, 2011. SAID DOCUMENTATION FOR EACH MATERIAL TYPE PROPOSED FOR IMPORTATION BE PROVIDED 15 BUSINESS DAYS PRIOR TO PROPOSED IMPORTATION SO AS APPROPRIATE REVIEW. COMMENT AND/OR APPROVAL OF SAID MATERIAL USE MAY BE PROVIDED. NO MATERIAL SHOULD BE UTILIZED ON SITE UNTIL APPROVAL FROM THE PROJECT LSRP IS PROVIDED.

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PROFESSIONAL SEAL

REVISIONS

NO.	DATE	DESCRIPTION
1	12/17/2014	SCHEMATIC DESIGN
2	01/30/2015	DESIGN DEVELOPMENT

SHEET TITLE

PLANTING SCHEDULE AND NOTES

DRAWN BY	JB
CHECKED BY	WA
PROJECT NO.	14021
ISSUE DATE	01/30/2015
SCALE	NTS
SHEET NO.	L-301

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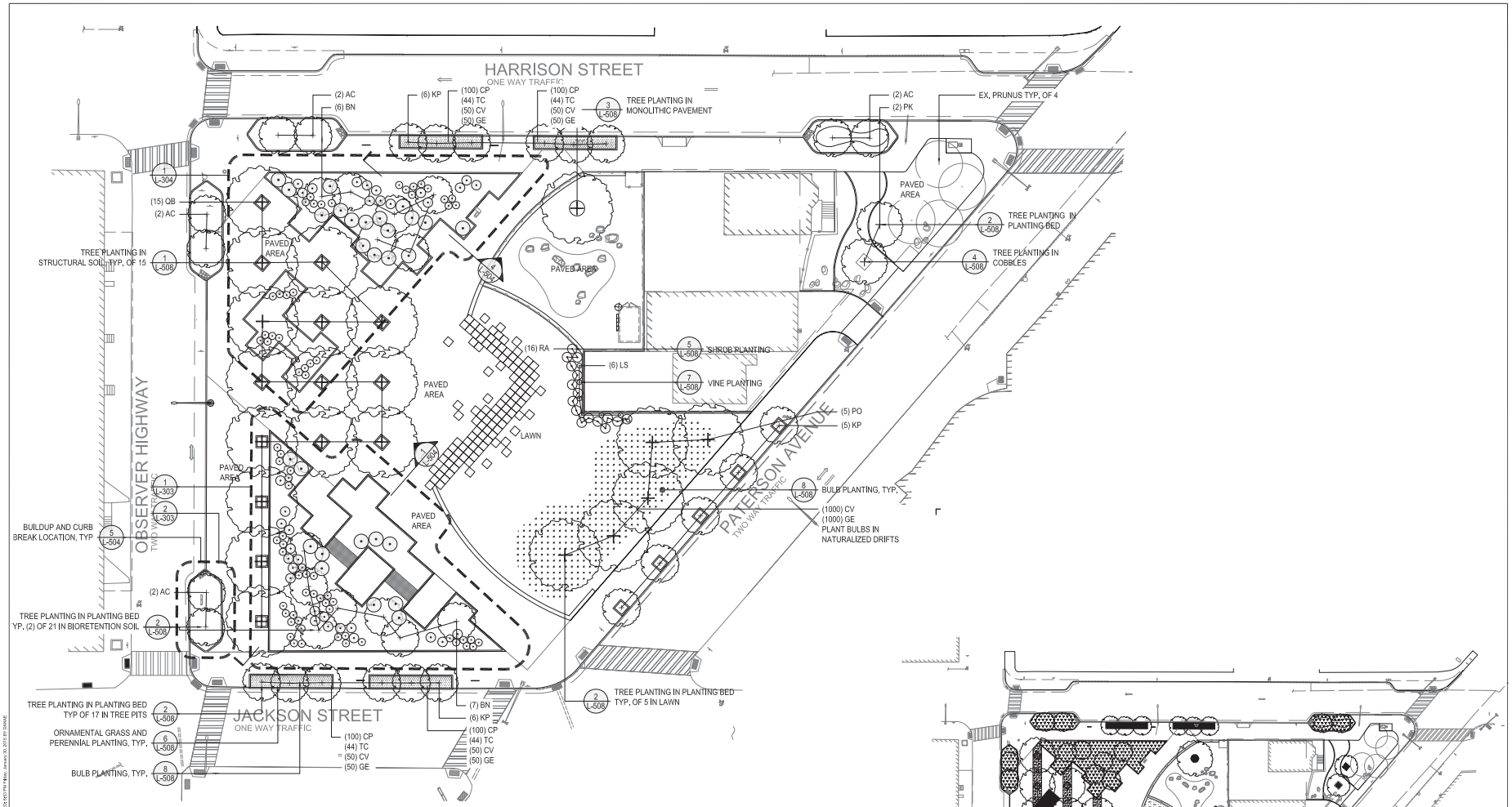
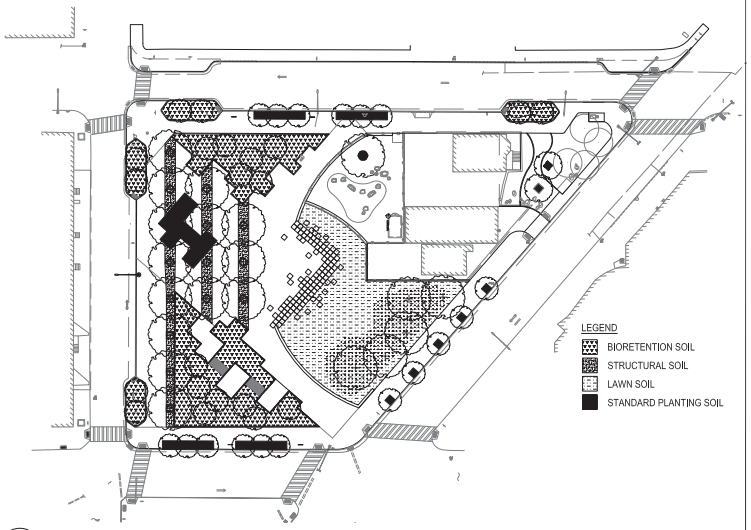
L-302 - Site Planting Plan
Hoboken South West Park Project / Project No. SRF 340635-05



1 SITE PLANTING PLAN

SCALE: 1" = 20'-0"



2 SITE SOIL PLAN

SCALE: 1" = 40'-0"

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NO.	DATE	DESCRIPTION
1	12/17/2014	SCHEMATIC DESIGN
2	01/30/2015	DESIGN DEVELOPMENT

SHEET TITLE

SITE PLANTING PLAN

DRAWN BY	JB
CHECKED BY	WA
PROJECT NO.	14021
ISSUE DATE	01/30/2015
SCALE	AS NOTED
SHEET NO.	17 OF 34

L-302

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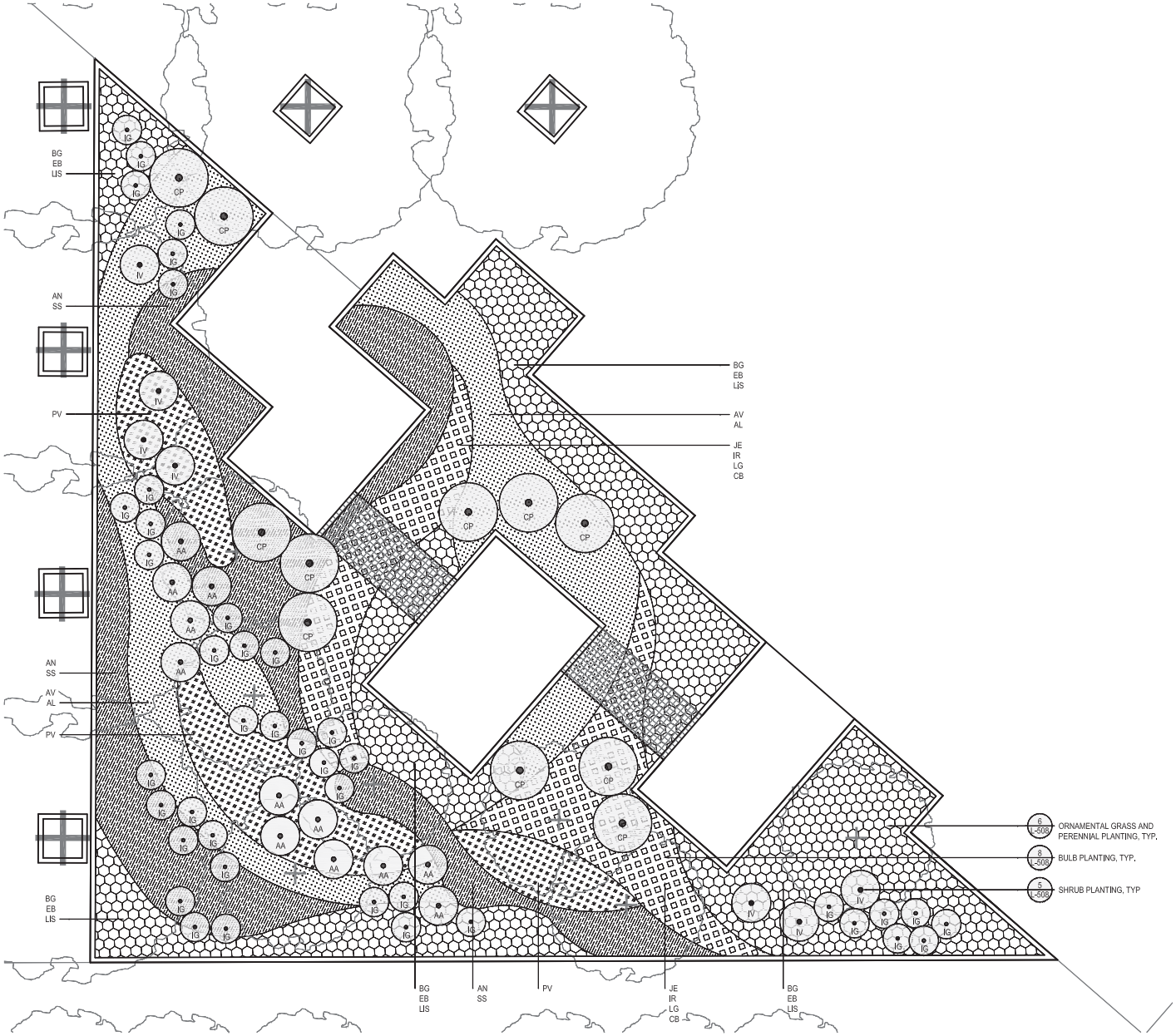
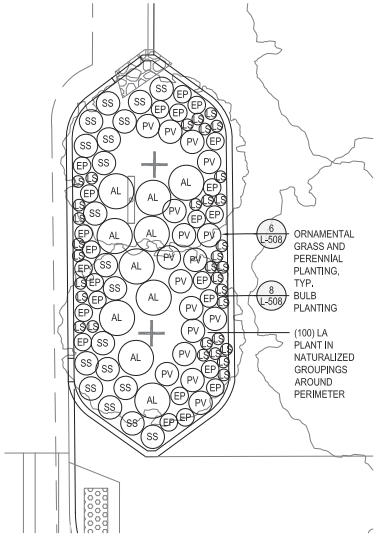
L-303 - East Rain Garden Planting
Hoboken South West Park Project / Project No. SRF 340635-05



1 EAST RAIN GARDEN PLANTING

SCALE: 1" = 5'-0"



2 TYPICAL BIOSWALE PLANTING

SCALE: 1" = 5'-0"

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2	01/30/2015	DESIGN DEVELOPMENT

SHEET TITLE

EAST RAIN GARDEN PLANTING

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CHECKED BY	WA
PROJECT NO.	14021
ISSUE DATE	01/30/2015
SCALE	AS NOTED
SHEET NO.	L-303

18 OF 34

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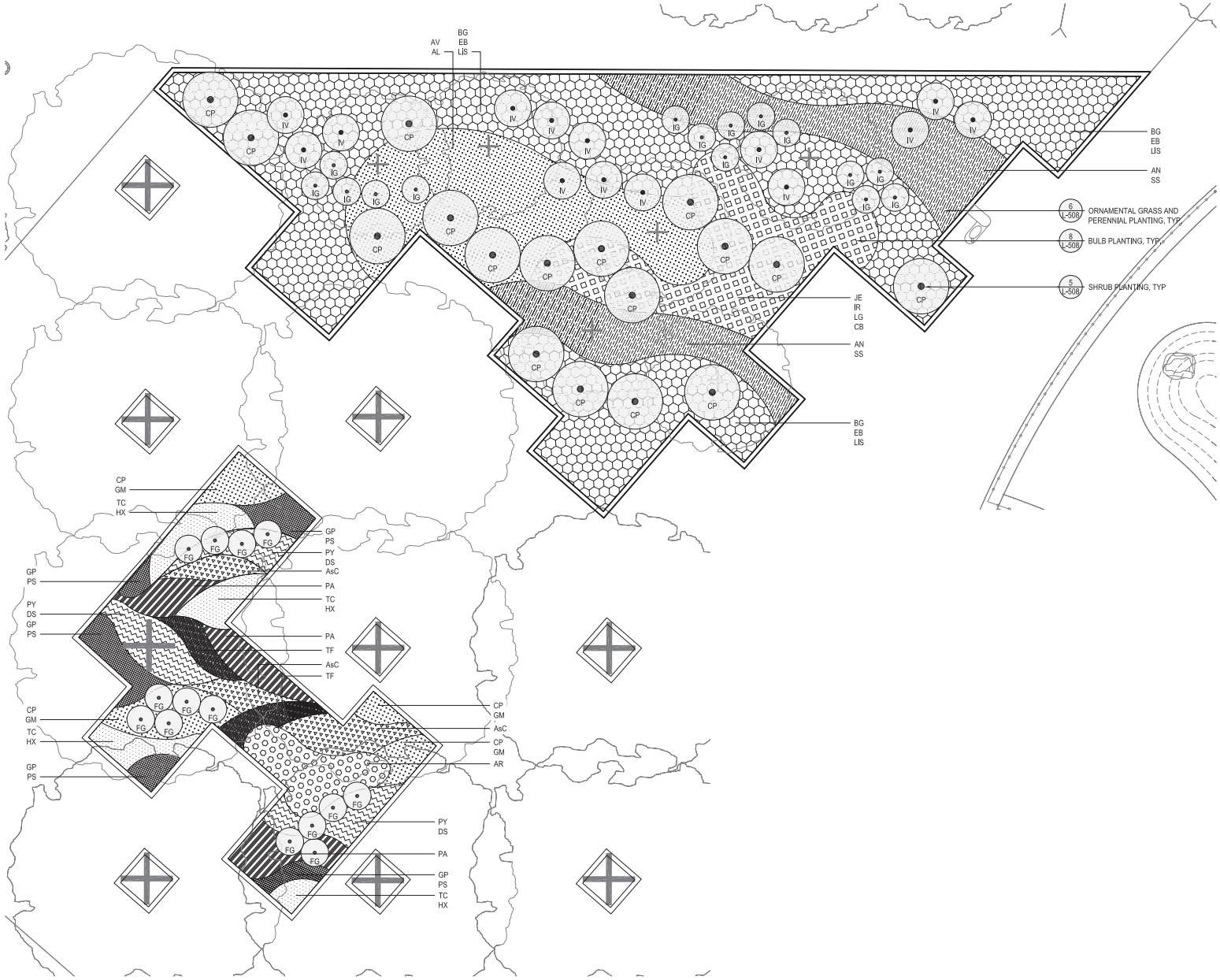
L-304 - West Rain Garden Planting
Hoboken South West Park Project / Project No. SRF 340635-05



1 WEST RAIN GARDEN AND RAISED PLANT BED PLANTING

SCALE: 1" = 5'-0"

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WEST RAIN GARDEN PLANTING

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SHEET NO.	L-304

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Stormwater Management Report,
Prepared by Langan Engineering & Environmental Services, 02/23/2015
Hoboken South West Park Project / Project No. SRF 340635-05

STORMWATER MANAGEMENT REPORT

SOUTHWEST PARK

57 Harrison Street
Block 12, Lots 1-7, 9, 12-18
City of Hoboken
Hudson County, New Jersey

Prepared For:

Applicant
City of Hoboken
94 Washington Street
Hoboken, New Jersey 07030

Prepared By:

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River Drive Center 1
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Leonard D. Savino, P.E.
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23 February 2015
100497601

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INTRODUCTION

This report addresses the engineering design of the stormwater conveyance and management system for the proposed improvements for the Southwest Park Project located on Block 12, Lots 1-7, 9 and 12-18 in the City of Hoboken, Hudson County, New Jersey. The proposed construction will consist of a new 1.24 acre park containing green stormwater infrastructure including bioswales, rain gardens and permeable pavers. The on-site stormwater management and conveyance systems have been designed in accordance with the North Hudson Sewerage Authority (NHSA) regulations, City of Hoboken Ordinance and the New Jersey Department of Environmental Protection (NJDEP) Stormwater Regulations. The detailed plans and stormwater calculations for the proposed site improvements are provided herein.

Existing Site Description

The 1.24-acre site is currently occupied by an existing at-grade asphalt parking lot. The project site is bound by Paterson Avenue to the north, Jackson Street to the east, Harrison Street to the west and Observer Highway to the south. There are also two residential properties and a business located in the center of the site, which will remain as-is and not be developed.

The site is relatively flat with existing surface elevations ranging from elevation 5.4 (NAVD-88) in the northern portion of the property sloping down to elevation 1.9 (NAVD-88) towards the center of the property. The slopes within the site generally range from 1% to 3%. The Federal Emergency Management Agency (FEMA) has mapped the entire project site within the 100-year tidal floodplain, Zone AE (refer to Figure 2– FEMA Flood Insurance Rate Map). Per the FEMA maps, the flood elevation on site is determined to be at elevation 10 (NAVD-88).

Proposed Development

The proposed improvements consist of the construction of a new 1.24 acre public park. The proposed park features include general lawn areas, plant beds, benches, retaining walls, a dog run, a small utility storage building and an event space with multi-level seating. The park will also include green stormwater infrastructure, such as bioswales, rain gardens and permeable pavers designed to treat and reduce the amount of stormwater runoff leaving the site. The existing at-grade asphalt parking lot will be demolished to accommodate the proposed site improvements.

DESIGN METHODOLOGY

Stormwater Management Design

This study was prepared using the design methods contained in the USDA Soil Conservation Service (SCS) Publication TR-55 "Urban Hydrology for Small Watersheds" for runoff calculations. The project is considered a "major development" as defined by the Stormwater Management Regulations issued by the New Jersey Department of Environmental Protection (NJDEP) because the area of disturbance (1.24 acres) is greater than an acre. As a result, the stormwater management design must demonstrate that there is no increase, as compared to the pre-construction condition, in the peak runoff rates of stormwater leaving the site for the 2-, 10- and 100-year storm events per NJDEP regulations (N.J.A.C. 7:8-5.4(a)3ii).

This has been achieved by significantly reducing the impervious coverage from pre-construction to post-construction conditions. However, the City of Hoboken has requested a subsurface detention system design with the storage capacity equivalent to the volume generated from the 10-year storm event. This subsurface detention system design will result in significant reductions of peak runoff rates for the 2-, 10- and 100-year storm events as compared to the pre-construction conditions.

The TR-55 method outlines procedures for calculating peak runoff rates resulting from precipitation events and additional procedures for developing runoff hydrographs. This procedure simulates a watershed as a series of overland flows, channel flows and inflow and outflow structures for the watershed's contribution to runoff.

Values for area and curve number (CN) were calculated for each watershed. The curve number is a land-sensitive coefficient that dictates the relationship between total rainfall depth and direct storm runoff. Based on the land use and Hydrologic Soil Group, an average CN value was determined for the watersheds that exist on site for both existing and proposed conditions. The curve numbers are summarized in Table on the following page:

TABLE 1 – CURVE NUMBERS	
Surface Type	**CN-value**
Impervious	98
Pervious	74
Permeable Pavers	68

Note: See Appendix B for Permeable Pavers CN-value calculations.

EXISTING CONDITIONS

Existing Watershed Areas

The existing 1.24-acre site has been modeled as one watershed (refer to Figure 3 – Existing Watershed Plan). The existing watershed consists of 1.24 acres, comprised of 1.06 acres of impervious area and 0.18 acres of pervious area. Presently, the runoff from the site is collected in inlets located at the four corners of the property, which is eventually conveyed to a 4'-0" x 8'-0" combined sewer line in Observer Highway that ultimately discharges into the Hudson River.

Existing peak flow rates for the site have been analyzed and are summarized in Table 2, below:

TABLE 2 - EXISTING PEAK WATERSHED AREA DISCHARGES				
	AREA (AC.)	**2-YEAR FLOW (CFS)**	**10-YEAR FLOW (CFS)**	**100-YEAR FLOW (CFS)**
Existing Watershed	1.24	3.74	5.84	9.85

Note: See Appendix A for calculations.

PROPOSED CONDITIONS

Proposed Watershed Areas

The proposed site has also been modeled as one watershed consisting of 1.24 acres, comprised of 0.53 acres of impervious area, 0.27 acres of permeable pavers area and 0.44 acres of pervious area (refer to Figure 4 – Proposed Watershed Plan). The site is then further divided into sub-watersheds, three of which are conveyed to the three subsurface detention basins. Sub-Watershed A-1 consists of 0.28 acres, comprised of 0.05 acres of impervious area, 0.13 acres of permeable pavers and 0.10 acres of pervious rain garden area. The stormwater runoff from Sub-Watershed A-1 sheet flows to the proposed inlet collection, which is then routed through the subsurface Detention Basin-1. Sub-

Watershed A-2 consists of 0.24 acres, comprised of 0.07 acres of impervious area, 0.10 acres of permeable pavers and 0.07 acres of pervious rain garden area. The stormwater runoff from Sub-Watershed A-2 sheet flows to the proposed inlet collection, which is then routed through the subsurface Detention Basin-2. Sub-Watershed A-3 consists of 0.18 acres, comprised of 0.01 acres of impervious area and 0.17 acres of pervious lawn area. The stormwater runoff from Sub-Watershed A-3 sheet flows to the proposed inlet collection, which is then routed through the subsurface Detention Basin-3.

There are also two undetained sub-watersheds. The first, Sub-Watershed A-4, is comprised of the proposed dog run area, which consists of 0.08 acres of impervious area. The NJDEP specifically requested the stormwater runoff generated from the dog run be conveyed separately from the rest of the site. As such, the stormwater runoff from this sub-watershed is collected via a series of inlets and conveyed into the combined sewer system located in Harrison Street. The second, Sub-Watershed A-5, consists of the proposed landscape island in the northern corner of the site as well as the bioswales and sidewalk area located within the right-of-way. It consists of 0.46 acres, comprised of 0.32 acres of impervious area, 0.04 acres of permeable pavers and 0.10 acres of pervious area. Stormwater runoff from this sub-watershed flows undetained into catch basins at the intersections of the streets surrounding the project site.

All five of the sub-watersheds are then conveyed to the 4'-0" x 8'-0" combined sewer line in Observer Highway, which ultimately discharges into the Hudson River.

Stormwater Quantity

Rainfall hydrographs developed using the design methods contained in the USDA Soil Conservation Service (SCS) Publication TR-55 "Urban Hydrology for Small Watersheds" for the proposed watershed and sub-watersheds were routed through three separate subsurface detention basins using level-pool routing techniques.

Proposed Detention Basin-1 consists of 3 rows of 186 linear feet of 24-inch diameter HDPE pipe set in a 3/4-inch crushed, clean stone bed, with the entire system wrapped in geotextile fabric to separate the stone and surrounding soil (refer to Drawing CG101 – Site Drainage Plan). Runoff collected from portions of the rain gardens is conveyed through the detention basin via an overflow inlet, where it is eventually discharged into the existing combined sewer line in Jackson Street.

Proposed Detention Basin-2 consists of a total of 729 linear feet of 24-inch diameter HDPE pipe set in a 3/4-inch crushed, clean stone bed, with the entire system wrapped in geotextile fabric to separate the stone and surrounding soil (refer to Drawing CG101 – Site Drainage Plan). Runoff collected from portions of the rain gardens is conveyed through the detention basin via an overflow inlet, where it is eventually discharged into the existing combined sewer line in Jackson Street.

Proposed Detention Basin-3 consists of a total of 874 linear feet of 36-inch diameter HDPE pipe set in a 3/4-inch crushed, clean stone bed, with the entire system wrapped in geotextile fabric to separate the stone and surrounding soil (refer to Drawing CG101 – Site Drainage Plan). Runoff collected from the raised portion of the park on the northern end of the property is conveyed through the detention basin via a series of inlets, where it is eventually discharged into the existing combined sewer line in Jackson Street.

As requested by the City of Hoboken, these three subsurface detention basins totaling 10,275 cubic feet of storage in addition to the rain garden storage volumes (588 cubic feet) are sized to store the entire volume generated from the 10-year storm in the proposed conditions. This combined volume was calculated to be 10,863 cubic feet (see Appendix B). The increase in pervious area in the proposed conditions and the conveyance of runoff through the subsurface detention basins results in a significant reduction of peak runoff rates. As shown in Table 3 below, the proposed peak discharge rates are significantly reduced from the existing peak discharge rates for the site:

TABLE 3 - PROPOSED PEAK WATERSHED AREA DISCHARGES

	AREA (AC.)	2-YEAR FLOW (CFS)	10-YEAR FLOW (CFS)	100-YEAR FLOW (CFS)
Proposed Watershed	1.24	1.92 (< *3.74*)	2.95 (< 5.84)	4.92 (< *9.85*)

Note: See Appendix B for calculations.

Proposed Stormwater Conveyance

A system of storm sewers is proposed to collect and convey stormwater runoff resulting from the 10-year design storm event. The storm conveyance design was prepared using the Rational Method and the rainfall intensity curve data was obtained from NOAA Atlas 14, Volume 2, Version 3 (refer to Figure 6 – NOAA IDF Data). The stormwater conveyance calculations are provided in

Appendix C and inlet catchment areas have been provided on the Figure 5 - Proposed Inlet Catchment Area Plan.

Water Quality

As previously stated, the project is considered a "major development" as defined by the Stormwater Management Regulations issued by the New Jersey Department of Environmental Protection (NJDEP). However, stormwater quality treatment is not required for this project because impervious coverage is being reduced by 0.53 acres. The lawn areas, rain gardens, dog run and play areas of the park do not receive vehicular traffic and therefore, per NJDEP regulations, do not need to be treated for TSS removal. However, the bioswales, rain gardens and permeable pavers will provide varying degrees of total suspended solids (TSS) removal rates per the New Jersey Stormwater Best Management Practices Manual and consistent with the New Jersey Water Quality Management Plan (N.J.A.C. 7:15). The TSS removal rates are summarized in Table 4 below:

TABLE 4 – WATER QUALITY	
Best Management Practice	**TSS Removal Rate (%)**
Bioswale	90%
Rain Gardens	90%
Permeable Pavers	80%

Groundwater Recharge

The NJDEP Stormwater Regulations (NJAC 7:8) do not require the implementation of a groundwater recharge system because the site is located in an urban PA-1 zone.

CONCLUSION

In conclusion, the project is considered a "major development" (as defined by the NJDEP Stormwater Management Regulations) and is subject to stormwater quantity regulations but not quality or groundwater recharge regulations. The proposed stormwater runoff will be significantly reduced from the existing peak flow rates for the 2-, 10- and 100-year storm events because the proposed development increases the pervious coverage and provides additional storage via the proposed rain gardens and subsurface detentions basins, which accommodate the entire 10-year storm volume. In addition, water quality is not required but has been incorporated into the design

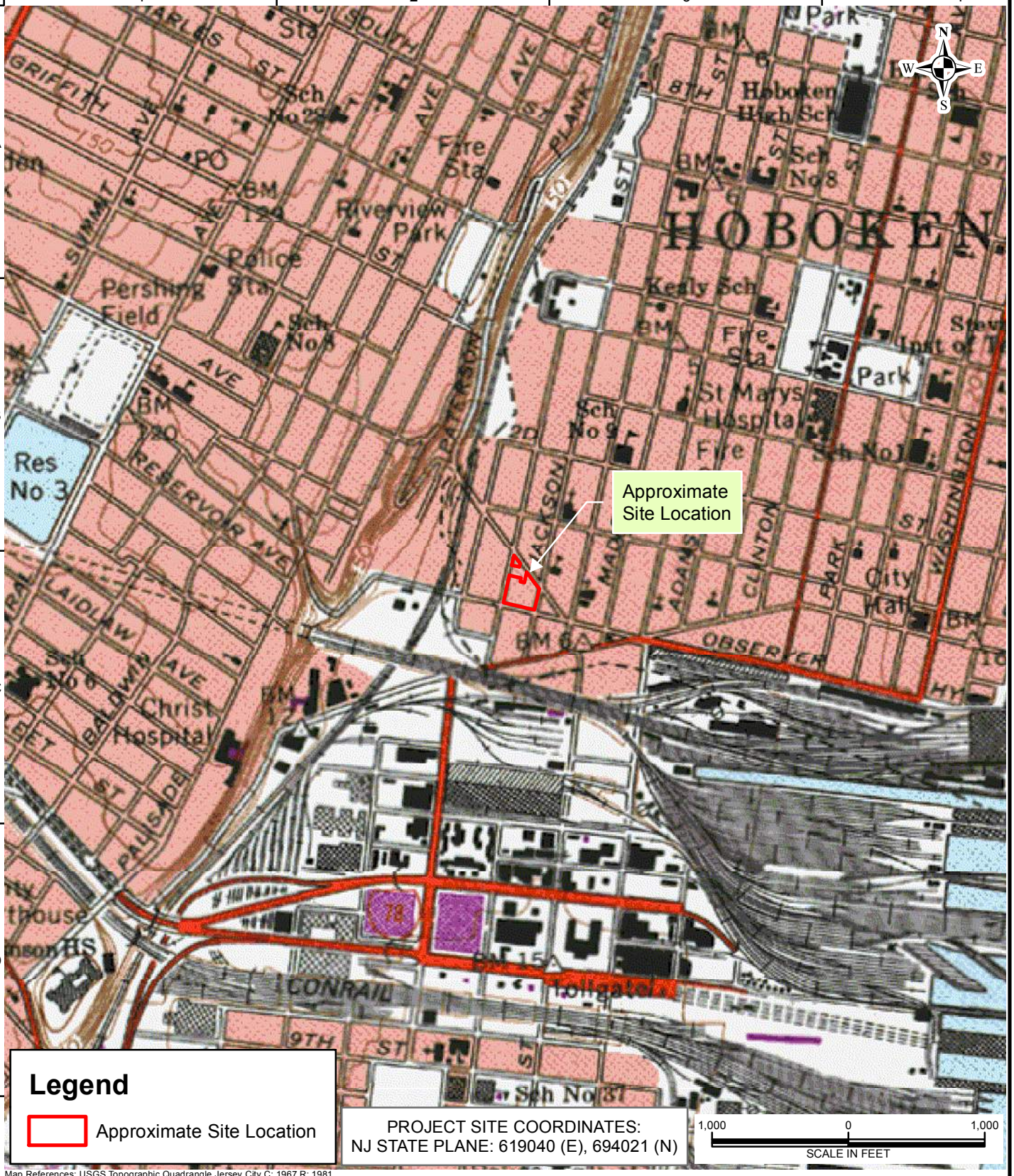
via bioswales, rain gardens and permeable pavers. Groundwater recharge is not required because the site is located in an urban PA-1 zone. The proposed stormwater conveyance system has been designed to safely and effectively convey the 10-year storm event.

REFERENCES

1. Autodesk, Inc. Hydraflow Hydrographs Extension for AutoCAD Civil 3D 2011.
2. Autodesk, Inc. Hydraflow Storm Sewers Extension for AutoCAD Civil 3D 2011.
3. North Hudson Sewerage Authority Requirements and Checklist for Sanitary, Stormwater and Dewatering Conditions dated April 16, 2013.
4. NJDEP
5. City of Hoboken Ordinance

\\langan.com\data\EP\data6\100497601\Office Data\Reports\Stormwater\Stormwater Report.doc

FIGURES



Map References: USGS Topographic Quadrangle Jersey City C: 1967 R: 1981

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
SW PARK
BLOCK 12, LOTS 1 - 7, 9, 12 - 18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

Drawing Title
USGS SITE LOCATION MAP

Project No. 100497601	Figure 1
Date 11/17/2014	
Scale 1"= 1,000'	
Drawn By MWen	

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Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\Figure 1 - USGS.mxd

Map References: FEMA Preliminary Flood Insurance Rate Map 34017C0106E, 12/20/13

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Project	Drawing Title	Project No.	Figure
SW PARK BLOCK 12, LOTS 1 - 7, 9, 12 - 18 CITY OF HOBOKEN HUDSON COUNTY NEW JERSEY	FEMA PRELIMINARY FIRM MAP	100497601	2
		Date 11/17/2014	
		Scale 1"= 500'	
		Drawn By MWen	

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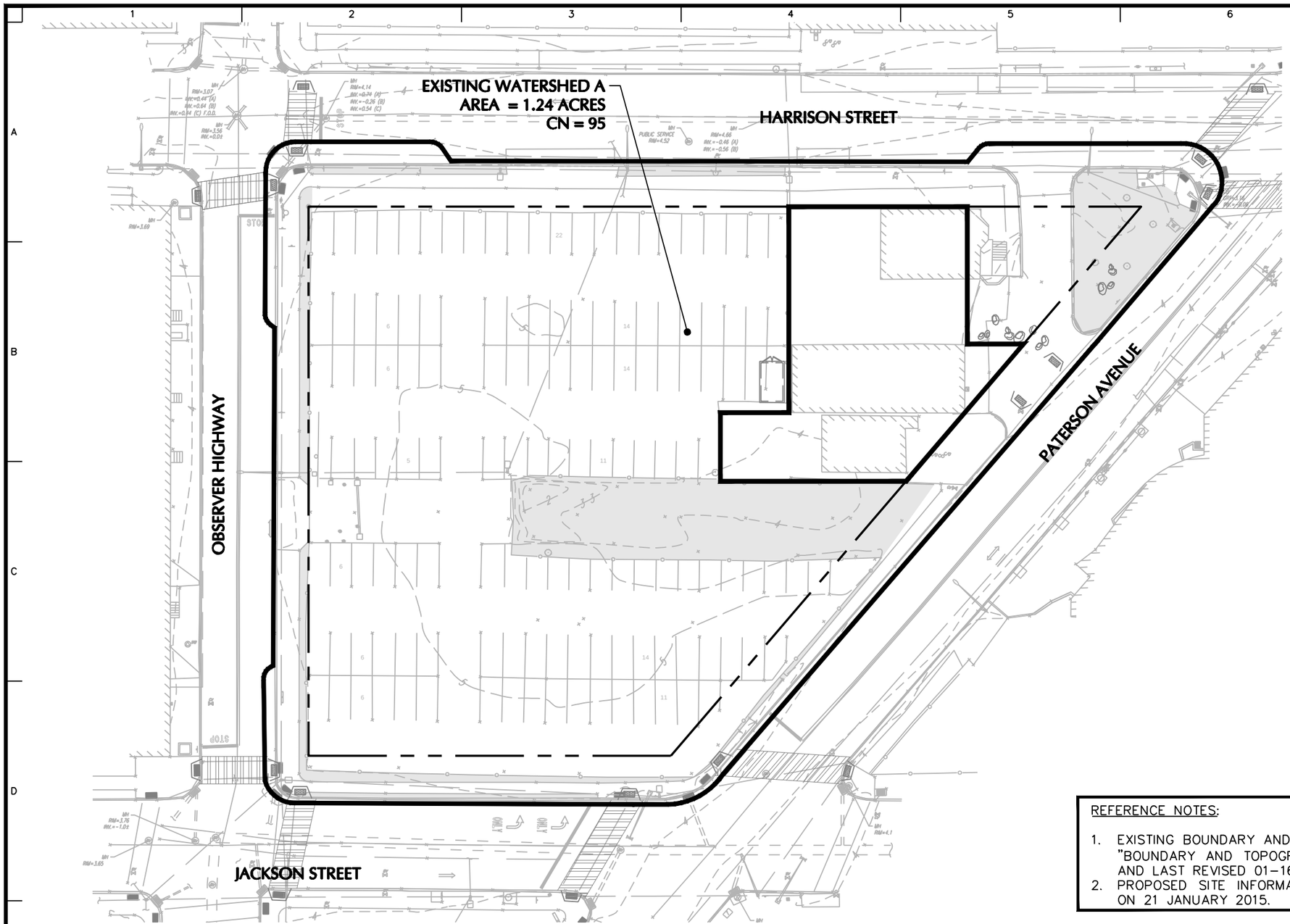
Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\Figure 7 - FEMA.mxd



LEGEND

DESCRIPTION	SYMBOL
WATERSHED BOUNDARY	
PERVIOUS AREA	

40 0 10 25 40

SCALE IN FEET

REFERENCE NOTES:

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A PLAN TITLED "BOUNDARY AND TOPOGRAPHIC SURVEY 57 HARRISON STREET," DATED 11-27-2013 AND LAST REVISED 01-16-15.
2. PROPOSED SITE INFORMATION OBTAINED ELECTRONICALLY FROM STARR WHITEHOUSE ON 21 JANUARY 2015.

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Langan CT, Inc.
Langan International LLC
Collectively known as Langan

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

SOUTHWEST PARK

BLOCK 12, LOTS 1-7, 9, 12-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

Drawing Title

EXISTING WATERSHED PLAN

Project No. 100497601	
Date 23 JANUARY 2015	
Scale 1" = 40'	
Drawn By ENS	Checked By SD
Submission Date	

FIG. 3

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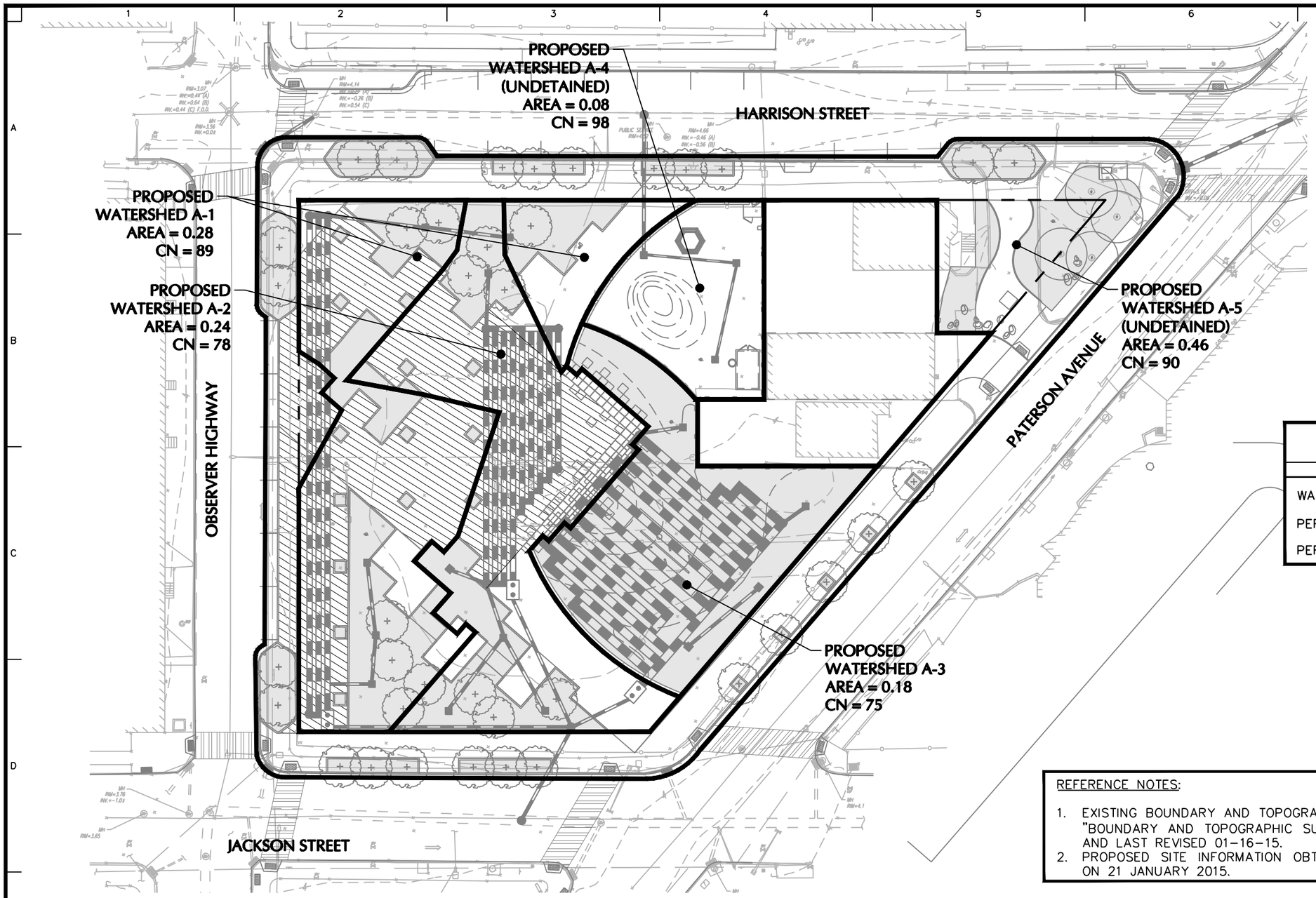

LEGEND

DESCRIPTION	SYMBOL
WATERSHED BOUNDARY	
PERVIOUS AREA	
PERMEABLE PAVER AREA	

40 0 10 25 40

SCALE IN FEET

REFERENCE NOTES:

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A PLAN TITLED "BOUNDARY AND TOPOGRAPHIC SURVEY 57 HARRISON STREET," DATED 11-27-2013 AND LAST REVISED 01-16-15.
2. PROPOSED SITE INFORMATION OBTAINED ELECTRONICALLY FROM STARR WHITEHOUSE ON 21 JANUARY 2015.

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Project

SOUTHWEST PARK

BLOCK 12, LOTS 1-7, 9, 12-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

Drawing Title

PROPOSED WATERSHED PLAN

Project No. 100497601	
Date 23 JANUARY 2015	
Scale 1" = 40'	
Drawn By ENS	Checked By SD
Submission Date	

FIG. 4

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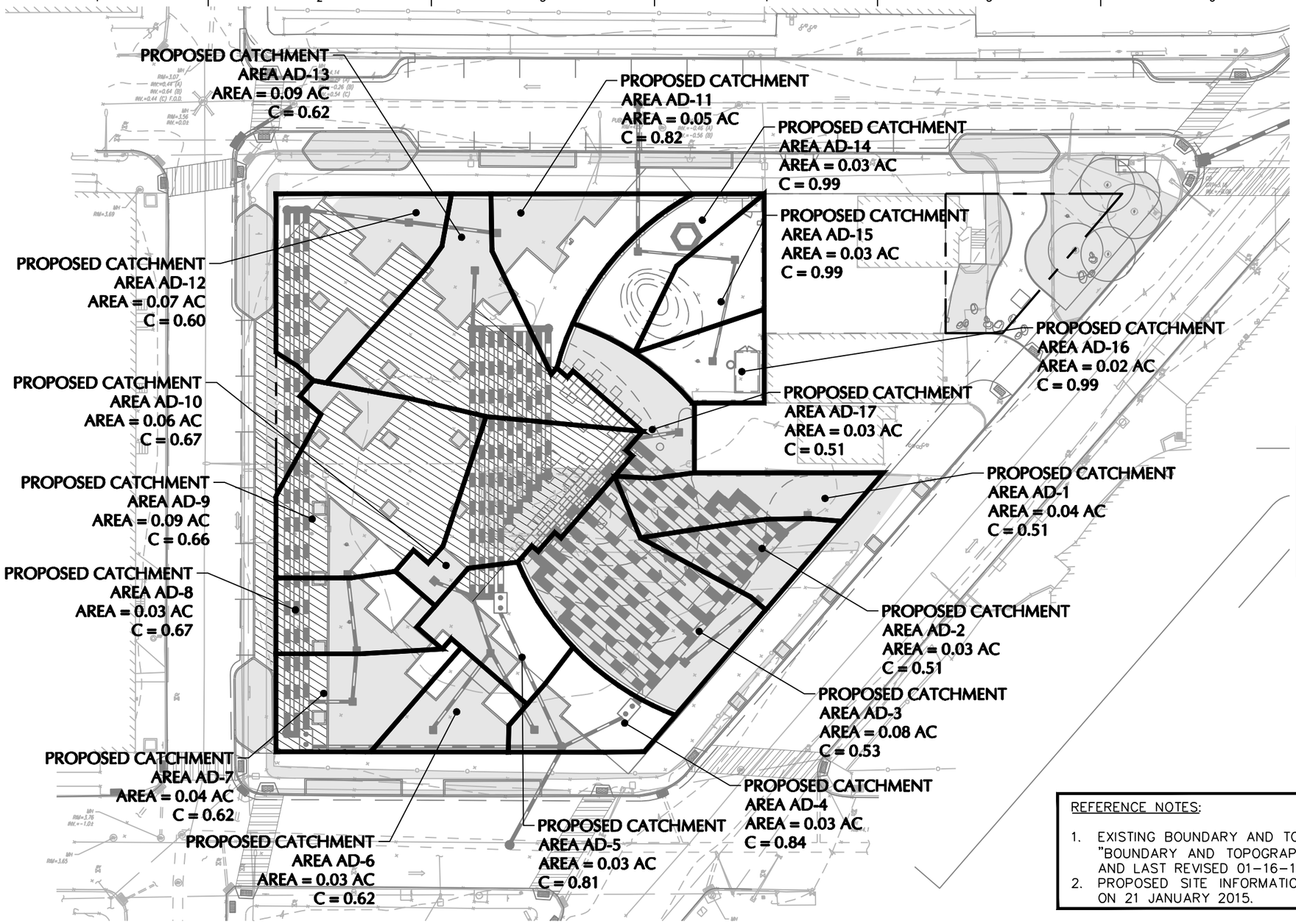

LEGEND

DESCRIPTION	SYMBOL
CATCHMENT AREA BOUNDARY	
PERVIOUS AREA	
PERMEABLE PAVER AREA	

40 0 10 25 40

SCALE IN FEET

REFERENCE NOTES:

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A PLAN TITLED "BOUNDARY AND TOPOGRAPHIC SURVEY 57 HARRISON STREET," DATED 11-27-2013 AND LAST REVISED 01-16-15.
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Project

SOUTHWEST PARK

BLOCK 12, LOTS 1-7, 9, 12-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

Drawing Title

PROPOSED INLET CATCHMENT AREA PLAN

Project No. 100497601	
Date 23 JANUARY 2015	
Scale 1" = 40'	
Drawn By ENS	Checked By SD
Submission Date	

FIG. 5

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NOAA Atlas 14, Volume 2, Version 3
Location name: Hoboken, New Jersey, US*
Coordinates: 40.7448, -74.0266
Elevation: 65 ft*
* source: Google Maps

POINT PRECIPITATION FREQUENCY ESTIMATES

G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M.Yekta, and D. Riley

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**4.02** (3.67-4.39)	**4.79** (4.38-5.26)	**5.70** (5.21-6.25)	**6.36** (5.80-6.98)	**7.24** (6.55-7.93)	**7.82** (7.06-8.59)	**8.44** (7.55-9.28)	**9.04** (8.03-9.96)	**9.80** (8.58-10.9)	**10.3** (8.98-11.5)
10-min	**3.18** (2.91-3.49)	**3.81** (3.48-4.18)	**4.52** (4.13-4.96)	**5.04** (4.58-5.53)	**5.69** (5.15-6.25)	**6.16** (5.55-6.76)	**6.62** (5.92-7.28)	**7.04** (6.25-7.76)	**7.58** (6.64-8.42)	**7.97** (6.91-8.89)
15-min	**2.64** (2.42-2.89)	**3.17** (2.90-3.47)	**3.78** (3.45-4.15)	**4.22** (3.84-4.63)	**4.78** (4.32-5.24)	**5.16** (4.65-5.66)	**5.54** (4.96-6.10)	**5.90** (5.24-6.50)	**6.35** (5.56-7.05)	**6.65** (5.77-7.42)
30-min	**1.79** (1.64-1.96)	**2.17** (1.98-2.38)	**2.66** (2.43-2.92)	**3.03** (2.75-3.32)	**3.49** (3.16-3.83)	**3.83** (3.45-4.21)	**4.18** (3.74-4.60)	**4.51** (4.01-4.98)	**4.96** (4.34-5.50)	**5.28** (4.58-5.89)
60-min	**1.11** (1.02-1.22)	**1.35** (1.24-1.48)	**1.70** (1.55-1.86)	**1.96** (1.78-2.15)	**2.31** (2.09-2.53)	**2.58** (2.32-2.83)	**2.86** (2.56-3.14)	**3.14** (2.79-3.46)	**3.52** (3.08-3.91)	**3.81** (3.31-4.26)
2-hr	**0.687** (0.626-0.758)	**0.834** (0.760-0.922)	**1.05** (0.958-1.16)	**1.22** (1.11-1.35)	**1.46** (1.31-1.61)	**1.65** (1.48-1.82)	**1.85** (1.64-2.04)	**2.06** (1.81-2.28)	**2.34** (2.03-2.60)	**2.57** (2.20-2.87)
3-hr	**0.509** (0.464-0.561)	**0.617** (0.563-0.683)	**0.780** (0.710-0.863)	**0.909** (0.825-1.00)	**1.09** (0.980-1.20)	**1.23** (1.10-1.36)	**1.38** (1.23-1.53)	**1.54** (1.36-1.71)	**1.76** (1.53-1.96)	**1.94** (1.66-2.16)
6-hr	**0.330** (0.301-0.362)	**0.399** (0.365-0.439)	**0.501** (0.458-0.550)	**0.583** (0.530-0.639)	**0.699** (0.631-0.766)	**0.794** (0.713-0.871)	**0.894** (0.794-0.980)	**0.999** (0.880-1.10)	**1.15** (0.996-1.27)	**1.27** (1.09-1.41)
12-hr	**0.200** (0.183-0.220)	**0.243** (0.222-0.267)	**0.306** (0.279-0.336)	**0.358** (0.325-0.392)	**0.433** (0.390-0.473)	**0.496** (0.443-0.541)	**0.563** (0.498-0.615)	**0.635** (0.556-0.696)	**0.739** (0.635-0.813)	**0.826** (0.699-0.911)
24-hr	**0.114** (0.105-0.124)	**0.137** (0.127-0.150)	**0.175** (0.161-0.191)	**0.207** (0.190-0.225)	**0.254** (0.232-0.275)	**0.294** (0.266-0.319)	**0.338** (0.304-0.366)	**0.387** (0.344-0.420)	**0.459** (0.402-0.499)	**0.521** (0.450-0.568)
2-day	**0.066** (0.060-0.072)	**0.080** (0.073-0.087)	**0.101** (0.093-0.111)	**0.120** (0.110-0.131)	**0.147** (0.133-0.161)	**0.170** (0.154-0.186)	**0.196** (0.175-0.214)	**0.224** (0.198-0.246)	**0.266** (0.231-0.293)	**0.301** (0.258-0.333)
3-day	**0.046** (0.043-0.051)	**0.056** (0.052-0.061)	**0.071** (0.066-0.078)	**0.084** (0.077-0.092)	**0.103** (0.094-0.112)	**0.119** (0.108-0.129)	**0.137** (0.123-0.149)	**0.156** (0.139-0.170)	**0.184** (0.161-0.202)	**0.208** (0.179-0.229)
4-day	**0.037** (0.034-0.040)	**0.044** (0.041-0.048)	**0.056** (0.052-0.061)	**0.066** (0.061-0.072)	**0.081** (0.074-0.088)	**0.093** (0.085-0.101)	**0.107** (0.096-0.116)	**0.122** (0.109-0.132)	**0.143** (0.126-0.157)	**0.162** (0.140-0.177)
7-day	**0.024** (0.023-0.026)	**0.029** (0.027-0.032)	**0.037** (0.034-0.040)	**0.043** (0.040-0.046)	**0.052** (0.048-0.056)	**0.059** (0.054-0.063)	**0.067** (0.061-0.072)	**0.075** (0.068-0.081)	**0.088** (0.078-0.095)	**0.098** (0.086-0.107)
10-day	**0.019** (0.018-0.021)	**0.023** (0.022-0.025)	**0.029** (0.027-0.031)	**0.033** (0.031-0.035)	**0.039** (0.036-0.042)	**0.045** (0.041-0.048)	**0.050** (0.046-0.054)	**0.056** (0.051-0.060)	**0.065** (0.058-0.070)	**0.072** (0.063-0.078)
20-day	**0.013** (0.012-0.014)	**0.016** (0.015-0.016)	**0.019** (0.017-0.020)	**0.021** (0.020-0.022)	**0.024** (0.023-0.026)	**0.027** (0.025-0.028)	**0.029** (0.027-0.031)	**0.032** (0.029-0.034)	**0.035** (0.032-0.038)	**0.038** (0.035-0.041)
30-day	**0.011** (0.010-0.012)	**0.013** (0.012-0.014)	**0.015** (0.014-0.016)	**0.017** (0.016-0.018)	**0.019** (0.018-0.020)	**0.021** (0.019-0.022)	**0.022** (0.021-0.024)	**0.024** (0.022-0.026)	**0.026** (0.024-0.028)	**0.028** (0.026-0.030)
45-day	**0.009** (0.009-0.010)	**0.011** (0.010-0.011)	**0.013** (0.012-0.013)	**0.014** (0.013-0.015)	**0.016** (0.015-0.016)	**0.017** (0.016-0.018)	**0.018** (0.017-0.019)	**0.019** (0.018-0.020)	**0.021** (0.019-0.022)	**0.022** (0.020-0.023)
60-day	**0.008** (0.008-0.009)	**0.010** (0.009-0.010)	**0.011** (0.011-0.012)	**0.012** (0.012-0.013)	**0.014** (0.013-0.014)	**0.015** (0.014-0.015)	**0.015** (0.015-0.016)	**0.016** (0.015-0.017)	**0.017** (0.016-0.018)	**0.018** (0.017-0.019)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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BLOCK 12
LOTS 1–7, 9, 12–18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

Drawing Title: NOAA RAINFALL DATA

Project No. 100497601
Date 19 DEC 2014
Scale NTS
Drawn By ENS
Checked By SD
Submission Date

Drawing No. FIGURE 6

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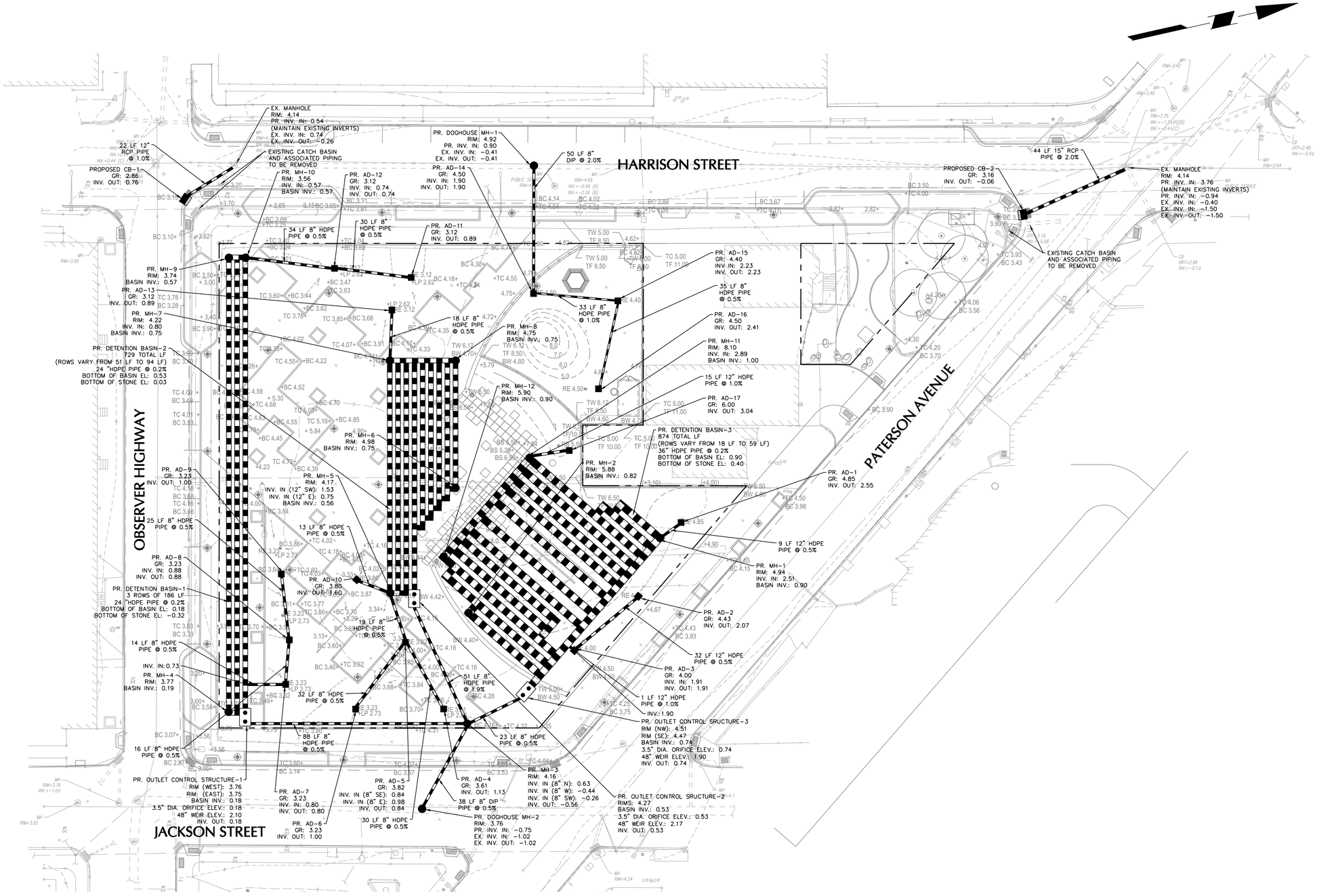
DRAWINGS



LEGEND

	EXISTING	PROPOSED
CONTOUR	13	13
STORM MANHOLE		
CATCH BASIN		
STORM SEWER PIPE		
PROPERTY LINE		

REFERENCE NOTES:

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A PLAN TITLED "BOUNDARY AND TOPOGRAPHIC SURVEY 57 HARRISON STREET," DATED 11-27-2013 AND LAST REVISED 01-16-15.
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1	12/17/2014	SCHEMATIC DESIGN
2	01/30/2015	DESIGN DEVELOPMENT

SHEET TITLE

SITE DRAINAGE PLAN

DRAWN BY	ENS
CHECKED BY	SD
PROJECT NO.	14021
ISSUE DATE	12/30/2015
SCALE	1"=20'
SHEET NO.	CG101

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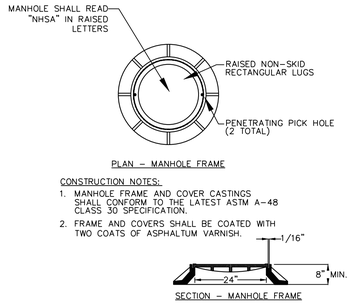
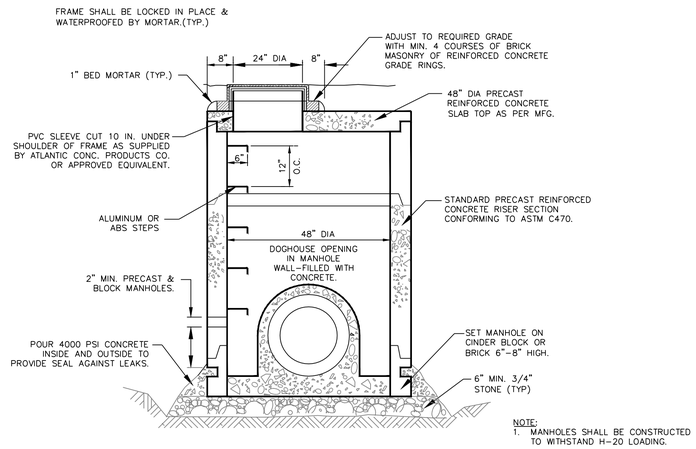


1 MANHOLE FRAME AND COVER

NTS



2 DOGHOUSE MANHOLE

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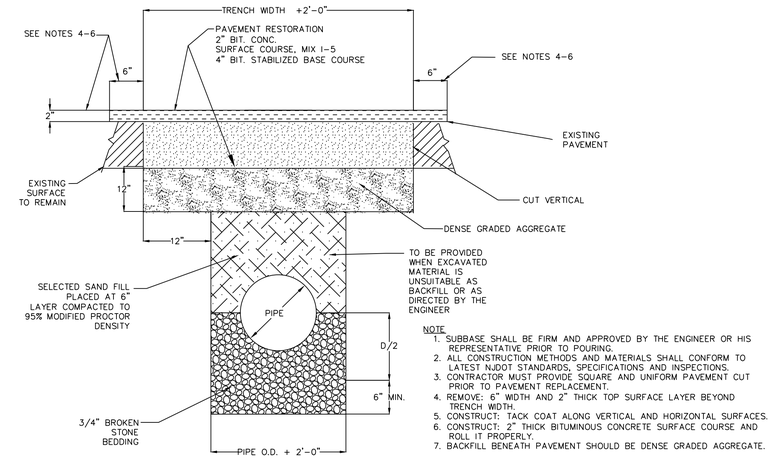

3 PIPE INSTALLATION AND PAVEMENT RESTORATION

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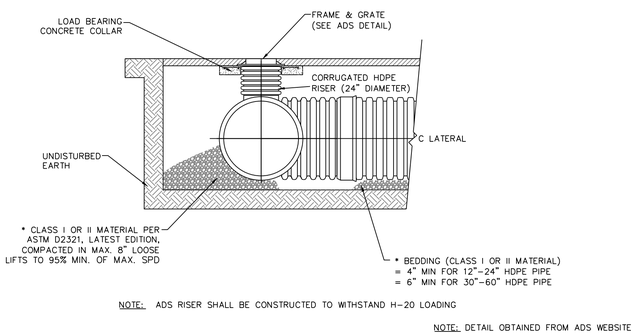
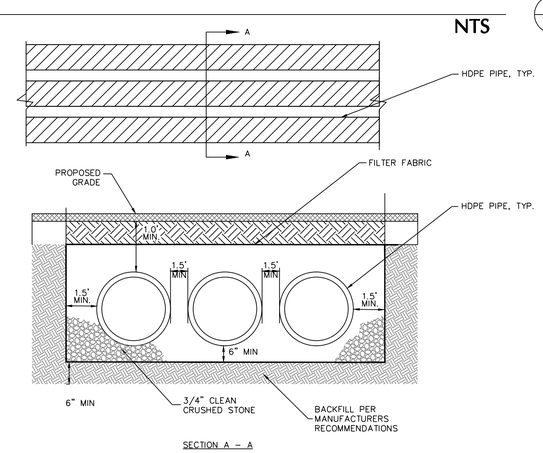


4 ADS RISER

NTS



5 TYPICAL CROSS SECTION OF PIPE DETENTION BASIN

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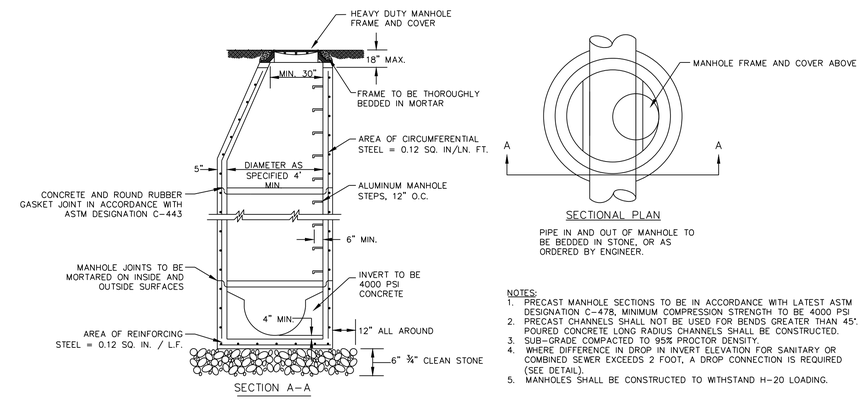
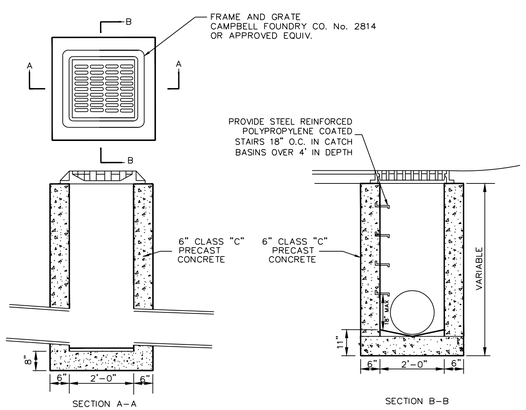


6 STORM MANHOLE

NTS



7 AREA DRAIN

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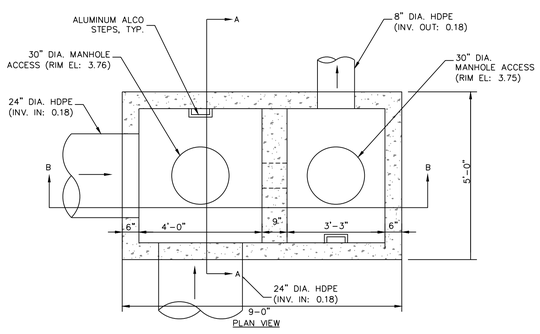
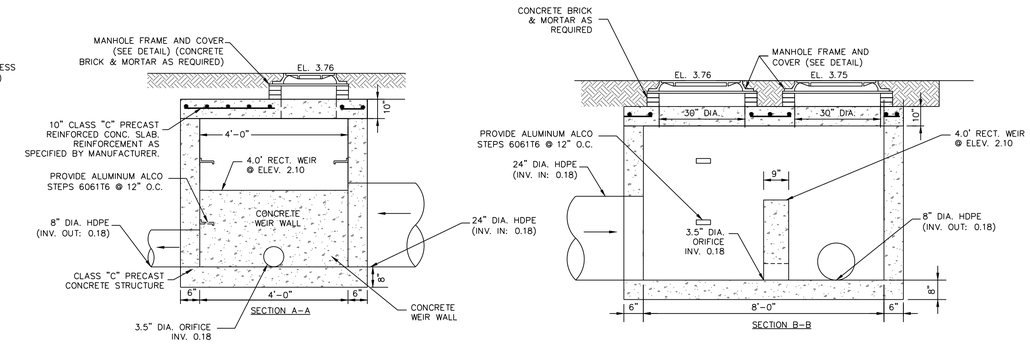


8 OUTLET CONTROL STRUCTURE-1

NTS



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2	01/30/2015	DESIGN DEVELOPMENT

SHEET TITLE

CIVIL DETAILS I

DRAWN BY	ENS
CHECKED BY	SD
PROJECT NO.	14021
ISSUE DATE	12/30/2015
SCALE	NTS
SHEET NO.	CS501

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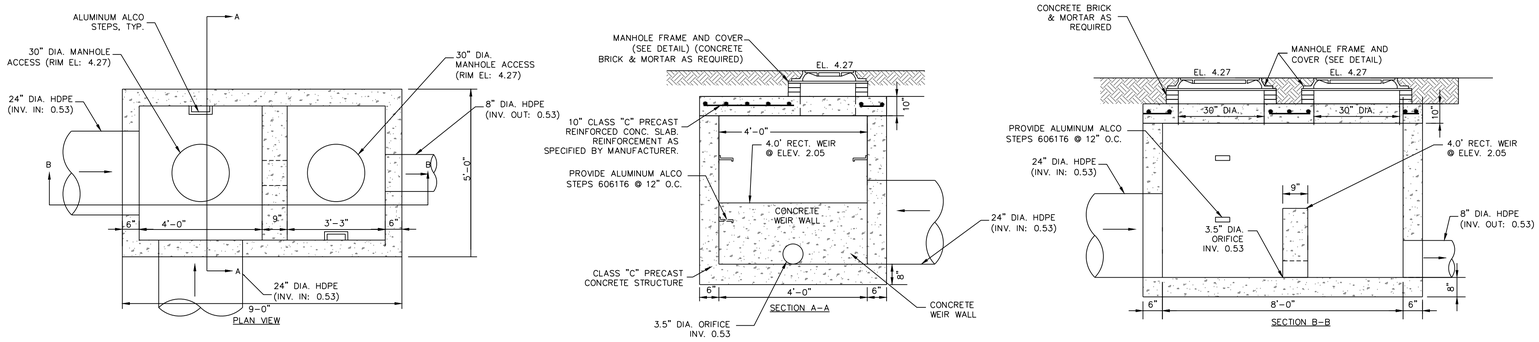
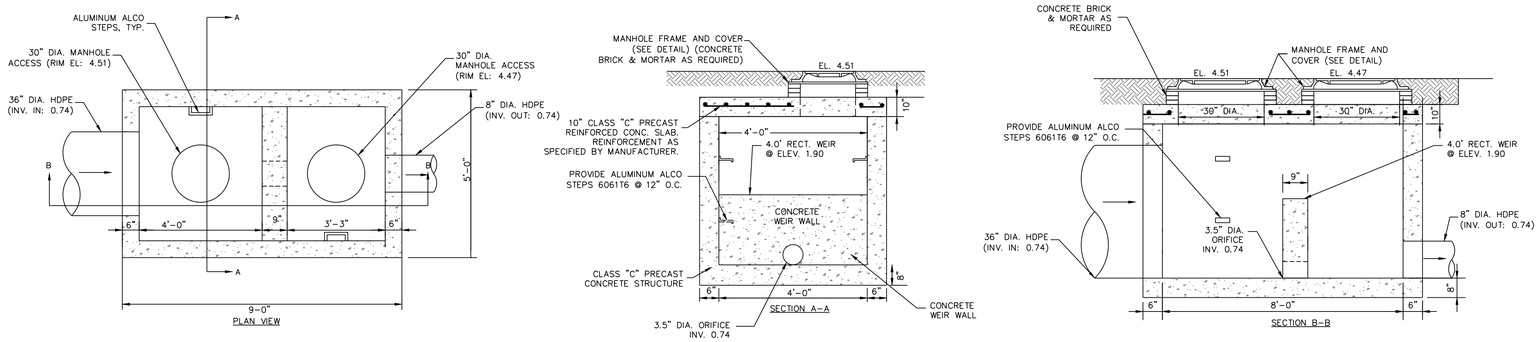


1 OUTLET CONTROL STRUCTURE-2

NTS



2 OUTLET CONTROL STRUCTURE-3

NTS

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2	01/30/2015	DESIGN DEVELOPMENT

SHEET TITLE

CIVIL DETAILS II

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PROJECT NO.	14021
ISSUE DATE	12/30/2015
SCALE	NTS
SHEET NO.	CS502

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APPENDIX A

Existing Watershed Calculations

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Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	SCS Runoff	------	-------	3.515	-------	-------	5.331	-------	-------	8.753	EX. WSHD A (IMP)
2	SCS Runoff	------	-------	0.231	-------	-------	0.510	-------	-------	1.097	EX. WSHD A (PERV)
4	Combine	1, 2,	-------	3.741	-------	-------	5.836	-------	-------	9.847	EX. WSHD A

Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	3.515	1	724	12,170	------	------	------	EX. WSHD A (IMP)
2	SCS Runoff	0.231	1	725	744	------	------	------	EX. WSHD A (PERV)
4	Combine	3.741	1	724	12,914	1, 2,	------	------	EX. WSHD A

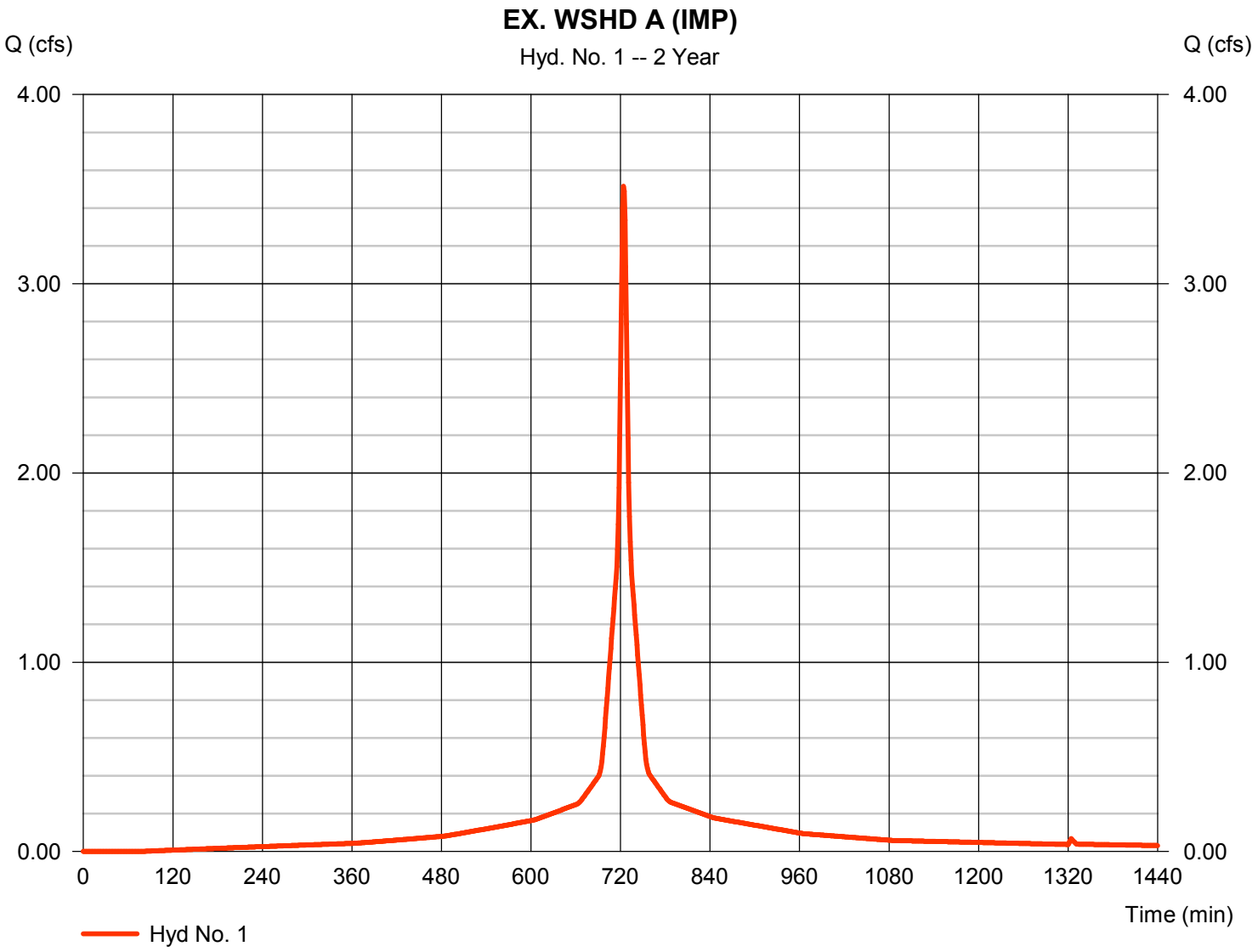
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 1

EX. WSHD A (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 3.515 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 12,170 cuft
Drainage area	= 1.060 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



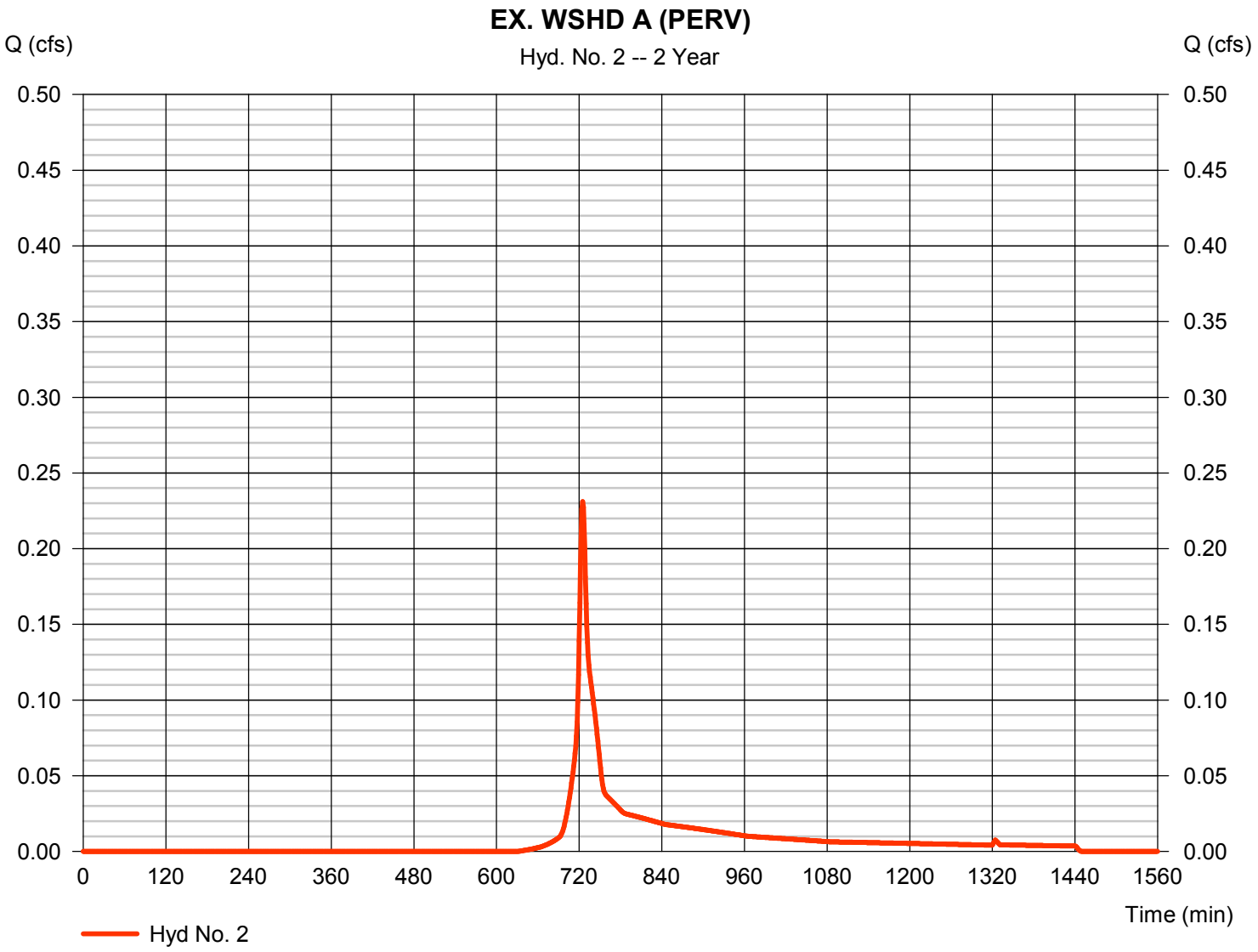
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 2

EX. WSHD A (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.231 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 744 cuft
Drainage area	= 0.180 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



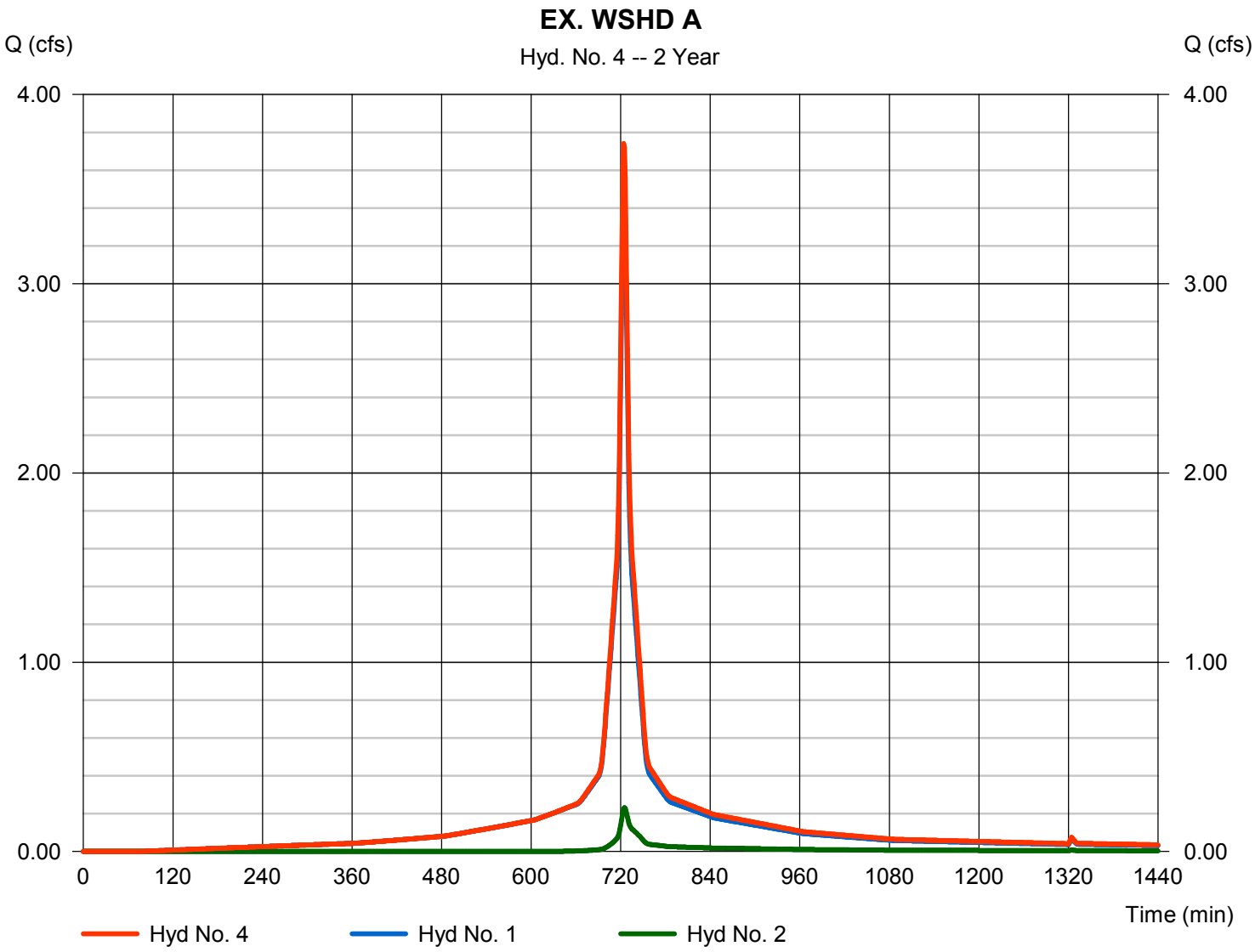
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 4

EX. WSHD A

Hydrograph type	= Combine	Peak discharge	= 3.741 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 12,914 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 1.240 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	5.331	1	724	18,782	------	------	------	EX. WSHD A (IMP)
2	SCS Runoff	0.510	1	725	1,577	------	------	------	EX. WSHD A (PERV)
4	Combine	5.836	1	724	20,359	1, 2,	------	------	EX. WSHD A

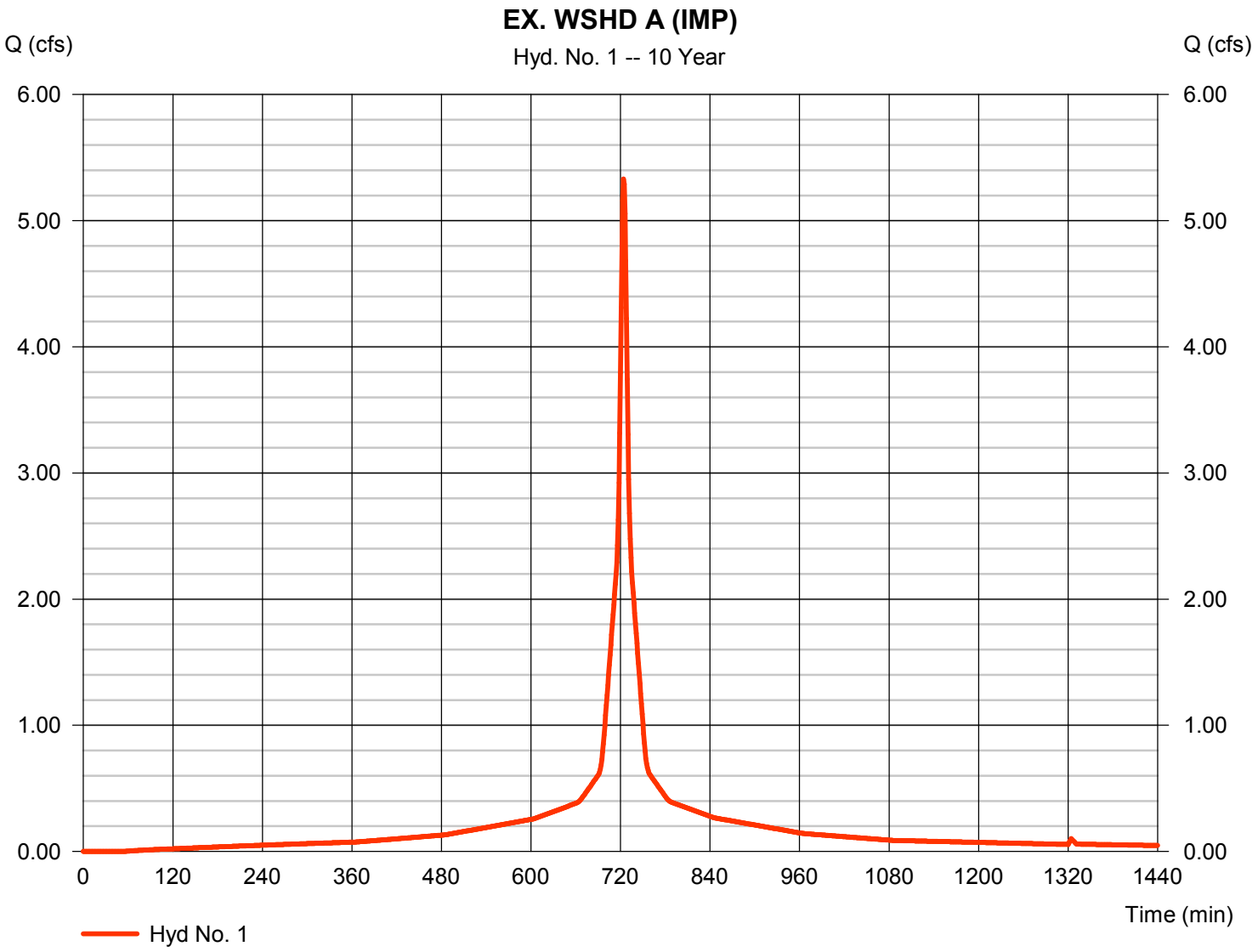
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 1

EX. WSHD A (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 5.331 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 18,782 cuft
Drainage area	= 1.060 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



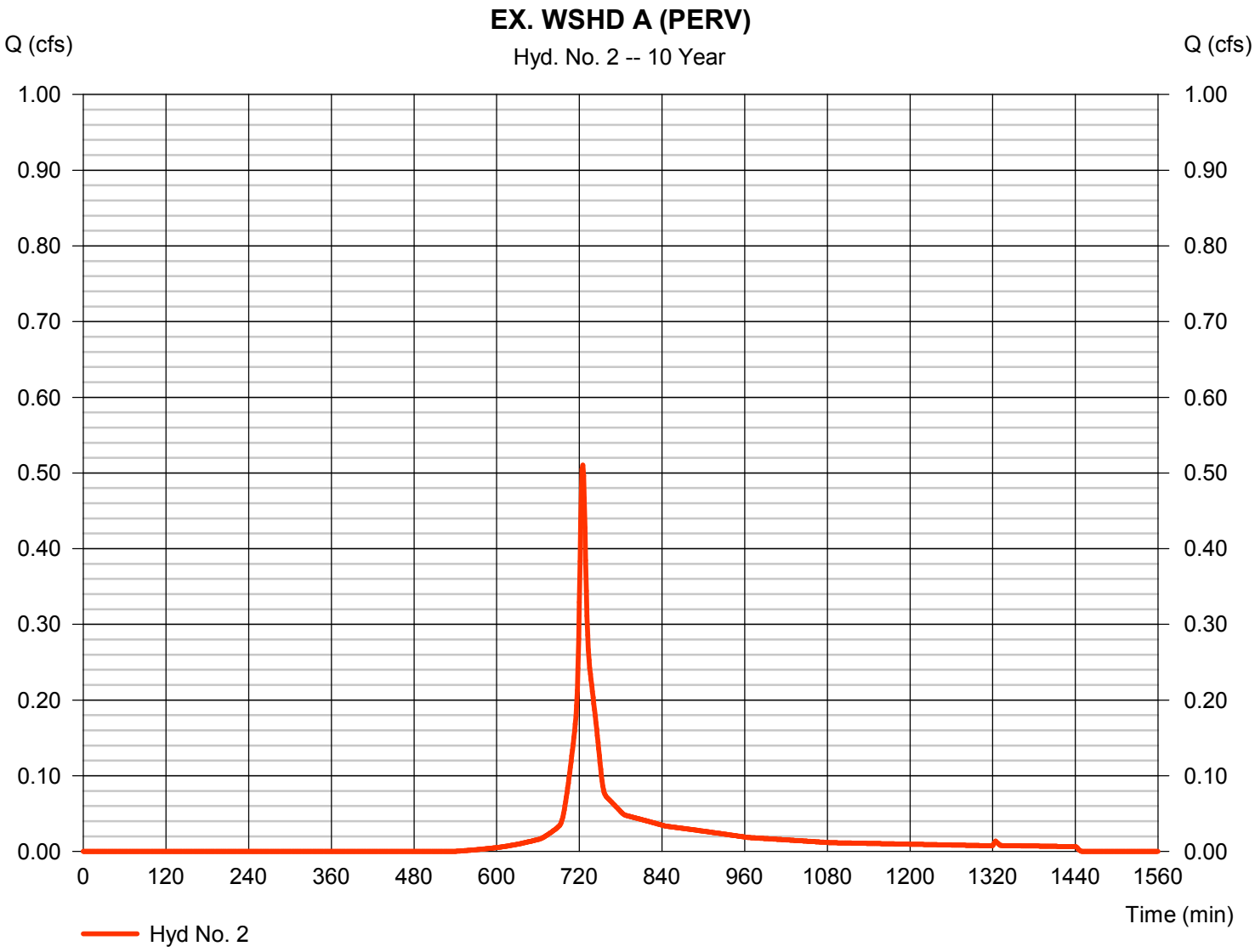
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 2

EX. WSHD A (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.510 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 1,577 cuft
Drainage area	= 0.180 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



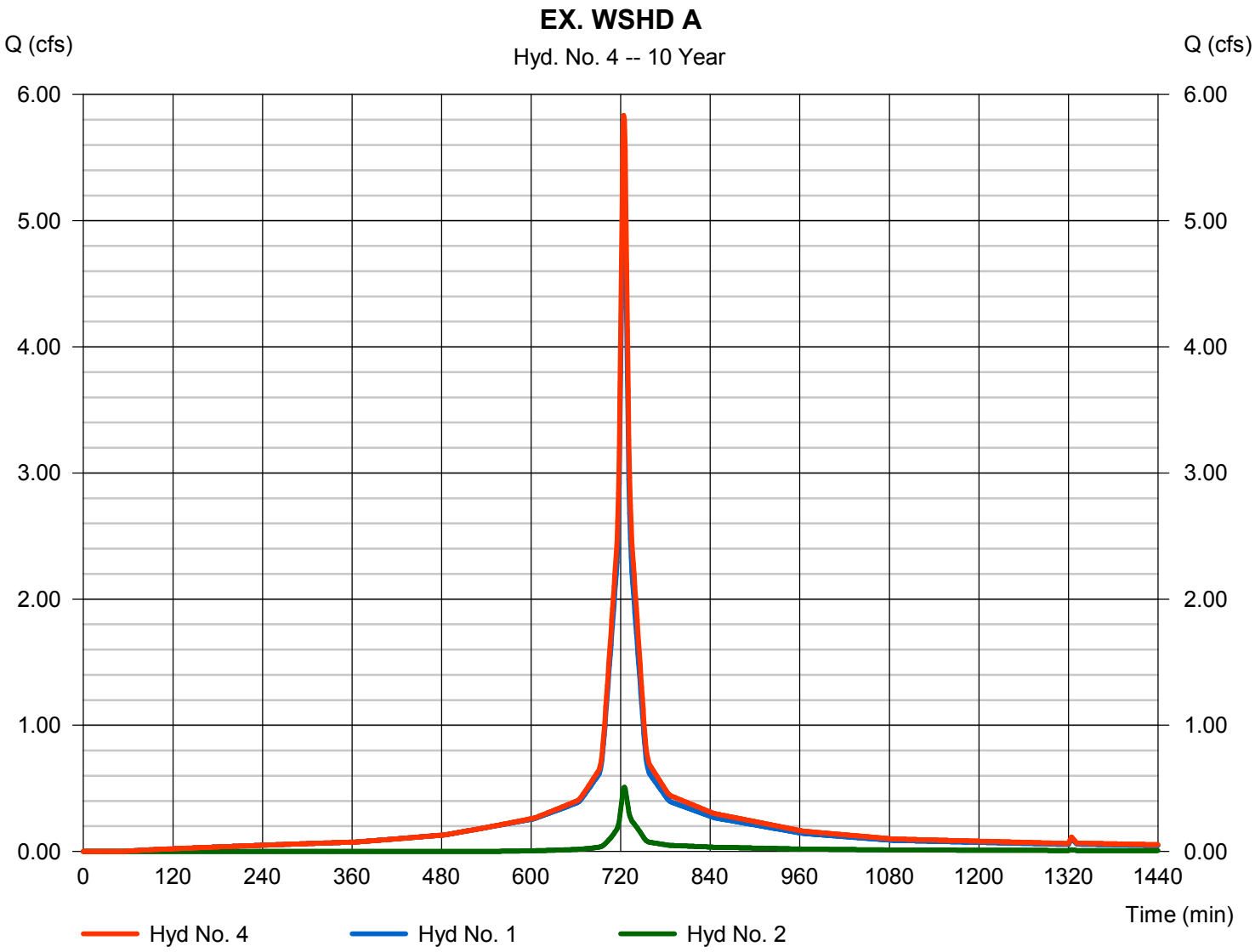
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 4

EX. WSHD A

Hydrograph type	= Combine	Peak discharge	= 5.836 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 20,359 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 1.240 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	8.753	1	724	31,308	------	------	------	EX. WSHD A (IMP)
2	SCS Runoff	1.097	1	725	3,397	------	------	------	EX. WSHD A (PERV)
4	Combine	9.847	1	724	34,706	1, 2,	------	------	EX. WSHD A

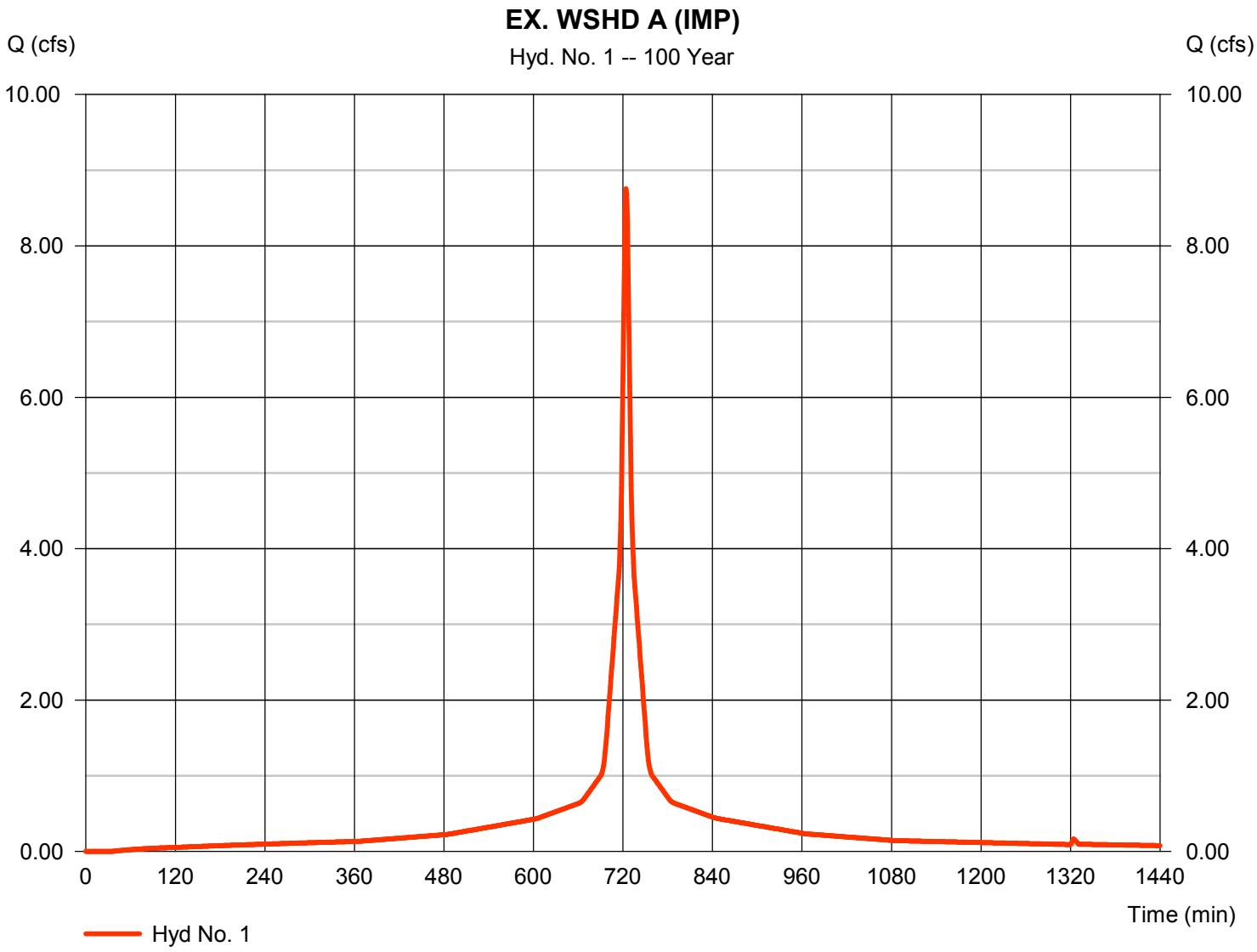
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 1

EX. WSHD A (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 8.753 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 31,308 cuft
Drainage area	= 1.060 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



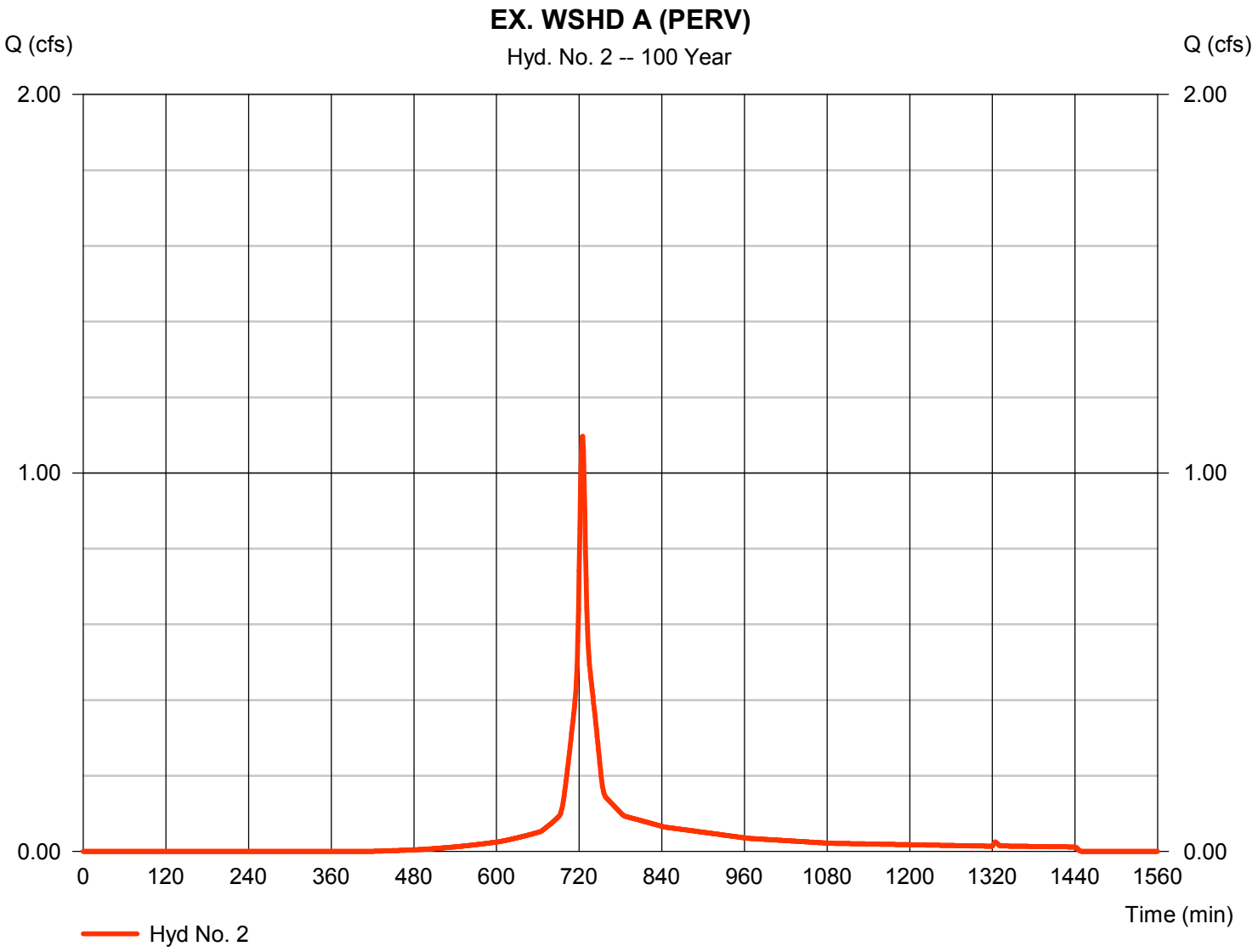
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 2

EX. WSHD A (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 1.097 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 3,397 cuft
Drainage area	= 0.180 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



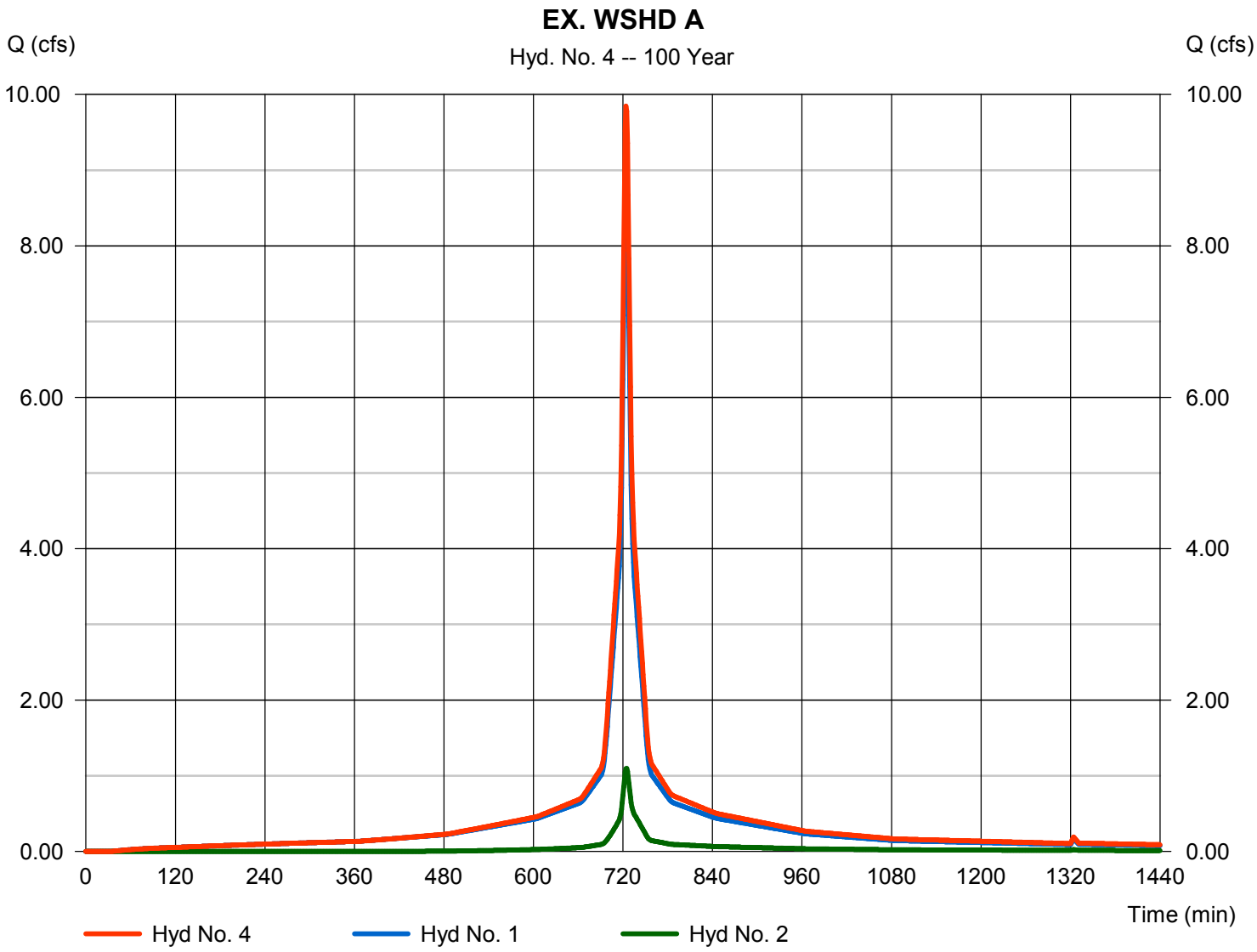
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 4

EX. WSHD A

Hydrograph type	= Combine	Peak discharge	= 9.847 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 34,706 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 1.240 ac



APPENDIX B

Proposed Watershed Calculations

LANGAN

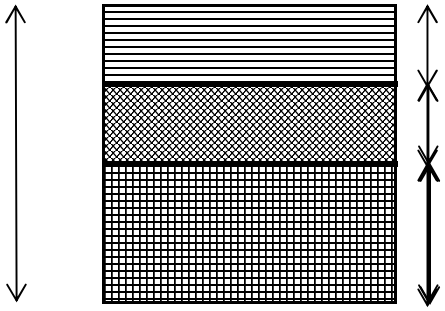
Curve Number[1] Hydrologic Soil Group 'C'	
Impervious	98
Grass	74
Permeable Pavers[2]	68

Notes:

1. Runoff curve number (CN) values were obtained from the USDA "Urban Hydrology for Small Watersheds" TR-55 manual for hydrologic soil group 'B'.

2. Permeable pavers curve number was calculated based on the following:

Permeable Pavers Section



4 inches of Permeable Paver Bock

4 inches of AASHTO #57 Stone
(void ratio = 40%)

8 inches of AASHTO #2 Stone
(void ratio = 40%)

TR-55 Equation 2-4:

$$CN = \frac{1000}{S + 10}$$

Where:
CN = runoff curve number
S = rainfall depth in inches

S_{STONE1} = (4 in.) x (0.40) = 1.6 inches
S_{STONE2} = (8 in.) x (0.40) = 3.2 inches
$S_{TOTAL} = S_{STONE1} + S_{STONE2}$
S_{TOTAL} = 4.8 inches

$$CN = \frac{1000}{S + 10}$$

$$CN = \frac{1000}{4.8 + 10}$$

$$\boxed{CN = 68}$$

Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	SCS Runoff	------	-------	0.128	-------	-------	0.283	-------	-------	0.609	PR. WSHD A-1 (PERV)
2	SCS Runoff	------	-------	0.109	-------	-------	0.286	-------	-------	0.686	PR. WSHD A-1 (PERM PAV)
3	SCS Runoff	------	-------	0.166	-------	-------	0.251	-------	-------	0.413	PR. WSHD A-1 (IMP)
5	Combine	1, 2, 3,	-------	0.402	-------	-------	0.819	-------	-------	1.705	PR. WSHD A-1
7	Reservoir	5	-------	0.178	-------	-------	0.259	-------	-------	0.396	PR. BASIN-1
9	SCS Runoff	------	-------	0.090	-------	-------	0.198	-------	-------	0.427	PR. WSHD A-2 (PERV)
10	SCS Runoff	------	-------	0.084	-------	-------	0.220	-------	-------	0.528	PR. WSHD A-2 (PERM PAV)
11	SCS Runoff	------	-------	0.232	-------	-------	0.352	-------	-------	0.578	PR. WSHD A-2 (IMP)
13	Combine	9, 10, 11,	-------	0.404	-------	-------	0.768	-------	-------	1.528	PR. WSHD A-2
15	Reservoir	13	-------	0.177	-------	-------	0.241	-------	-------	0.343	PR. BASIN-2
17	SCS Runoff	------	-------	0.218	-------	-------	0.482	-------	-------	1.036	PR. WSHD A-3 (PERV)
18	SCS Runoff	------	-------	0.033	-------	-------	0.050	-------	-------	0.083	PR. WSHD A-3 (IMP)
20	Combine	17, 18,	-------	0.251	-------	-------	0.532	-------	-------	1.118	PR. WSHD A-3
22	Reservoir	20	-------	0.145	-------	-------	0.197	-------	-------	0.273	PR. BASIN-3
24	SCS Runoff	------	-------	0.265	-------	-------	0.402	-------	-------	0.661	PR. WSHD A-4
26	SCS Runoff	------	-------	0.128	-------	-------	0.283	-------	-------	0.609	PR. WSHD A-5 (PERV)
27	SCS Runoff	------	-------	0.033	-------	-------	0.088	-------	-------	0.211	PR. WSHD A-5 (PERM)
28	SCS Runoff	------	-------	1.061	-------	-------	1.609	-------	-------	2.642	PR. WSHD A-5 (IMP)
30	Combine	26, 27, 28,	-------	1.219	-------	-------	1.976	-------	-------	3.460	PR. WSHD A-5
32	Combine	7, 15, 22, 24, 30,	-------	1.917	-------	-------	2.953	-------	-------	4.921	PR. WSHD A

Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	0.128	1	725	413	------	------	------	PR. WSHD A-1 (PERV)
2	SCS Runoff	0.109	1	725	383	------	------	------	PR. WSHD A-1 (PERM PAV)
3	SCS Runoff	0.166	1	724	574	------	------	------	PR. WSHD A-1 (IMP)
5	Combine	0.402	1	725	1,371	1, 2, 3,	------	------	PR. WSHD A-1
7	Reservoir	0.178	1	738	1,368	5	0.69	197	PR. BASIN-1
9	SCS Runoff	0.090	1	725	289	------	------	------	PR. WSHD A-2 (PERV)
10	SCS Runoff	0.084	1	725	295	------	------	------	PR. WSHD A-2 (PERM PAV)
11	SCS Runoff	0.232	1	724	804	------	------	------	PR. WSHD A-2 (IMP)
13	Combine	0.404	1	725	1,388	9, 10, 11,	------	------	PR. WSHD A-2
15	Reservoir	0.177	1	737	1,386	13	1.04	197	PR. BASIN-2
17	SCS Runoff	0.218	1	725	703	------	------	------	PR. WSHD A-3 (PERV)
18	SCS Runoff	0.033	1	724	115	------	------	------	PR. WSHD A-3 (IMP)
20	Combine	0.251	1	725	817	17, 18,	------	------	PR. WSHD A-3
22	Reservoir	0.145	1	732	815	20	1.15	104	PR. BASIN-3
24	SCS Runoff	0.265	1	724	919	------	------	------	PR. WSHD A-4
26	SCS Runoff	0.128	1	725	413	------	------	------	PR. WSHD A-5 (PERV)
27	SCS Runoff	0.033	1	725	118	------	------	------	PR. WSHD A-5 (PERM)
28	SCS Runoff	1.061	1	724	3,674	------	------	------	PR. WSHD A-5 (IMP)
30	Combine	1.219	1	724	4,205	26, 27, 28,	------	------	PR. WSHD A-5
32	Combine	1.917	1	725	8,692	7, 15, 22, 24, 30,	------	------	PR. WSHD A

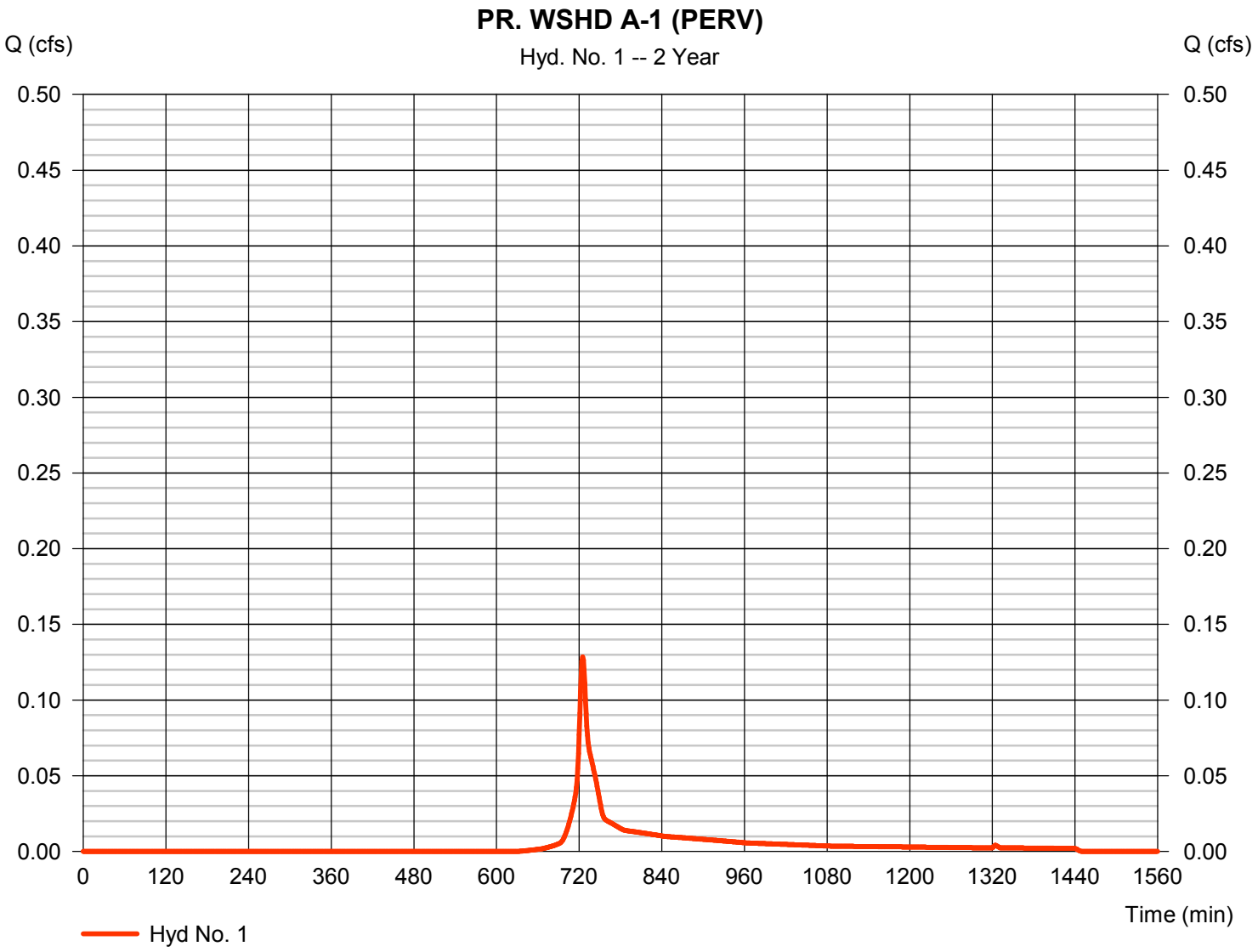
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 1

PR. WSHD A-1 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.128 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 413 cuft
Drainage area	= 0.100 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



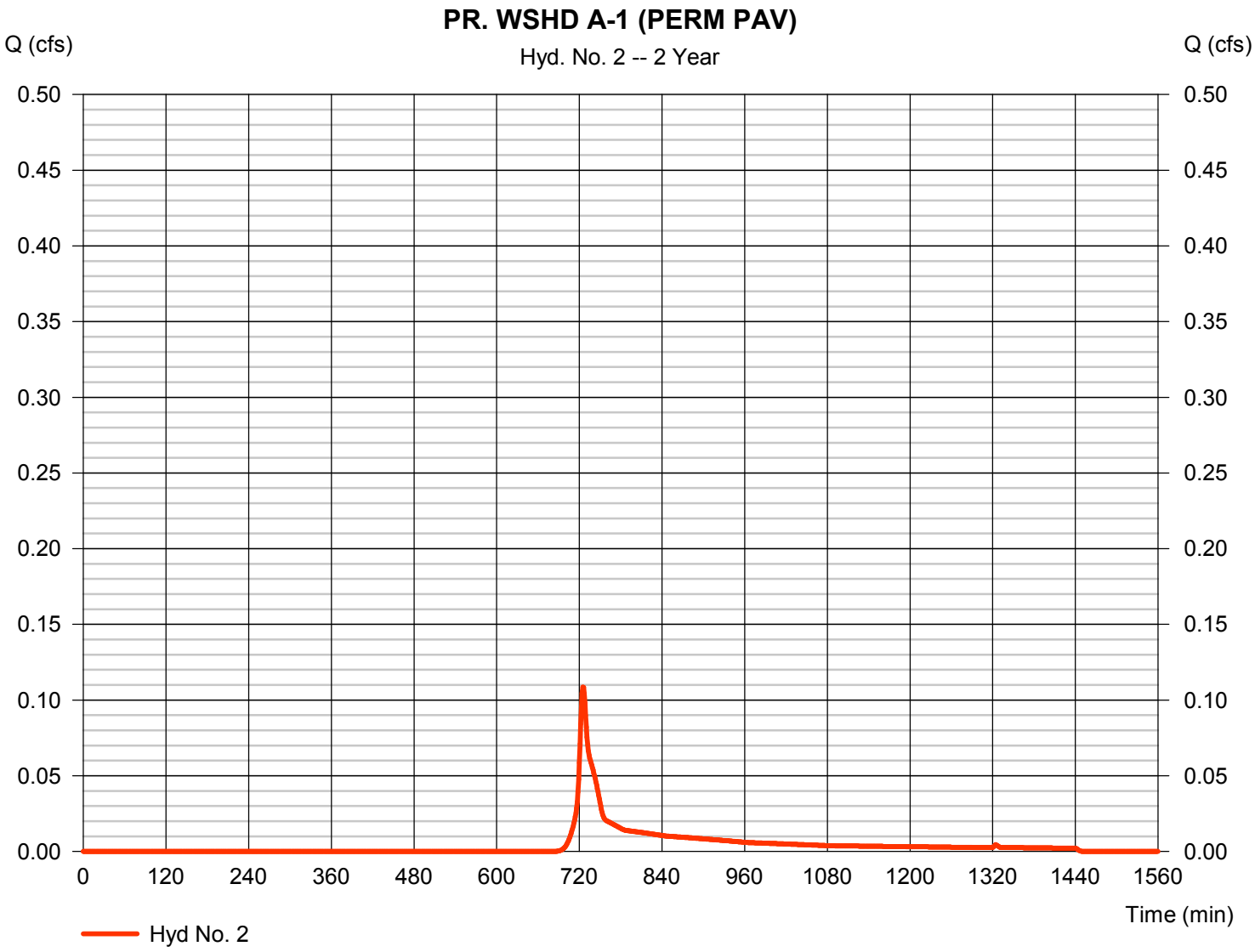
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 2

PR. WSHD A-1 (PERM PAV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.109 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 383 cuft
Drainage area	= 0.130 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



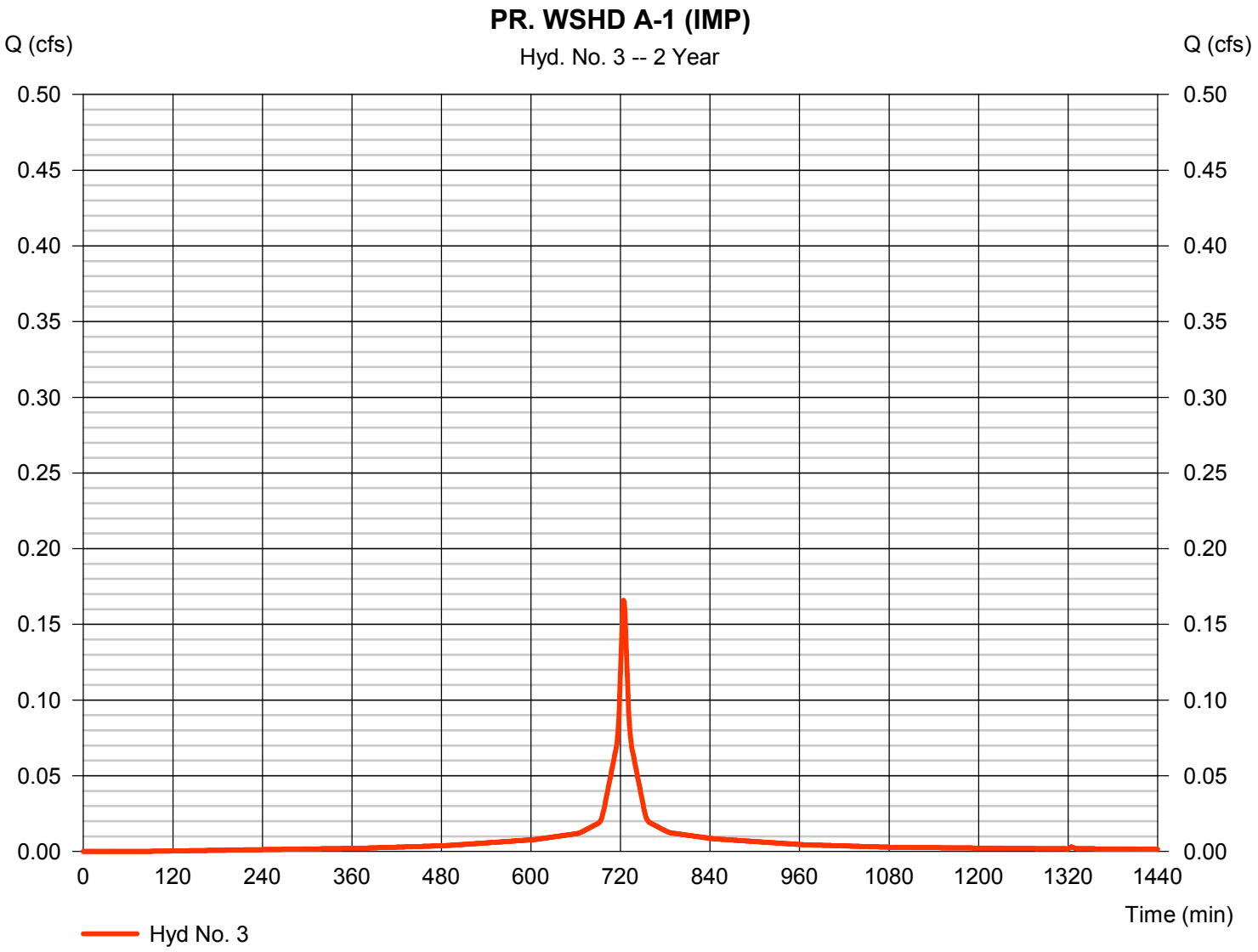
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 3

PR. WSHD A-1 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.166 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 574 cuft
Drainage area	= 0.050 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



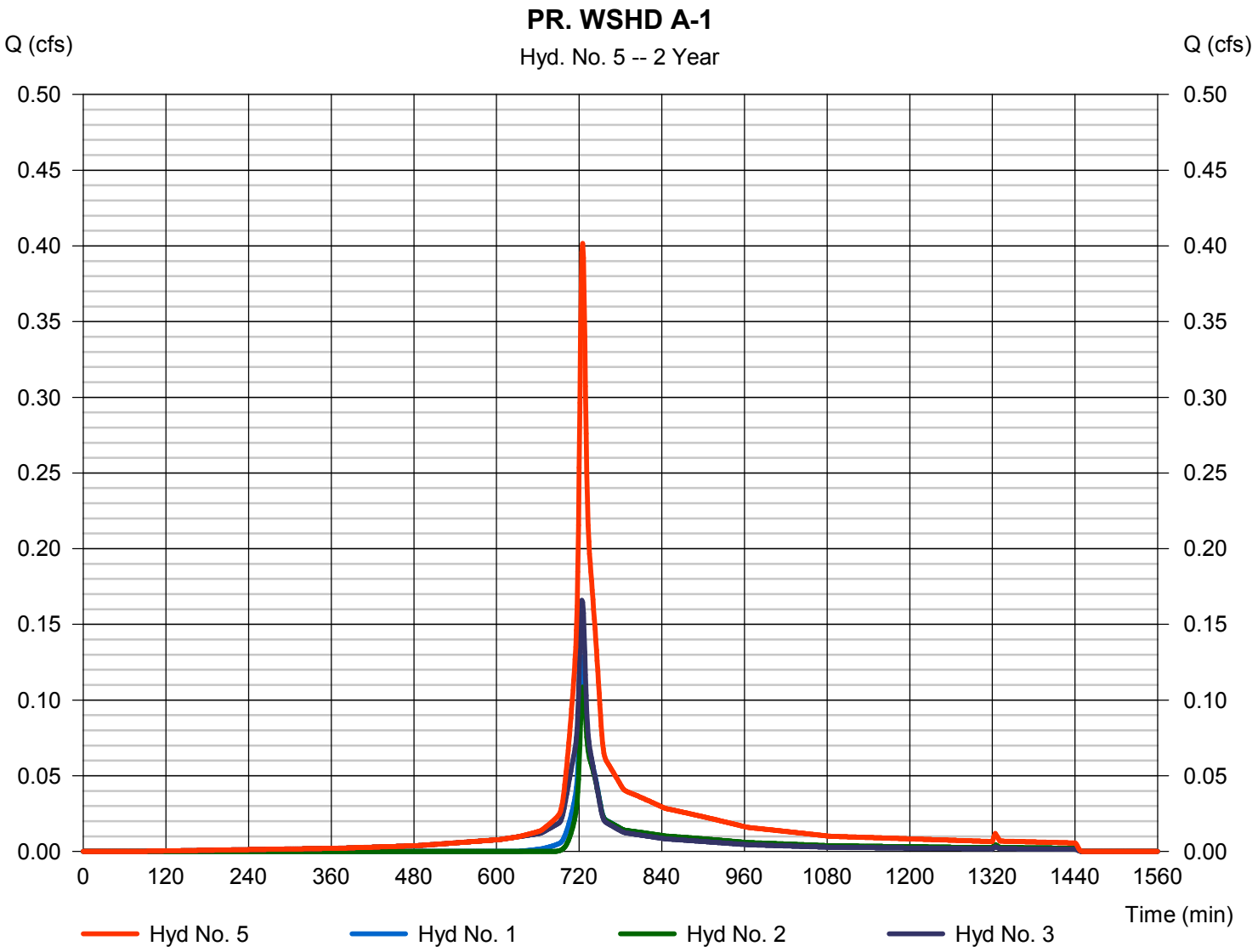
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 5

PR. WSHD A-1

Hydrograph type	= Combine	Peak discharge	= 0.402 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 1,371 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 0.280 ac



Hydrograph Report

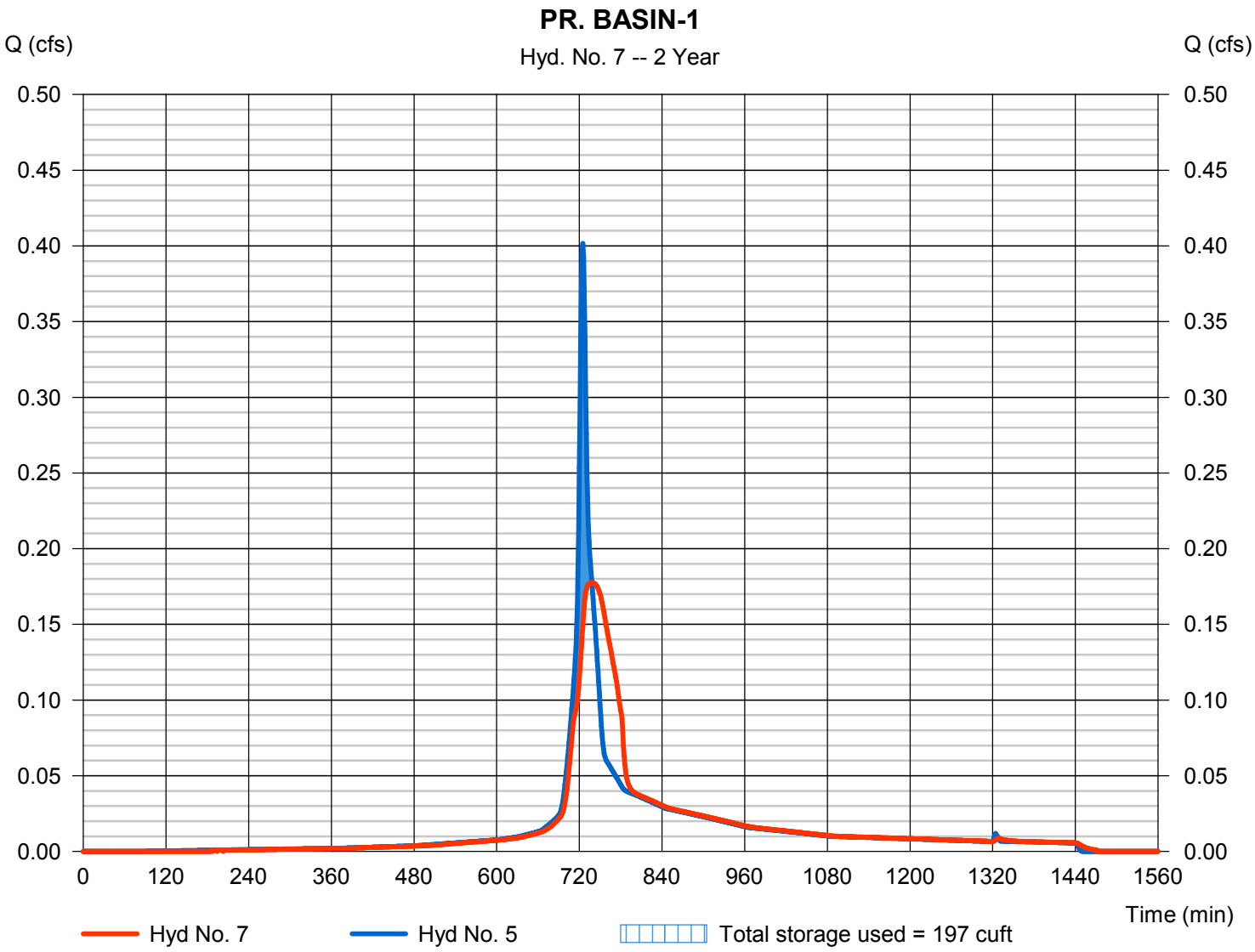
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 7

PR. BASIN-1

Hydrograph type	= Reservoir	Peak discharge	= 0.178 cfs
Storm frequency	= 2 yrs	Time to peak	= 738 min
Time interval	= 1 min	Hyd. volume	= 1,368 cuft
Inflow hyd. No.	= 5 - PR. WSHD A-1	Max. Elevation	= 0.69 ft
Reservoir name	= BASIN-1	Max. Storage	= 197 cuft

Storage Indication method used.



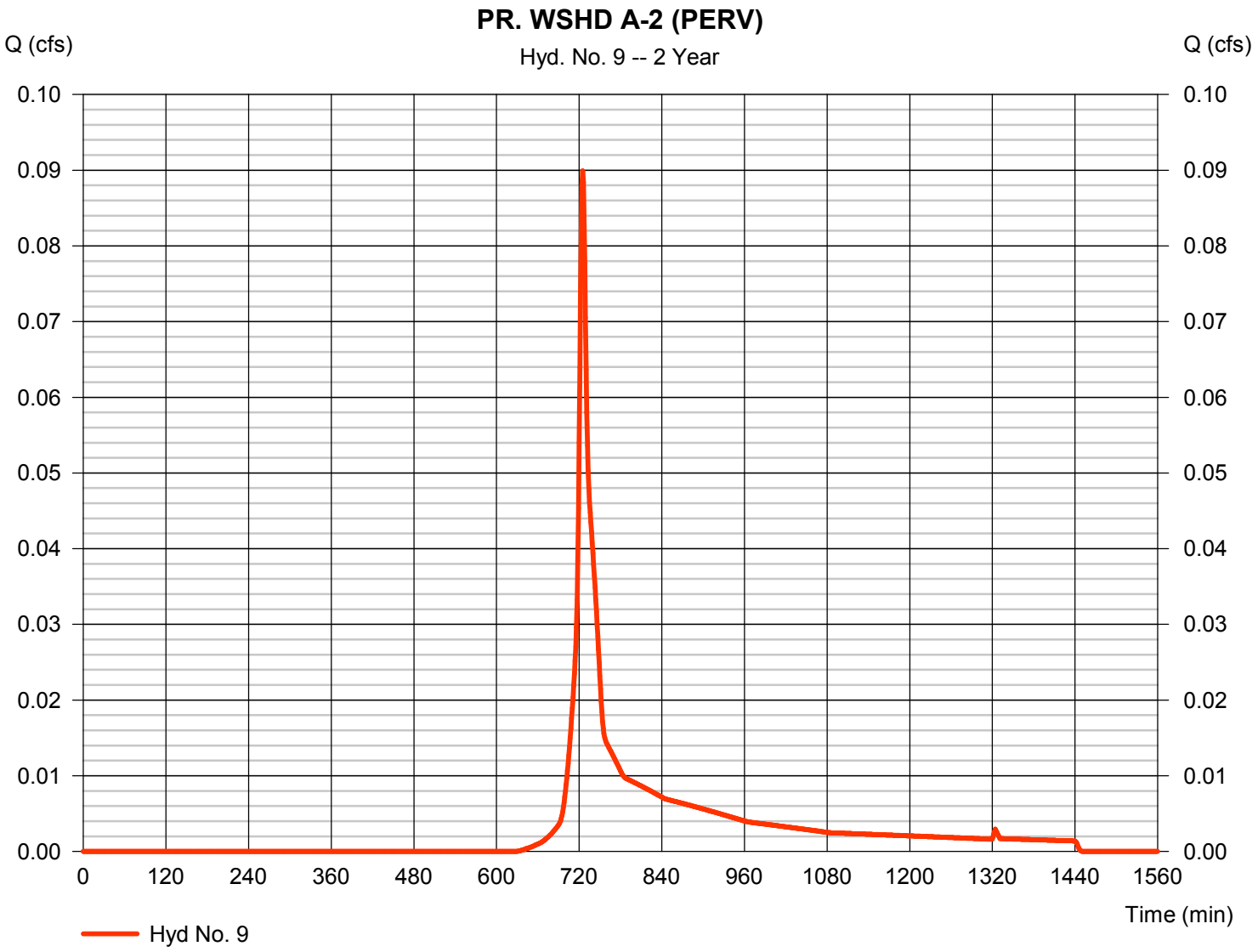
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 9

PR. WSHD A-2 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.090 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 289 cuft
Drainage area	= 0.070 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



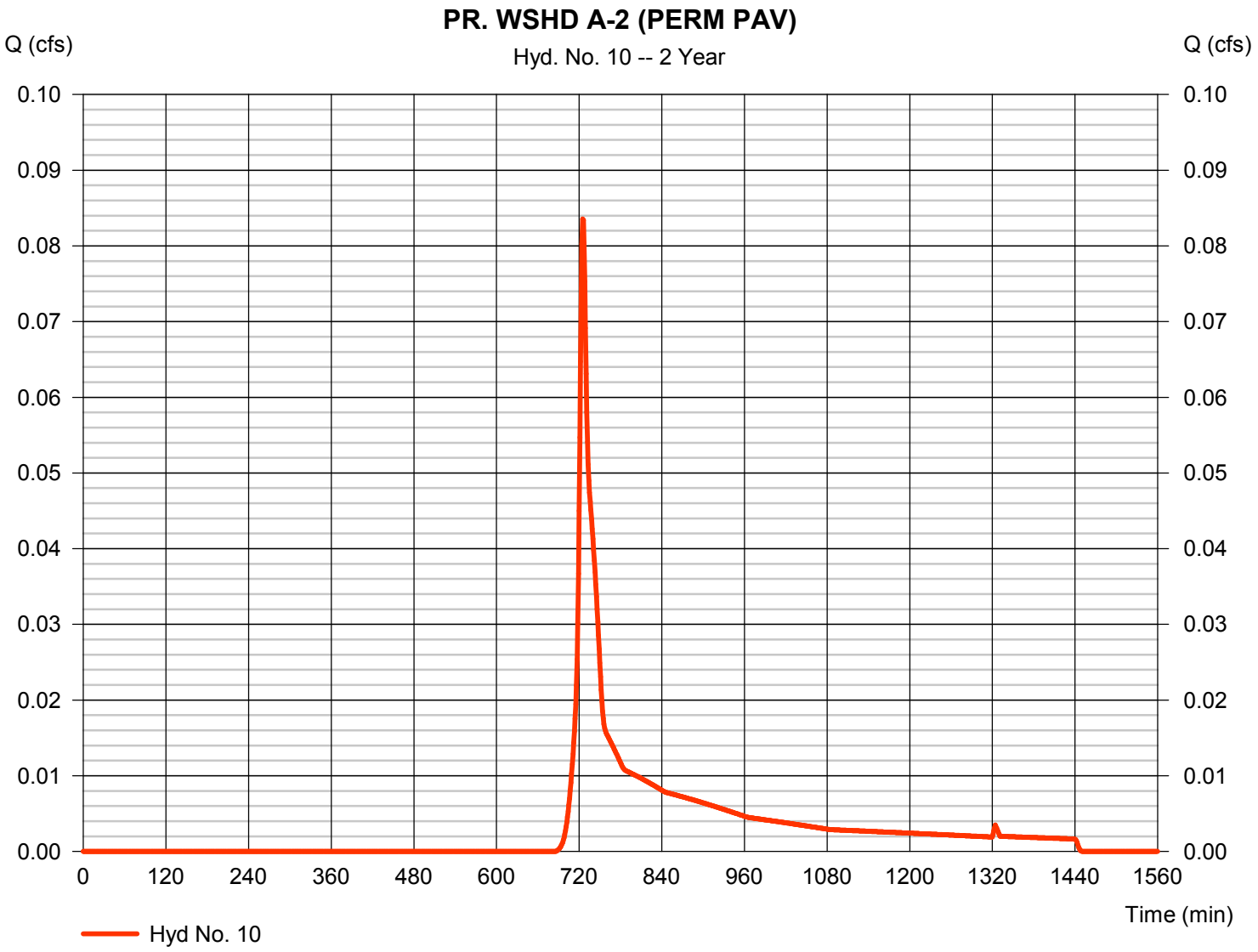
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 10

PR. WSHD A-2 (PERM PAV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.084 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 295 cuft
Drainage area	= 0.100 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



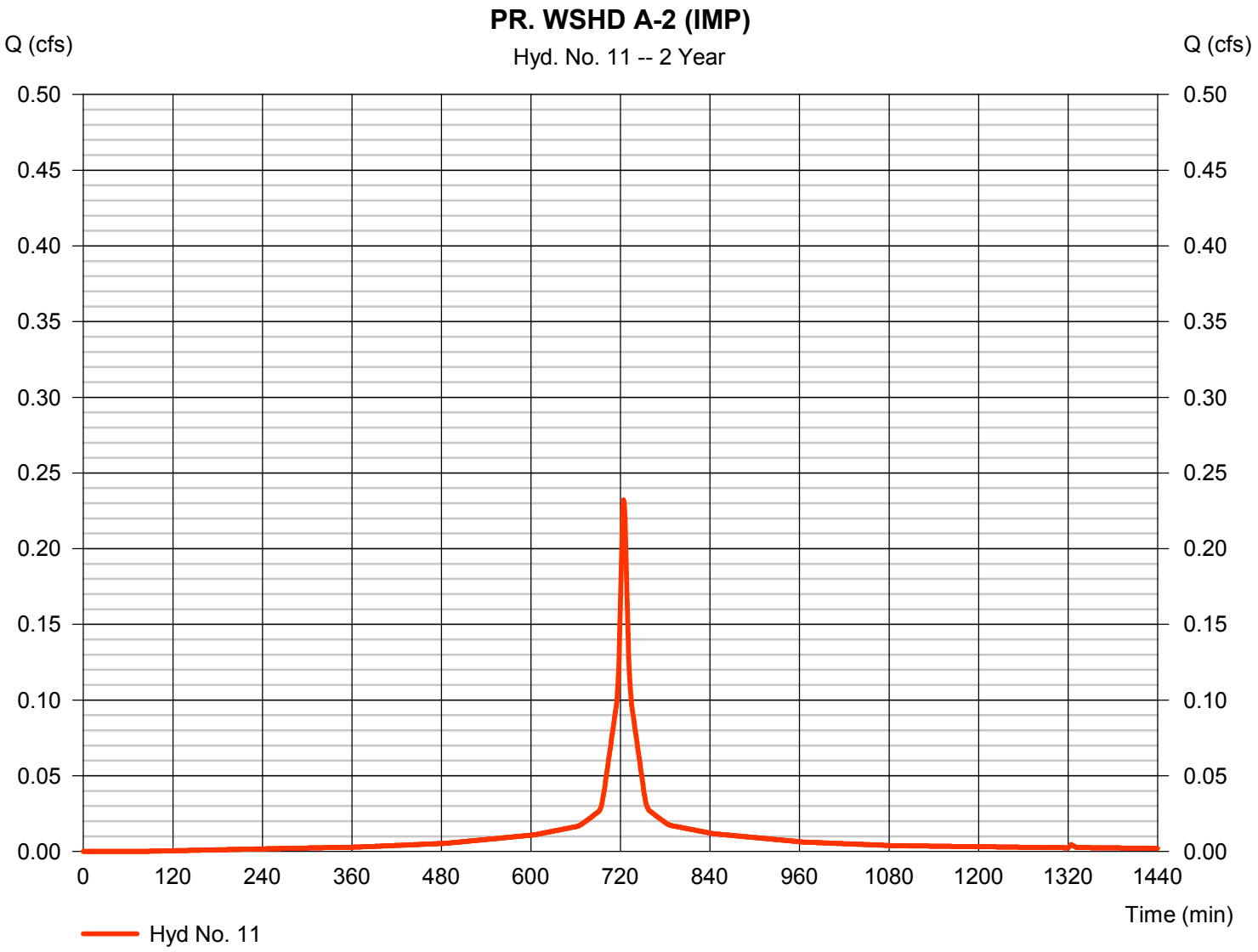
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 11

PR. WSHD A-2 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.232 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 804 cuft
Drainage area	= 0.070 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



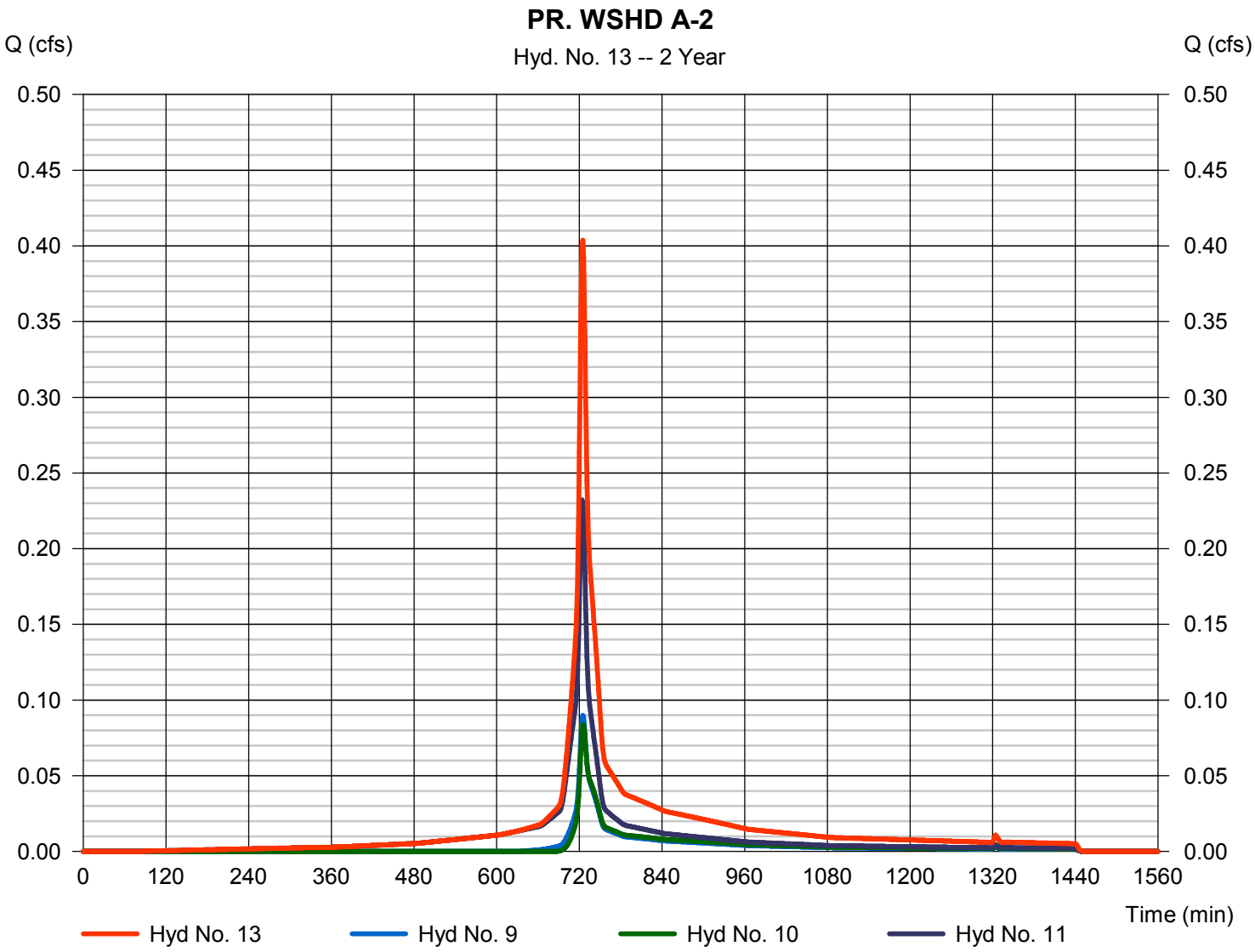
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 13

PR. WSHD A-2

Hydrograph type	= Combine	Peak discharge	= 0.404 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 1,388 cuft
Inflow hyds.	= 9, 10, 11	Contrib. drain. area	= 0.240 ac



Hydrograph Report

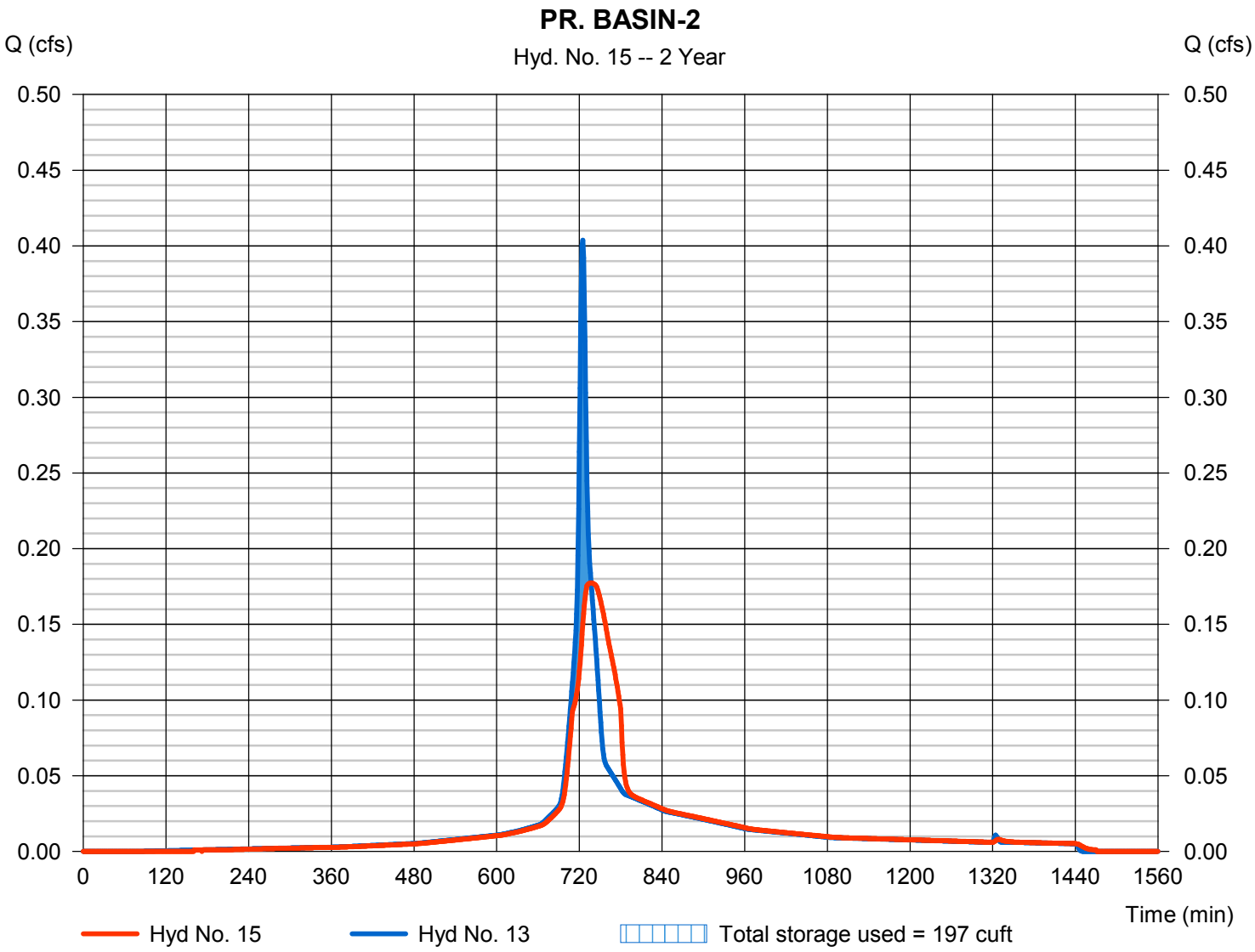
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 15

PR. BASIN-2

Hydrograph type	= Reservoir	Peak discharge	= 0.177 cfs
Storm frequency	= 2 yrs	Time to peak	= 737 min
Time interval	= 1 min	Hyd. volume	= 1,386 cuft
Inflow hyd. No.	= 13 - PR. WSHD A-2	Max. Elevation	= 1.04 ft
Reservoir name	= BASIN-2	Max. Storage	= 197 cuft

Storage Indication method used.



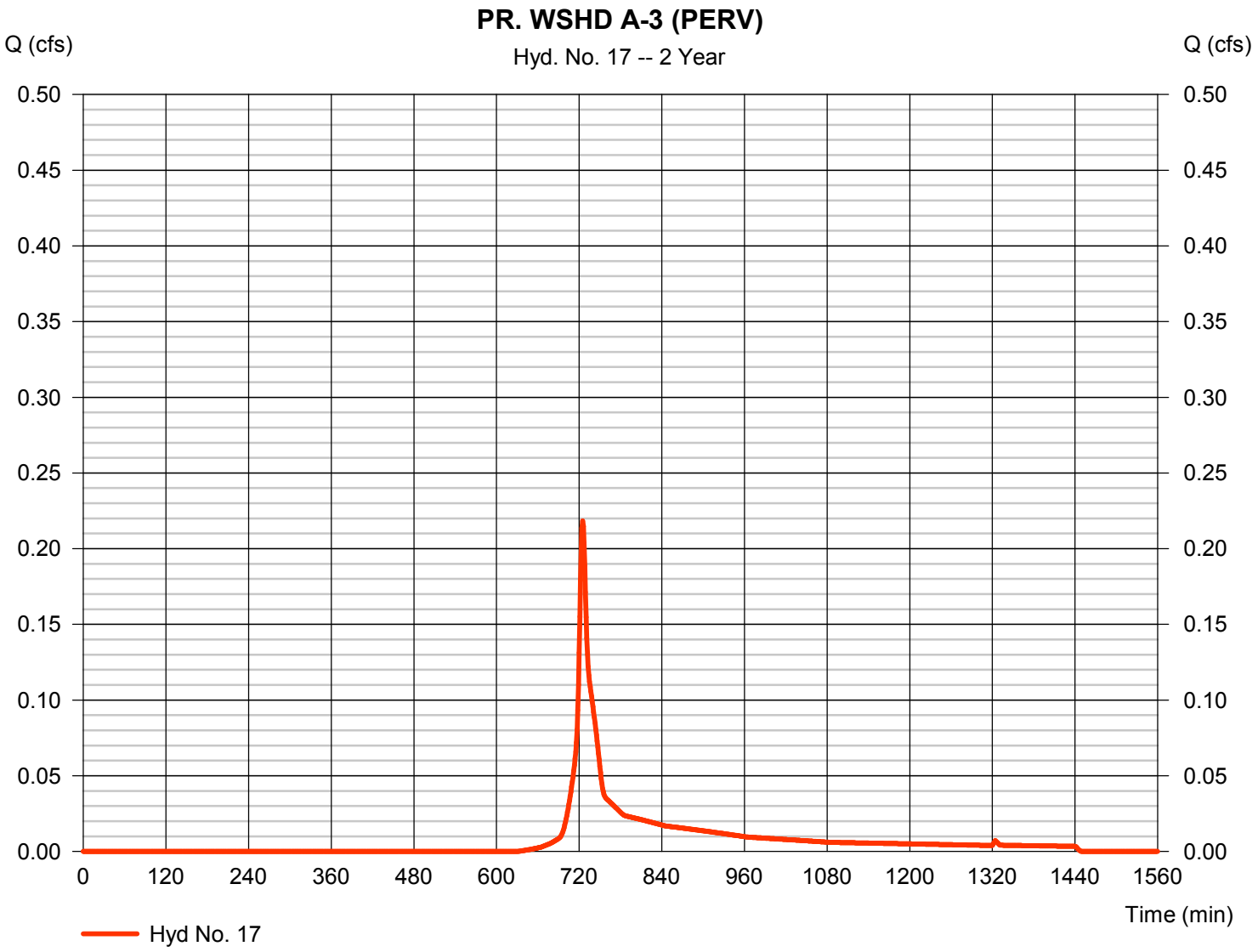
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 17

PR. WSHD A-3 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.218 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 703 cuft
Drainage area	= 0.170 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



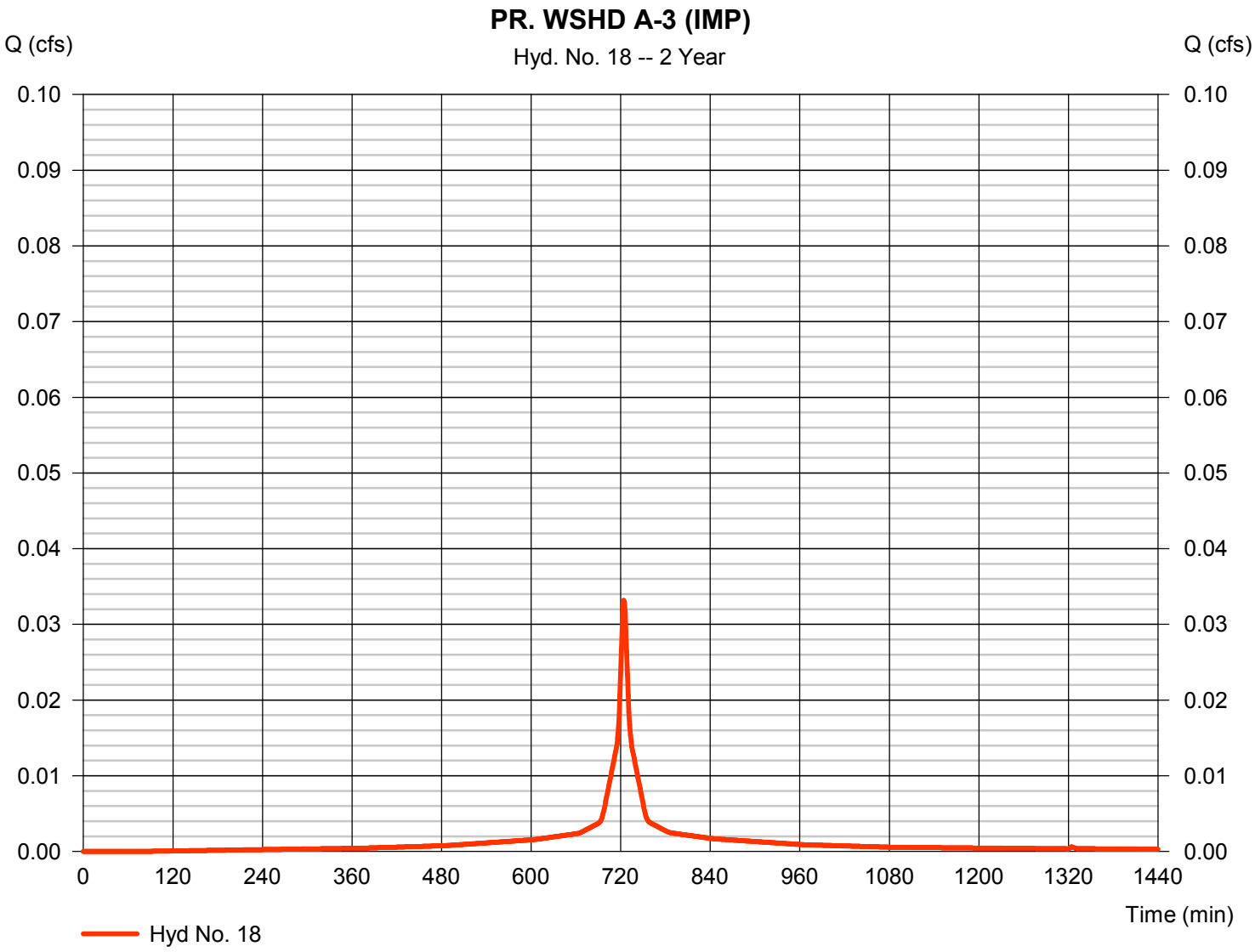
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 18

PR. WSHD A-3 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.033 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 115 cuft
Drainage area	= 0.010 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



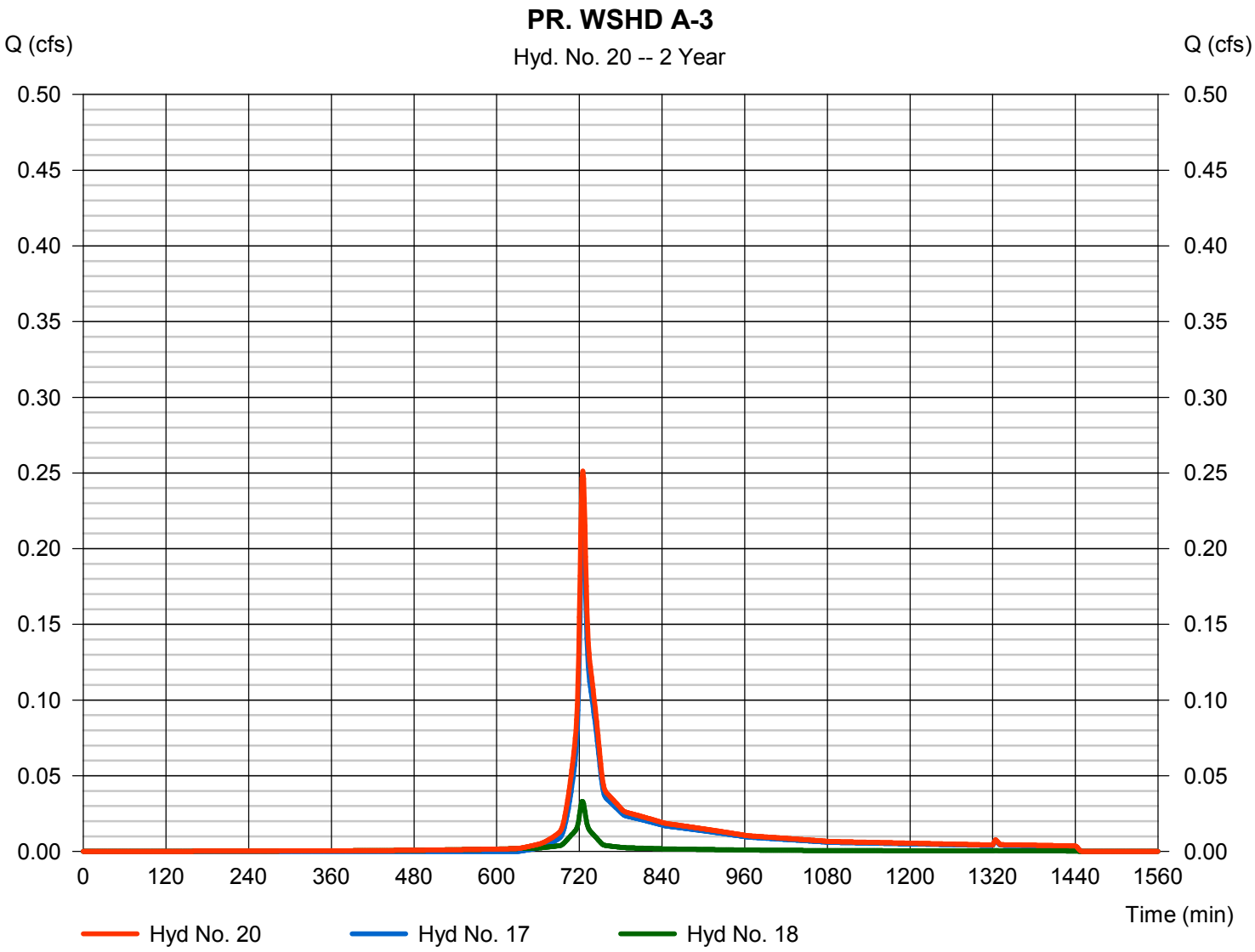
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 20

PR. WSHD A-3

Hydrograph type	= Combine	Peak discharge	= 0.251 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 817 cuft
Inflow hyds.	= 17, 18	Contrib. drain. area	= 0.180 ac



Hydrograph Report

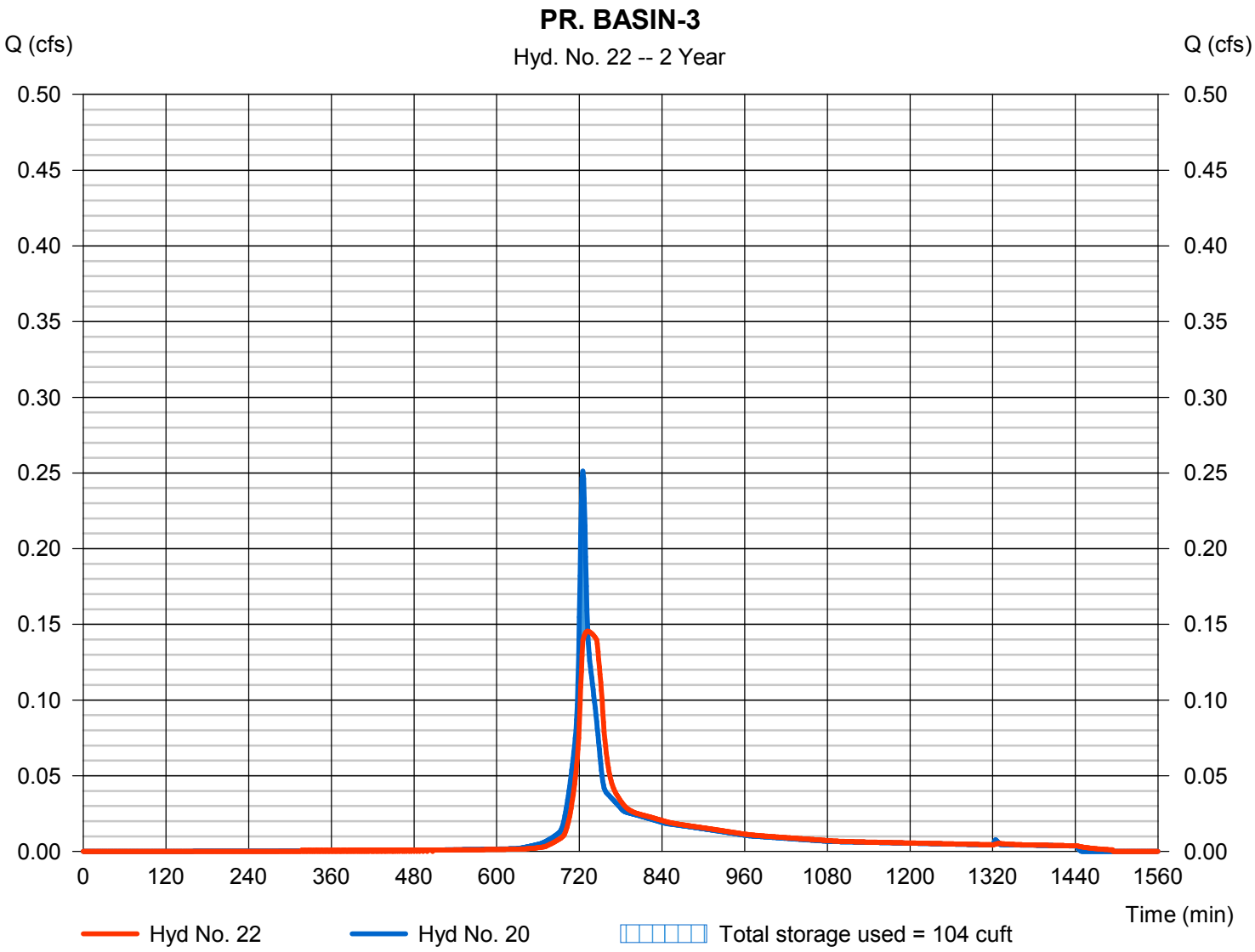
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 22

PR. BASIN-3

Hydrograph type	= Reservoir	Peak discharge	= 0.145 cfs
Storm frequency	= 2 yrs	Time to peak	= 732 min
Time interval	= 1 min	Hyd. volume	= 815 cuft
Inflow hyd. No.	= 20 - PR. WSHD A-3	Max. Elevation	= 1.15 ft
Reservoir name	= BASIN-3	Max. Storage	= 104 cuft

Storage Indication method used.



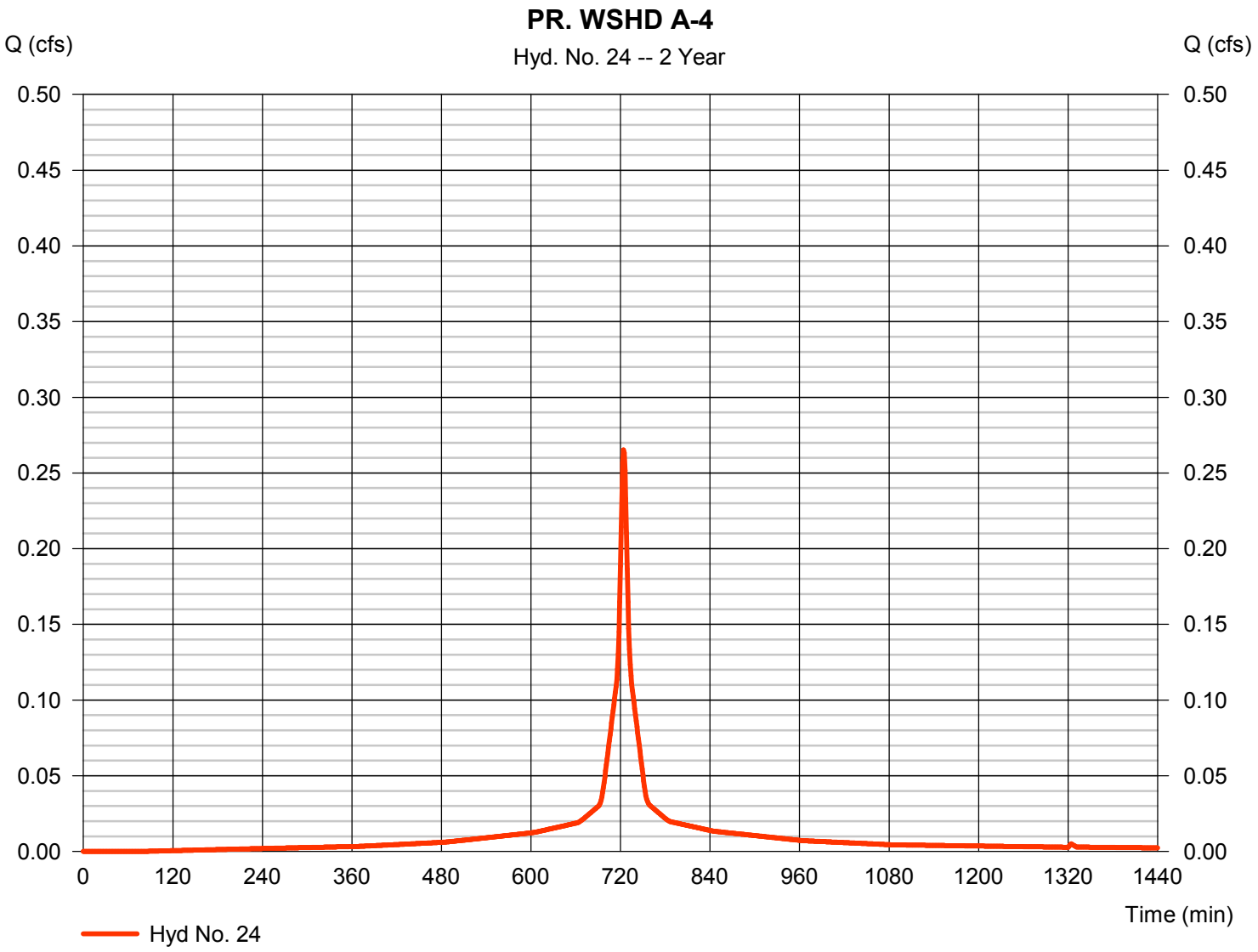
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 24

PR. WSHD A-4

Hydrograph type	= SCS Runoff	Peak discharge	= 0.265 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 919 cuft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



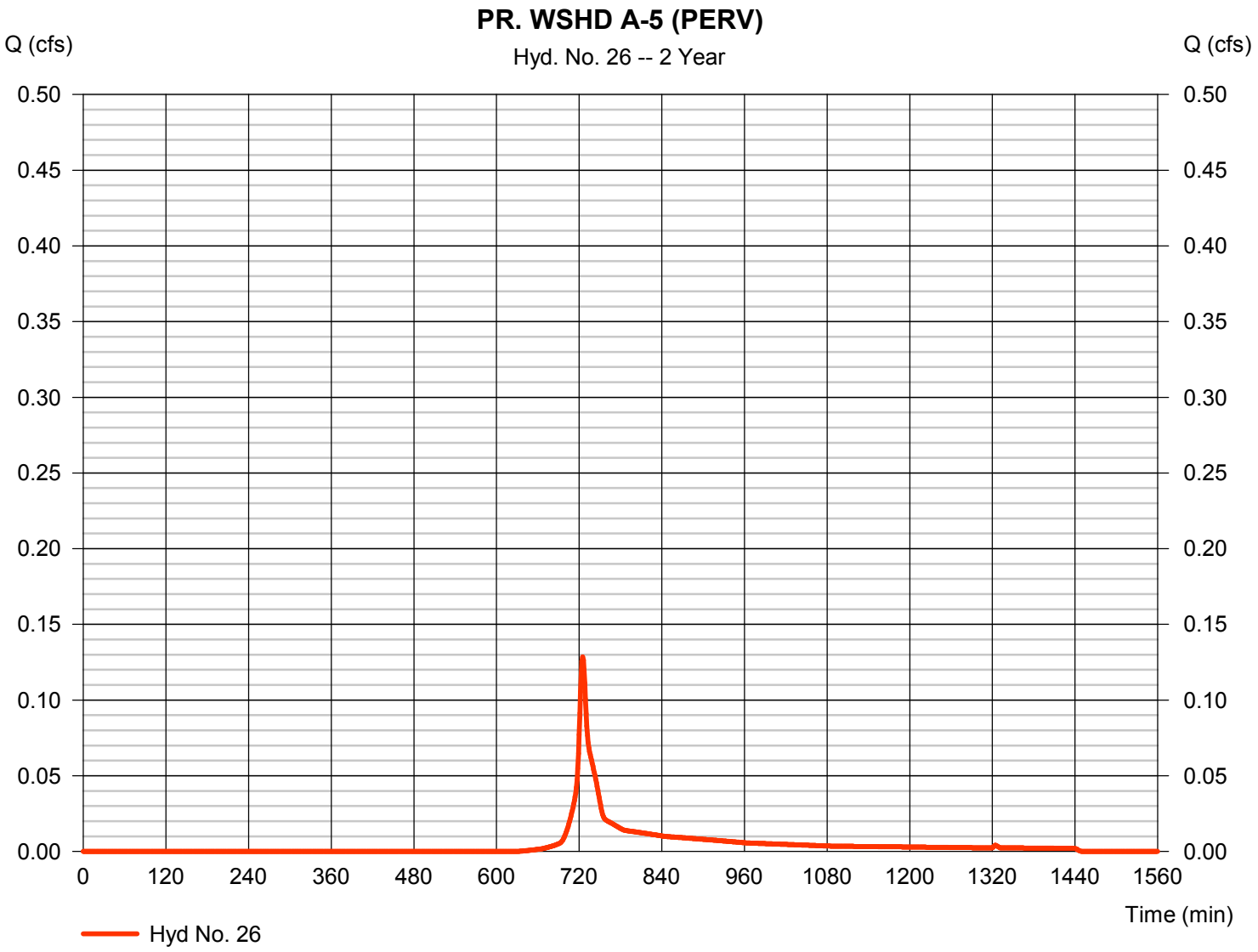
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 26

PR. WSHD A-5 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.128 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 413 cuft
Drainage area	= 0.100 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



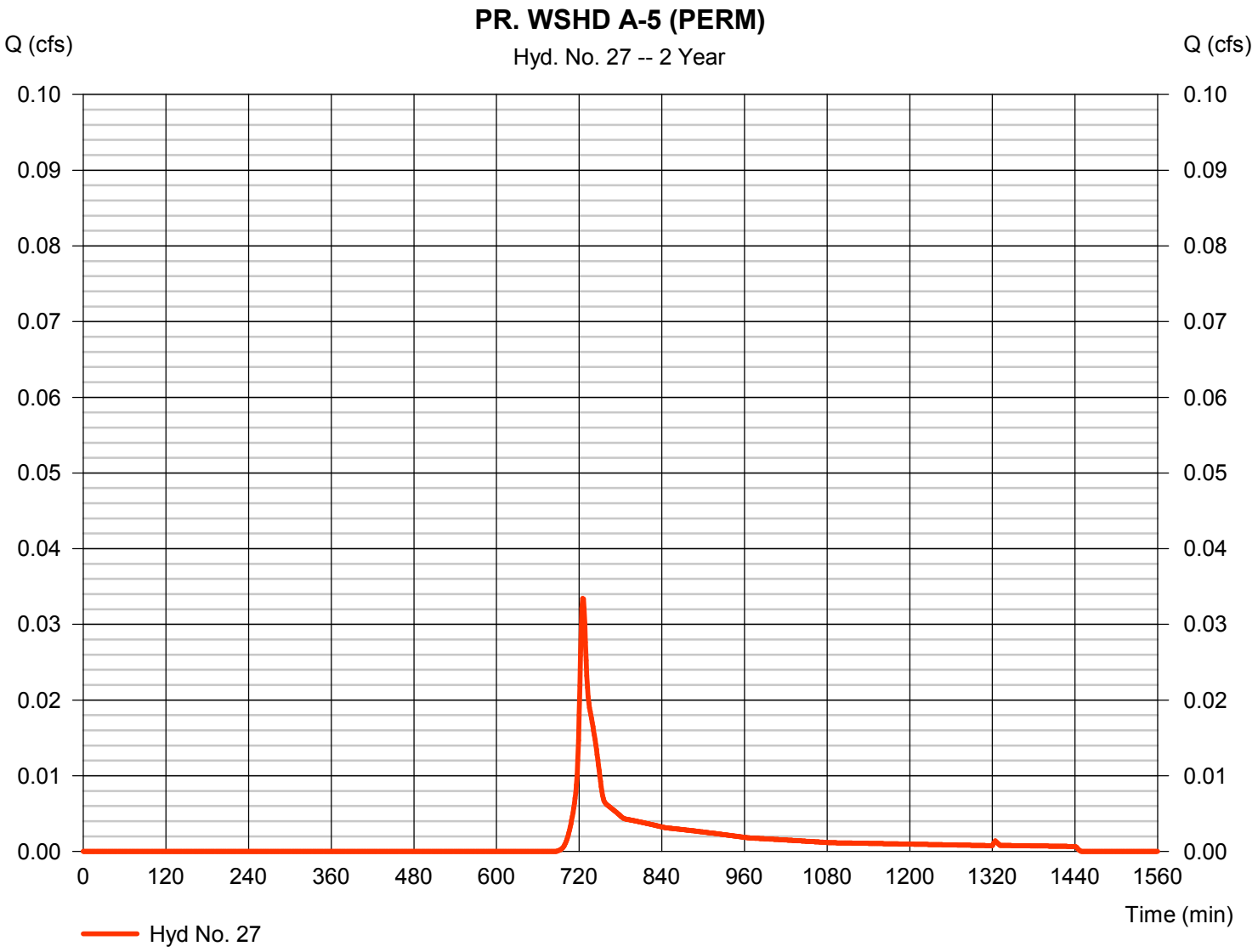
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 27

PR. WSHD A-5 (PERM)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.033 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 118 cuft
Drainage area	= 0.040 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



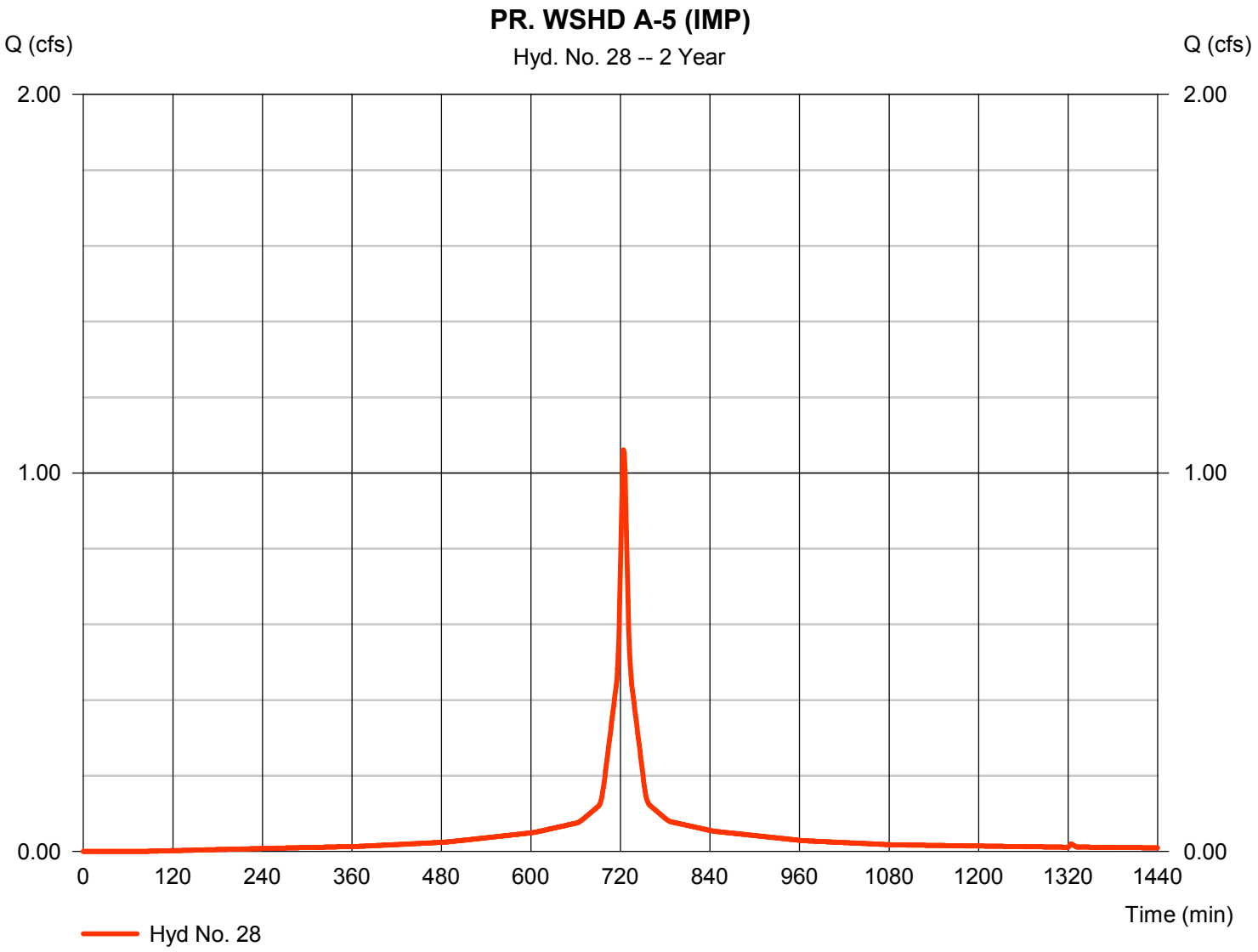
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 28

PR. WSHD A-5 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 1.061 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 3,674 cuft
Drainage area	= 0.320 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.30 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



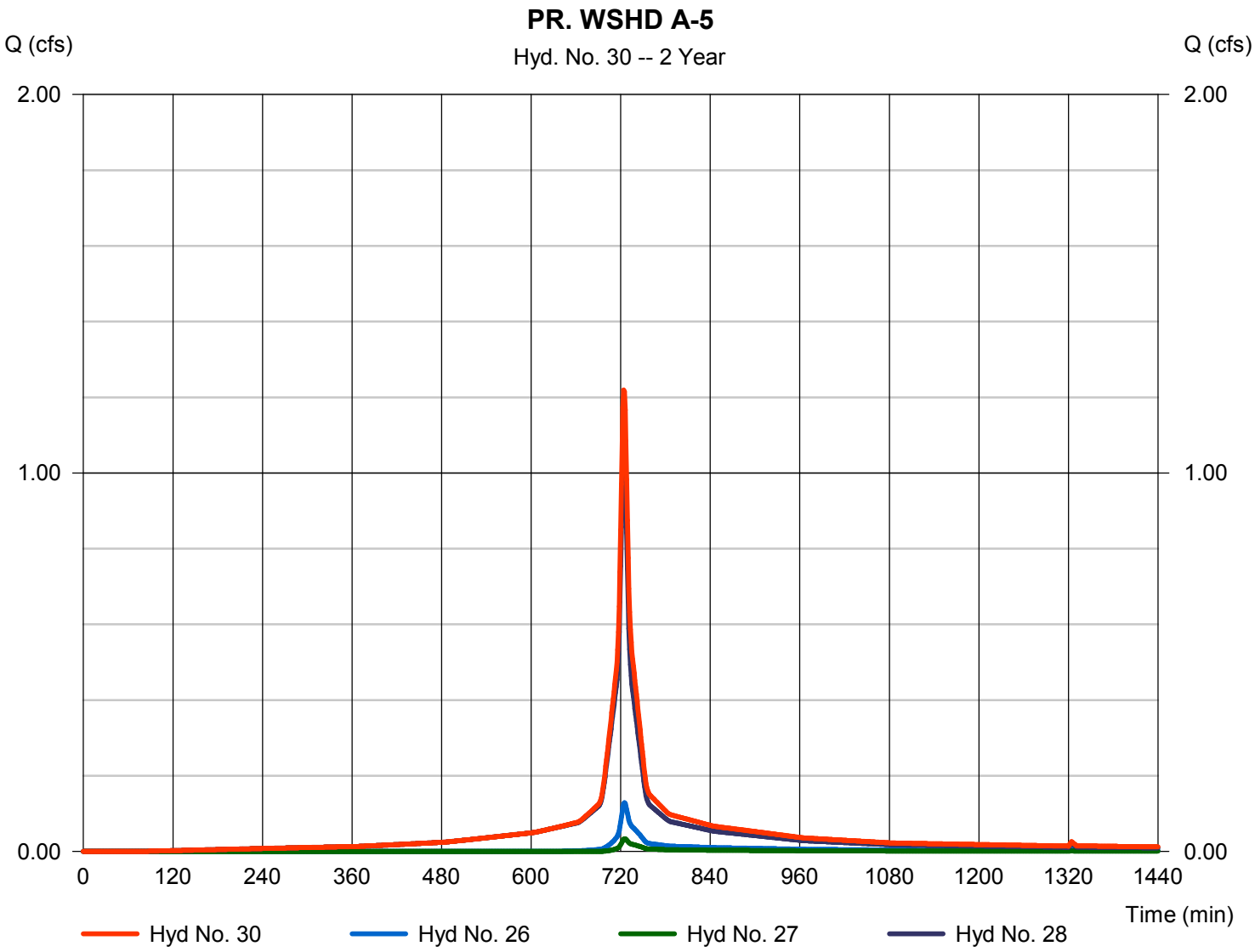
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 30

PR. WSHD A-5

Hydrograph type	= Combine	Peak discharge	= 1.219 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 4,205 cuft
Inflow hyds.	= 26, 27, 28	Contrib. drain. area	= 0.460 ac



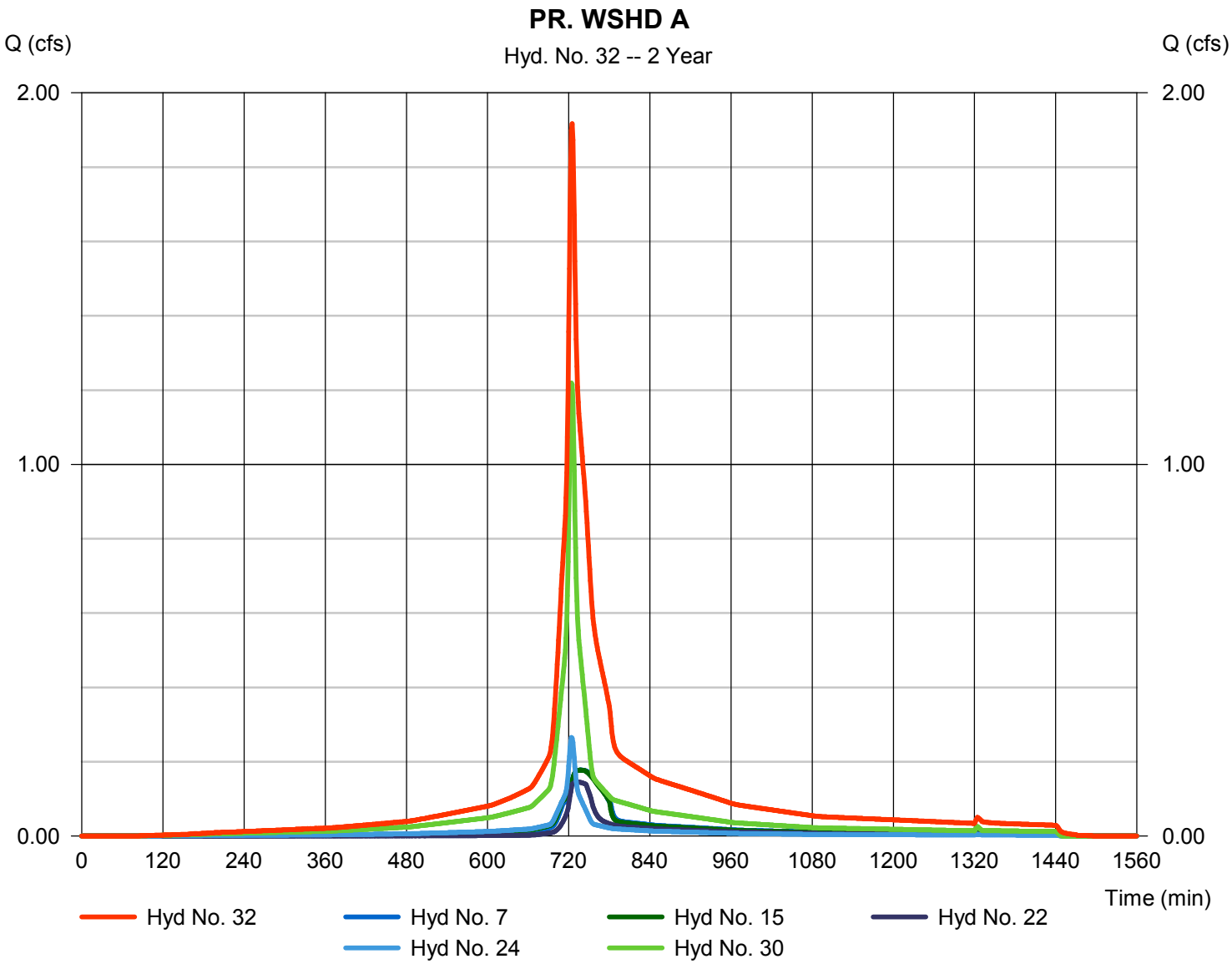
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 32

PR. WSHD A

Hydrograph type	= Combine	Peak discharge	= 1.917 cfs
Storm frequency	= 2 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 8,692 cuft
Inflow hyds.	= 7, 15, 22, 24, 30	Contrib. drain. area	= 0.080 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	0.283	1	725	876	------	------	------	PR. WSHD A-1 (PERV)
2	SCS Runoff	0.286	1	725	904	------	------	------	PR. WSHD A-1 (PERM PAV)
3	SCS Runoff	0.251	1	724	886	------	------	------	PR. WSHD A-1 (IMP)
5	Combine	0.819	1	725	2,666	1, 2, 3,	------	------	PR. WSHD A-1
7	Reservoir	0.259	1	745	2,664	5	1.07	577	PR. BASIN-1
9	SCS Runoff	0.198	1	725	613	------	------	------	PR. WSHD A-2 (PERV)
10	SCS Runoff	0.220	1	725	696	------	------	------	PR. WSHD A-2 (PERM PAV)
11	SCS Runoff	0.352	1	724	1,240	------	------	------	PR. WSHD A-2 (IMP)
13	Combine	0.768	1	725	2,549	9, 10, 11,	------	------	PR. WSHD A-2
15	Reservoir	0.241	1	744	2,547	13	1.33	535	PR. BASIN-2
17	SCS Runoff	0.482	1	725	1,489	------	------	------	PR. WSHD A-3 (PERV)
18	SCS Runoff	0.050	1	724	177	------	------	------	PR. WSHD A-3 (IMP)
20	Combine	0.532	1	725	1,667	17, 18,	------	------	PR. WSHD A-3
22	Reservoir	0.197	1	741	1,664	20	1.37	320	PR. BASIN-3
24	SCS Runoff	0.402	1	724	1,417	------	------	------	PR. WSHD A-4
26	SCS Runoff	0.283	1	725	876	------	------	------	PR. WSHD A-5 (PERV)
27	SCS Runoff	0.088	1	725	278	------	------	------	PR. WSHD A-5 (PERM)
28	SCS Runoff	1.609	1	724	5,670	------	------	------	PR. WSHD A-5 (IMP)
30	Combine	1.976	1	724	6,824	26, 27, 28,	------	------	PR. WSHD A-5
32	Combine	2.953	1	725	15,117	7, 15, 22, 24, 30,	------	------	PR. WSHD A

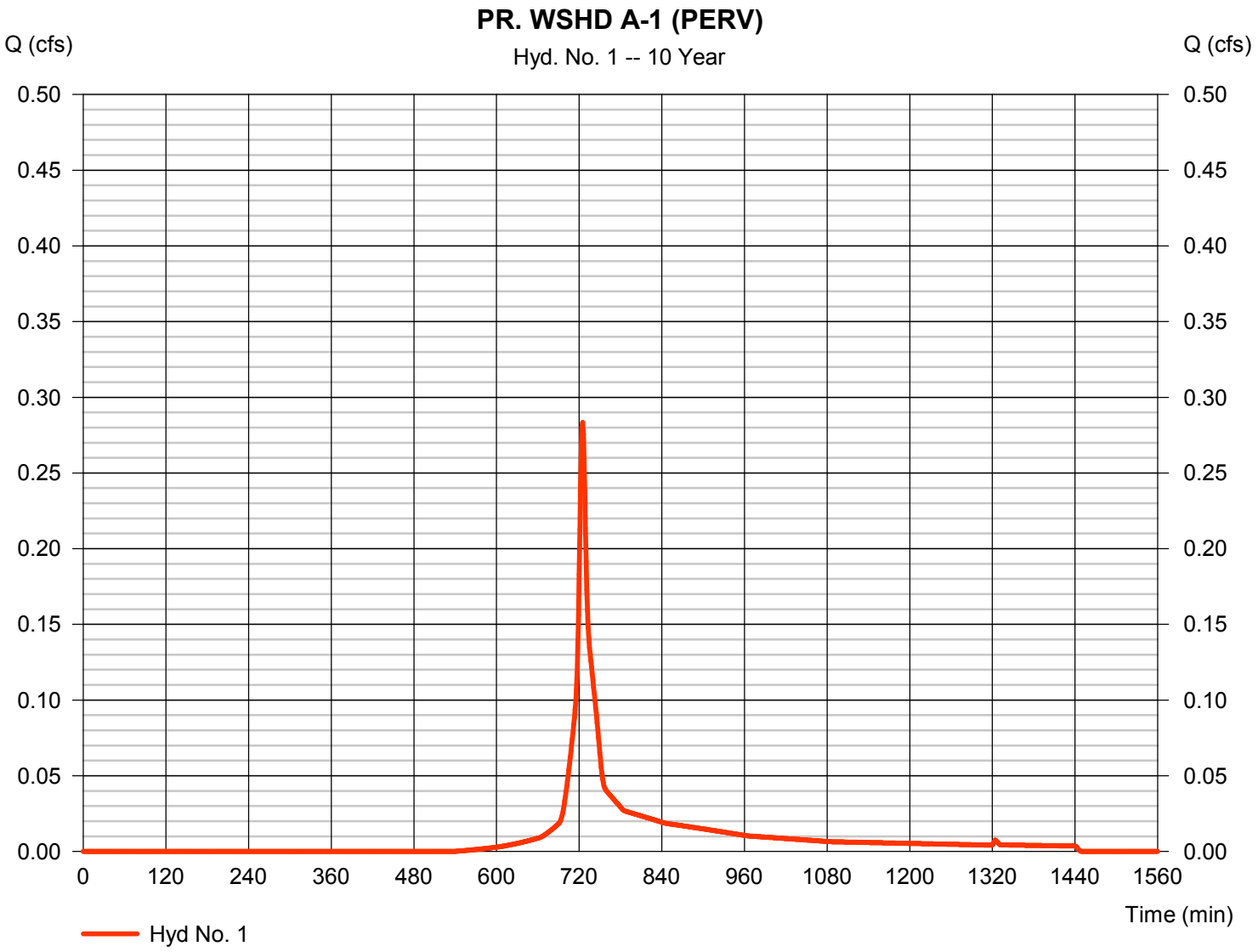
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 1

PR. WSHD A-1 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.283 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 876 cuft
Drainage area	= 0.100 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



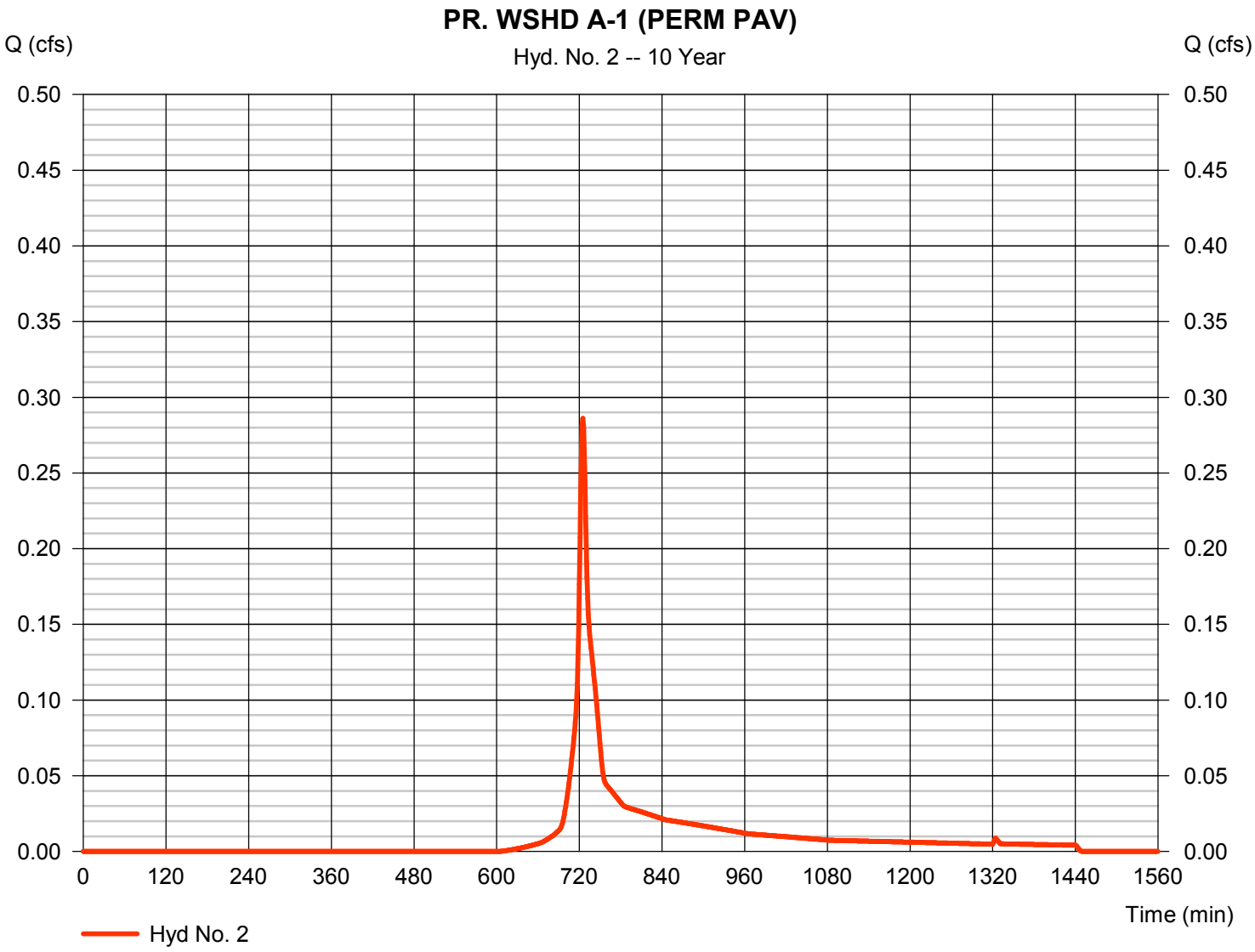
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 2

PR. WSHD A-1 (PERM PAV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.286 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 904 cuft
Drainage area	= 0.130 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



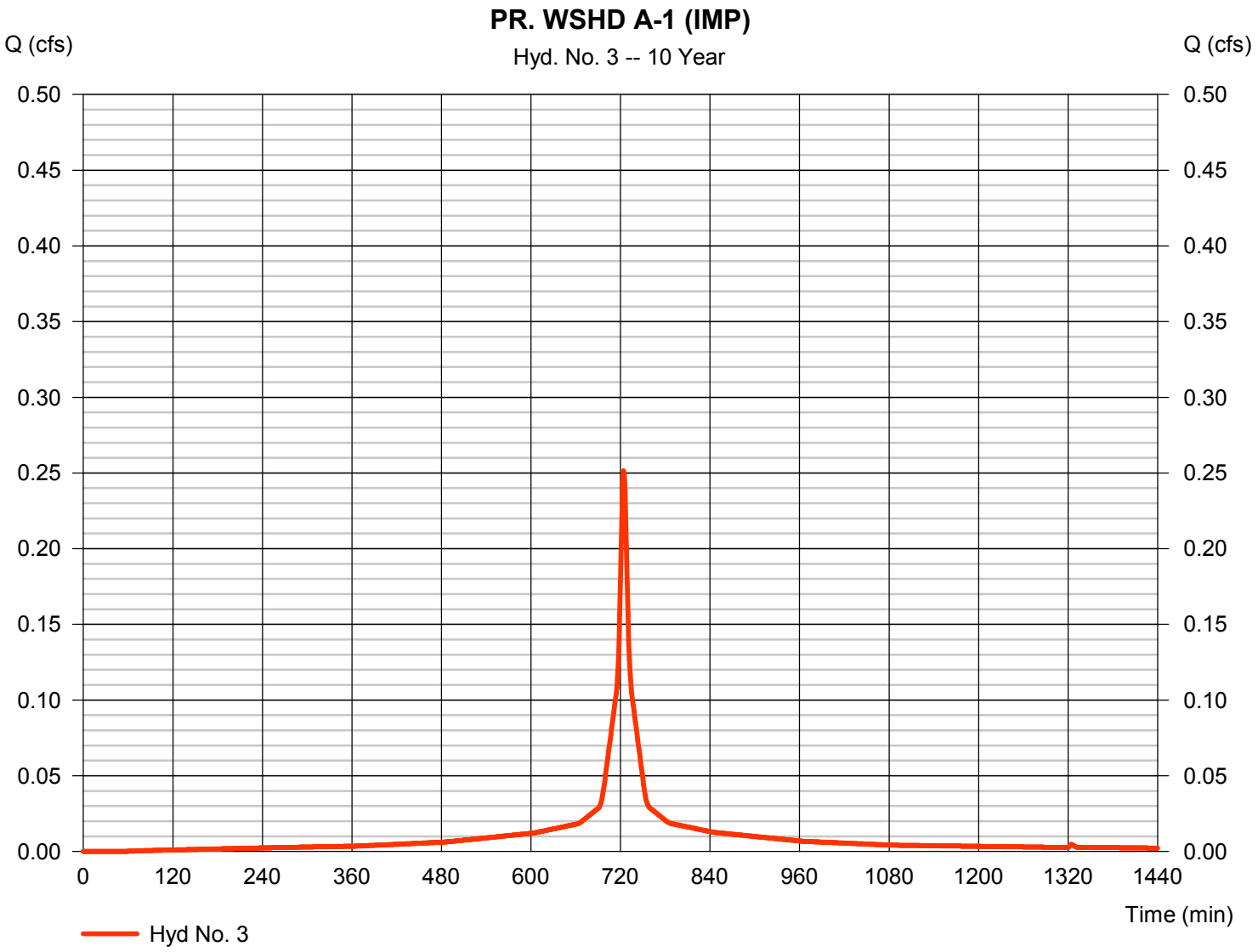
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 3

PR. WSHD A-1 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.251 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 886 cuft
Drainage area	= 0.050 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



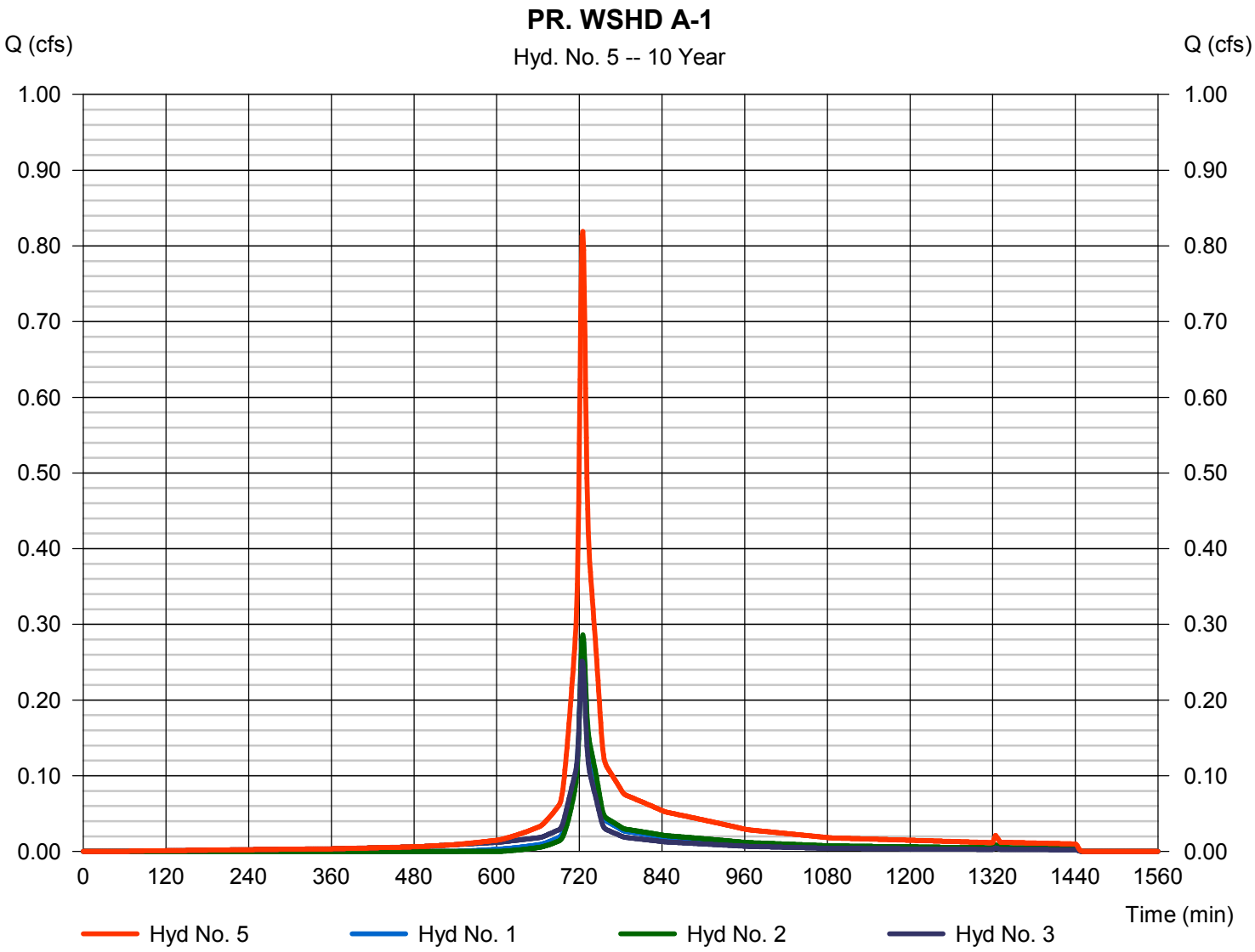
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 5

PR. WSHD A-1

Hydrograph type	= Combine	Peak discharge	= 0.819 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 2,666 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 0.280 ac



Hydrograph Report

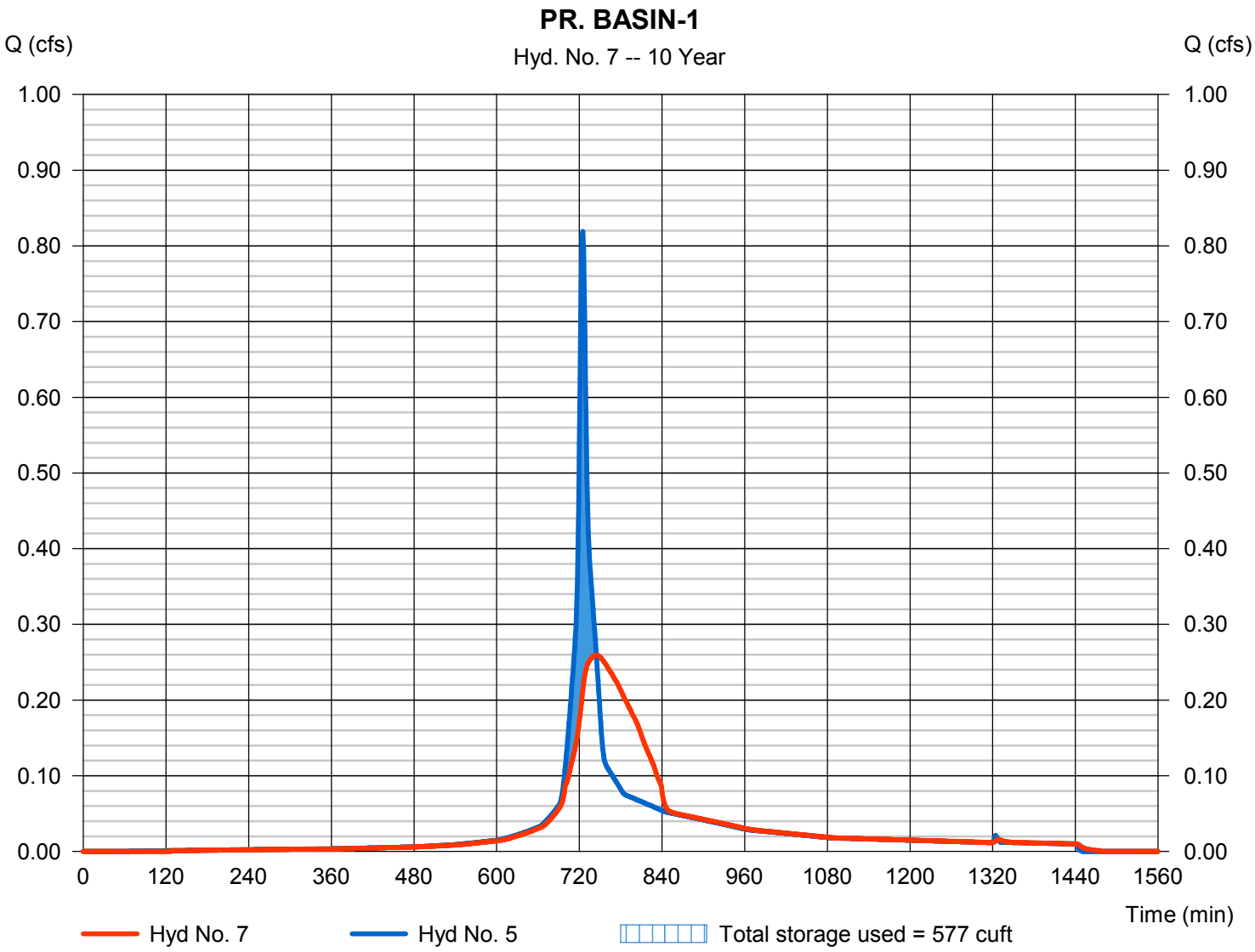
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 7

PR. BASIN-1

Hydrograph type	= Reservoir	Peak discharge	= 0.259 cfs
Storm frequency	= 10 yrs	Time to peak	= 745 min
Time interval	= 1 min	Hyd. volume	= 2,664 cuft
Inflow hyd. No.	= 5 - PR. WSHD A-1	Max. Elevation	= 1.07 ft
Reservoir name	= BASIN-1	Max. Storage	= 577 cuft

Storage Indication method used.



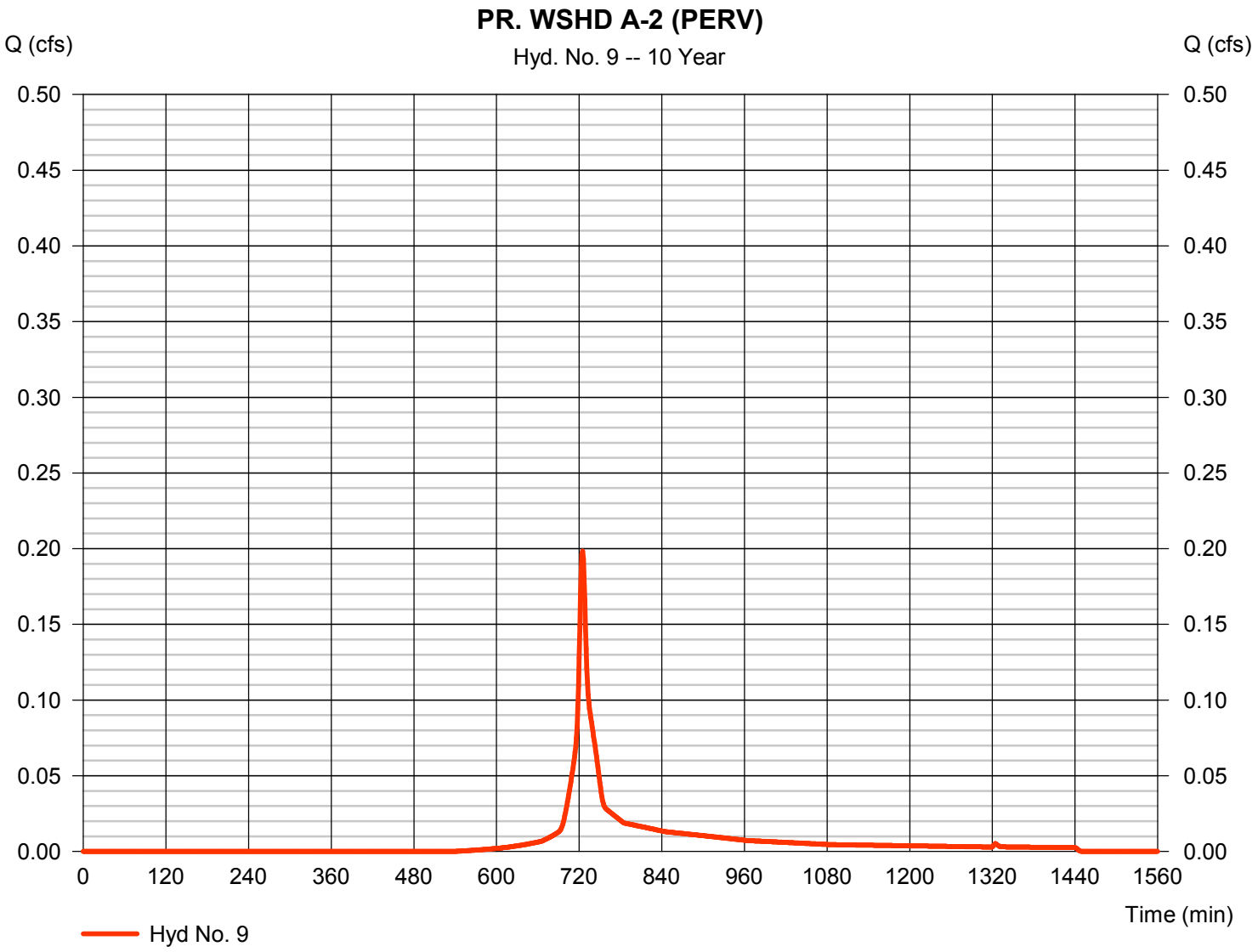
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 9

PR. WSHD A-2 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.198 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 613 cuft
Drainage area	= 0.070 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



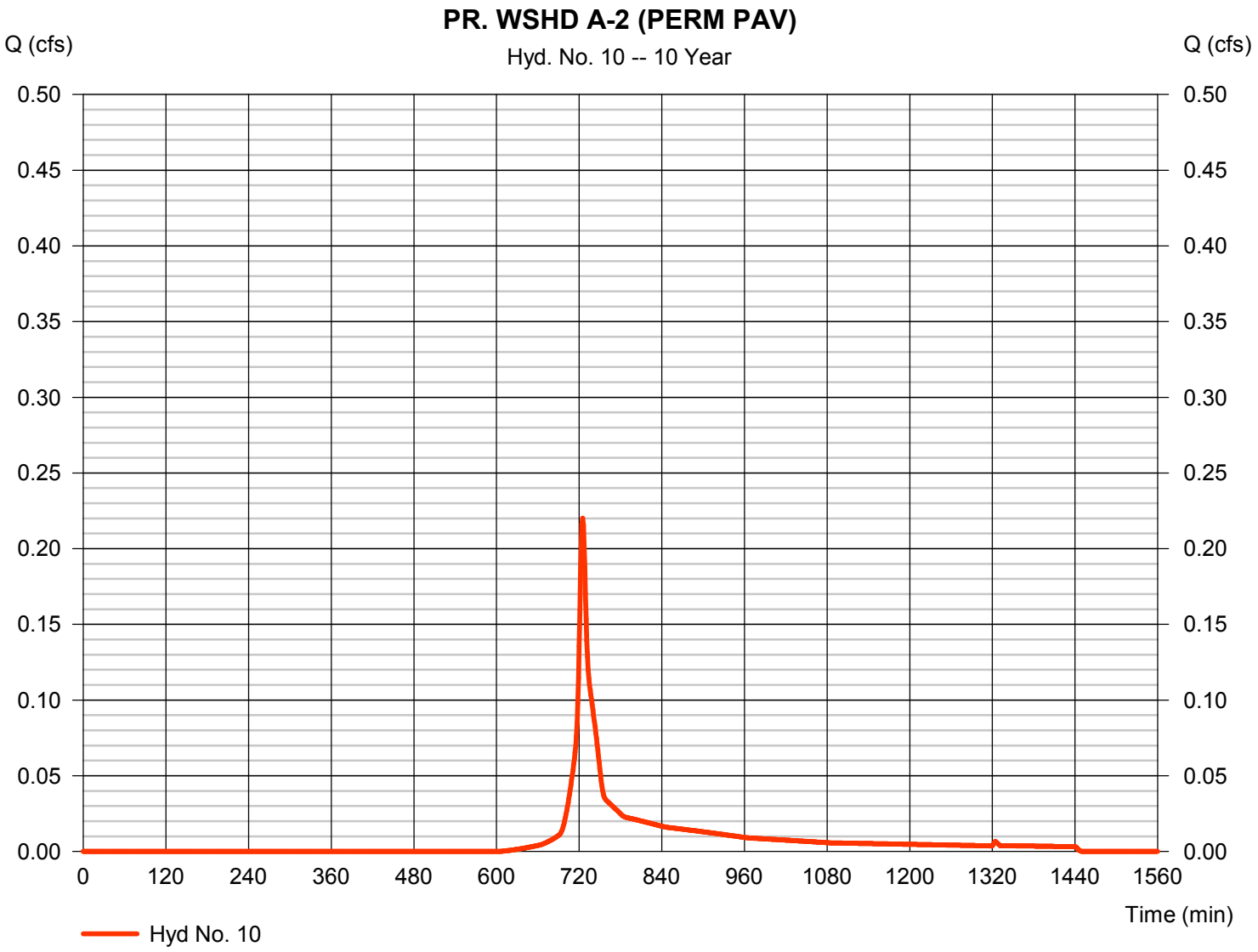
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 10

PR. WSHD A-2 (PERM PAV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.220 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 696 cuft
Drainage area	= 0.100 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



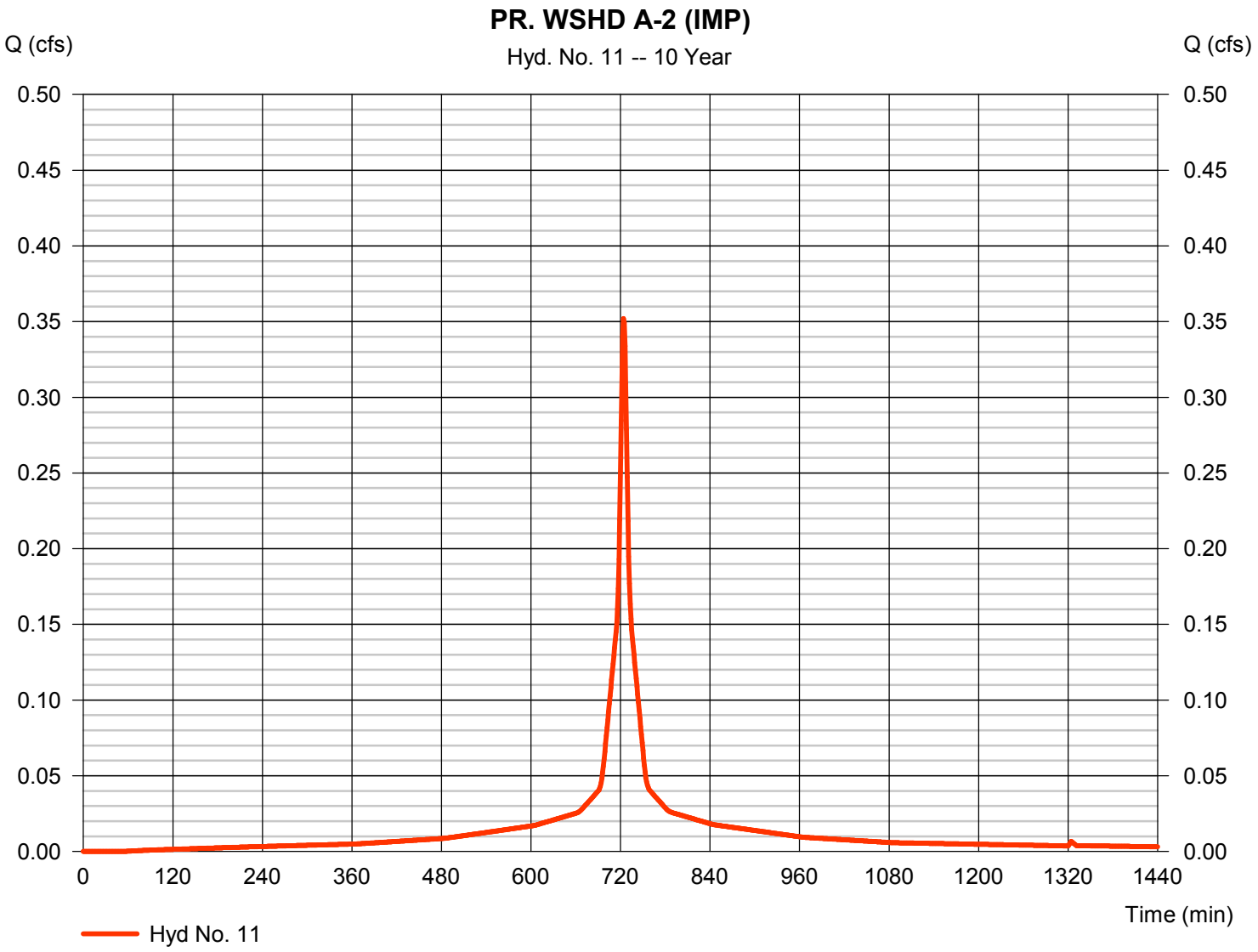
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 11

PR. WSHD A-2 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.352 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 1,240 cuft
Drainage area	= 0.070 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



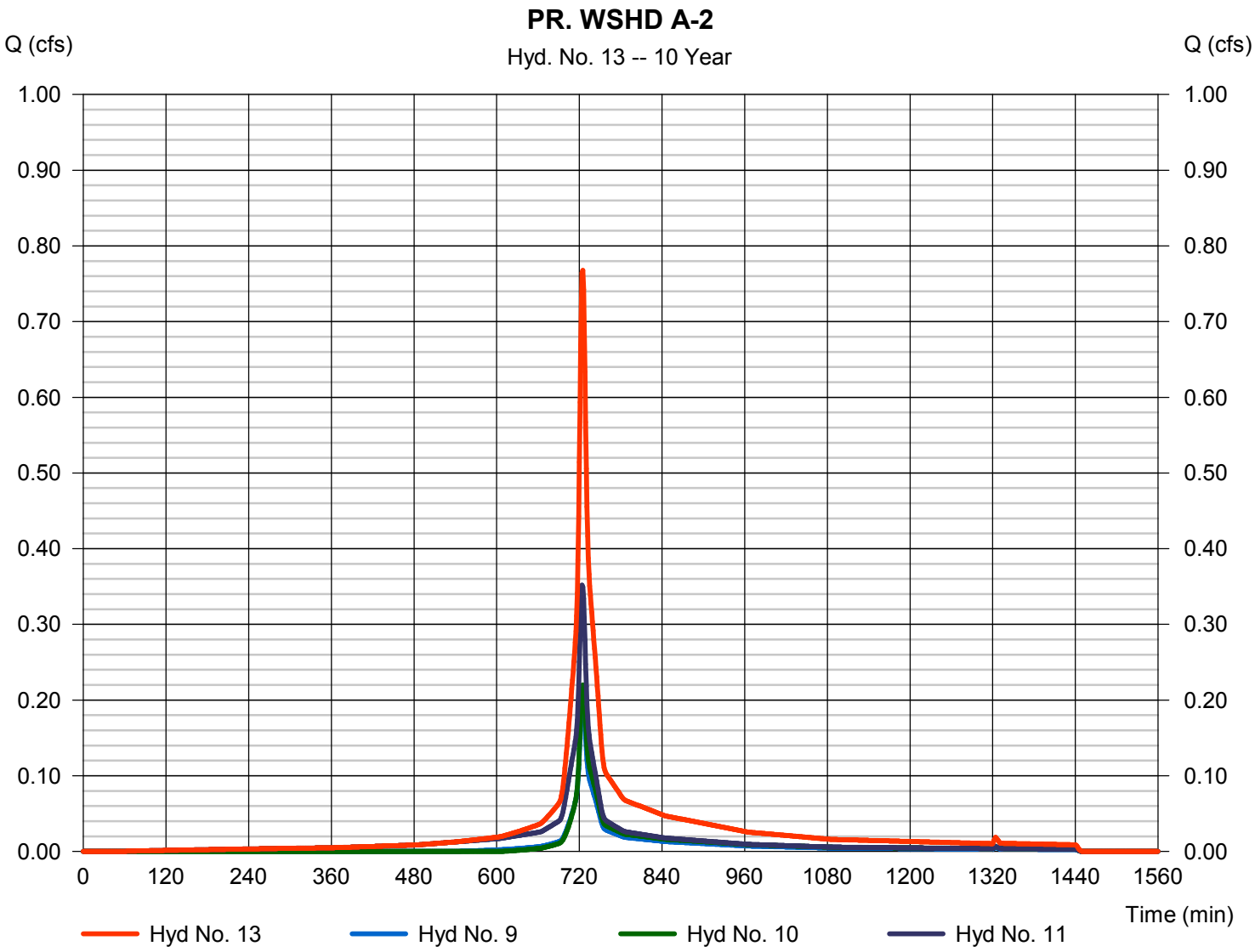
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 13

PR. WSHD A-2

Hydrograph type	= Combine	Peak discharge	= 0.768 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 2,549 cuft
Inflow hyds.	= 9, 10, 11	Contrib. drain. area	= 0.240 ac



Hydrograph Report

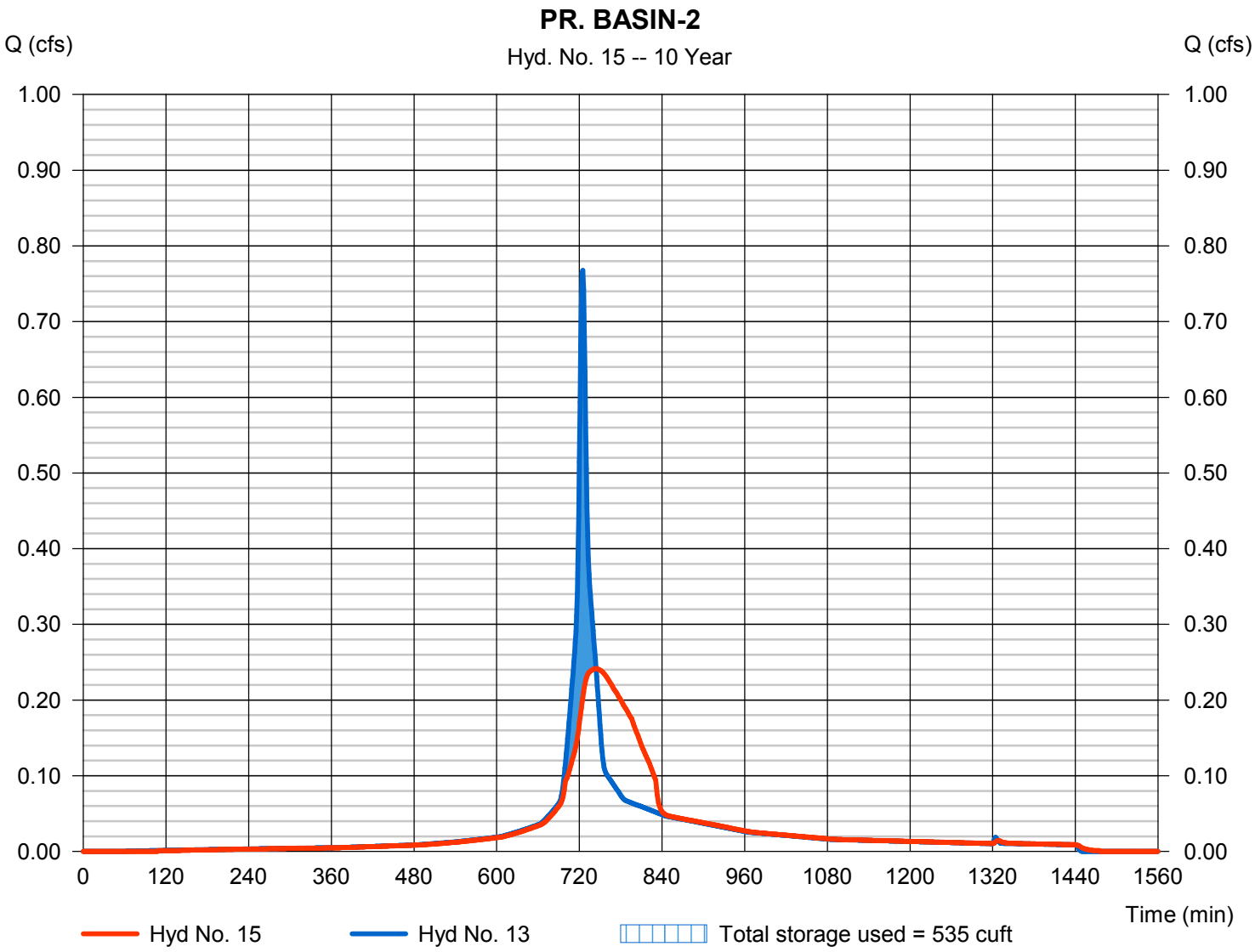
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 15

PR. BASIN-2

Hydrograph type	= Reservoir	Peak discharge	= 0.241 cfs
Storm frequency	= 10 yrs	Time to peak	= 744 min
Time interval	= 1 min	Hyd. volume	= 2,547 cuft
Inflow hyd. No.	= 13 - PR. WSHD A-2	Max. Elevation	= 1.33 ft
Reservoir name	= BASIN-2	Max. Storage	= 535 cuft

Storage Indication method used.



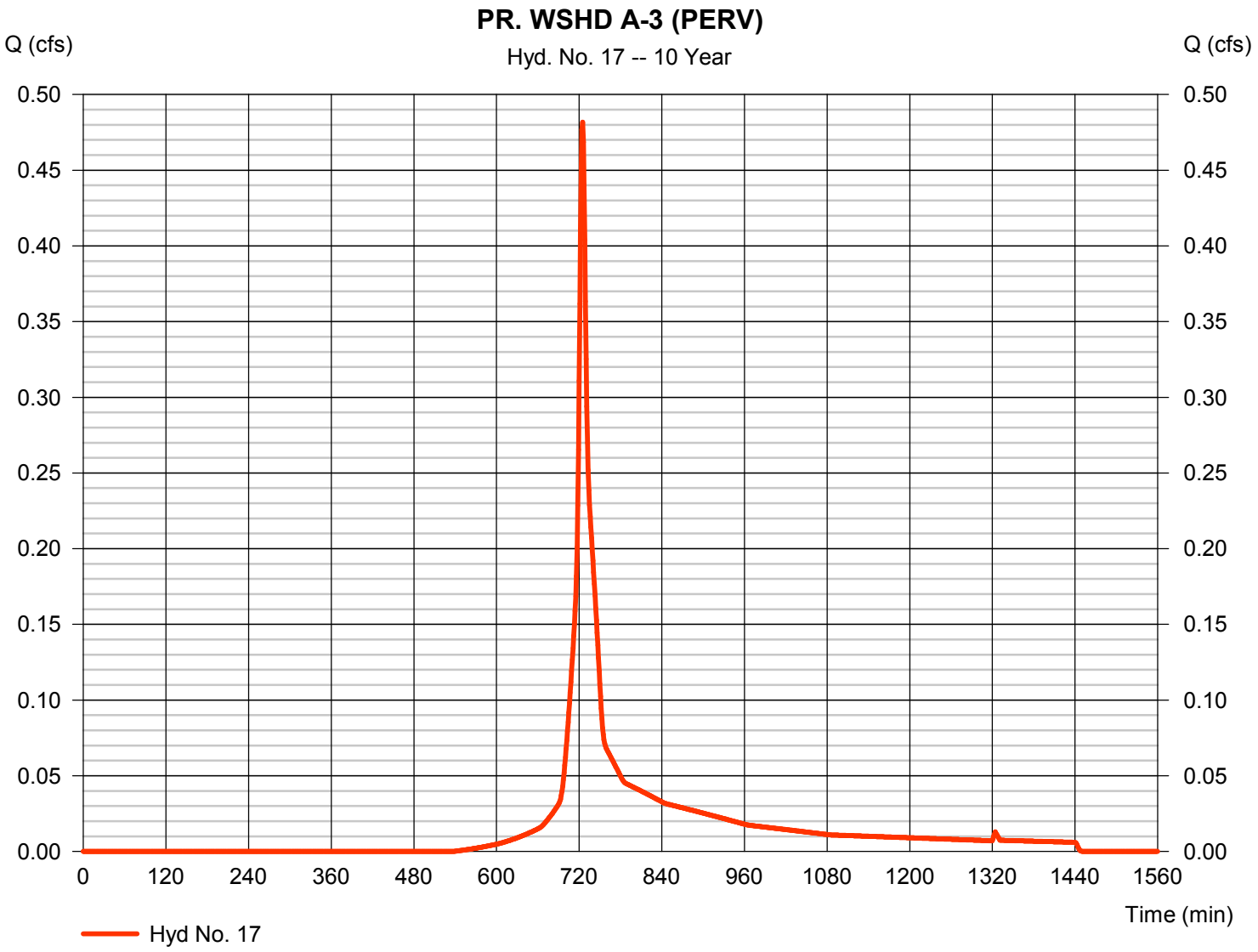
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 17

PR. WSHD A-3 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.482 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 1,489 cuft
Drainage area	= 0.170 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



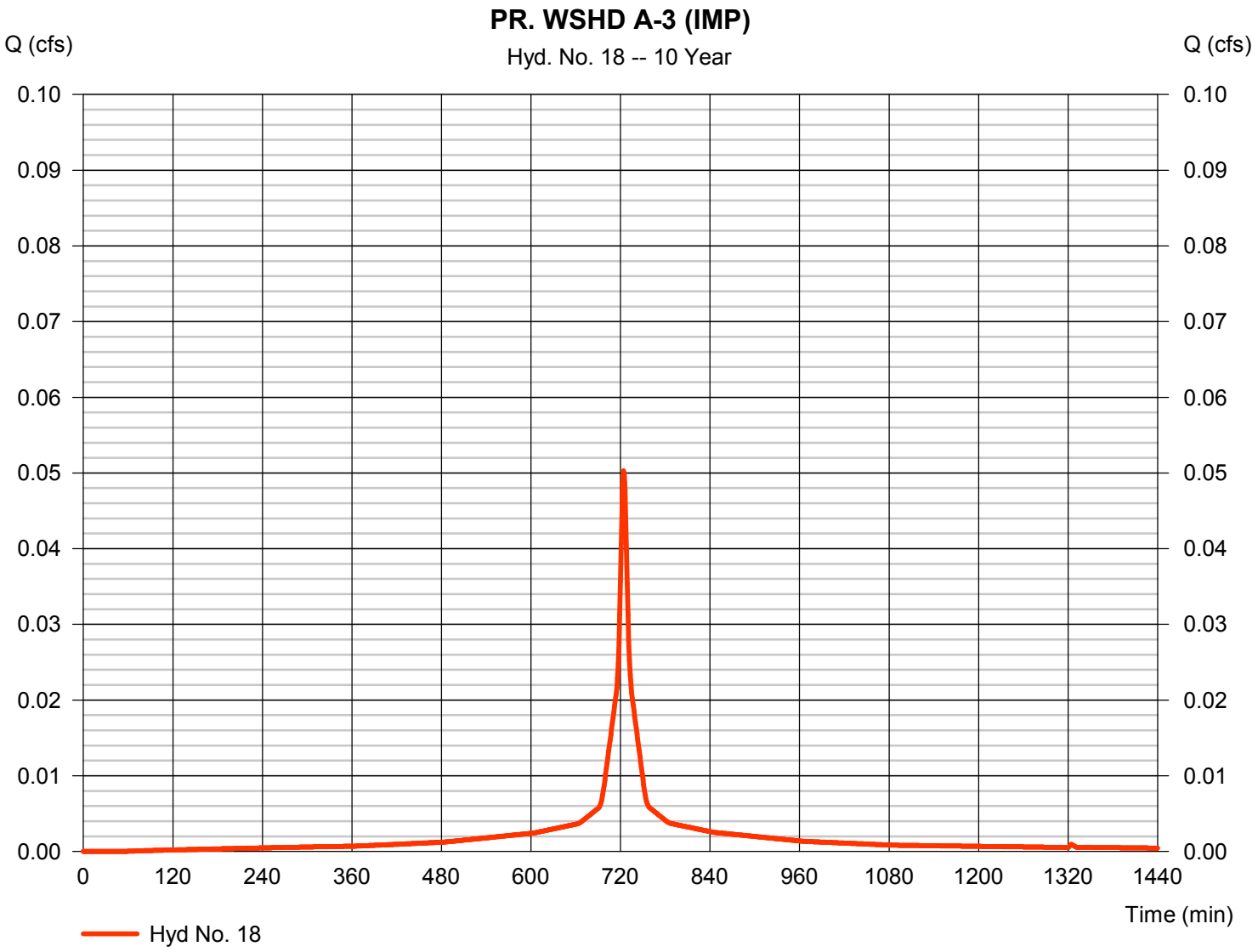
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 18

PR. WSHD A-3 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.050 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 177 cuft
Drainage area	= 0.010 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



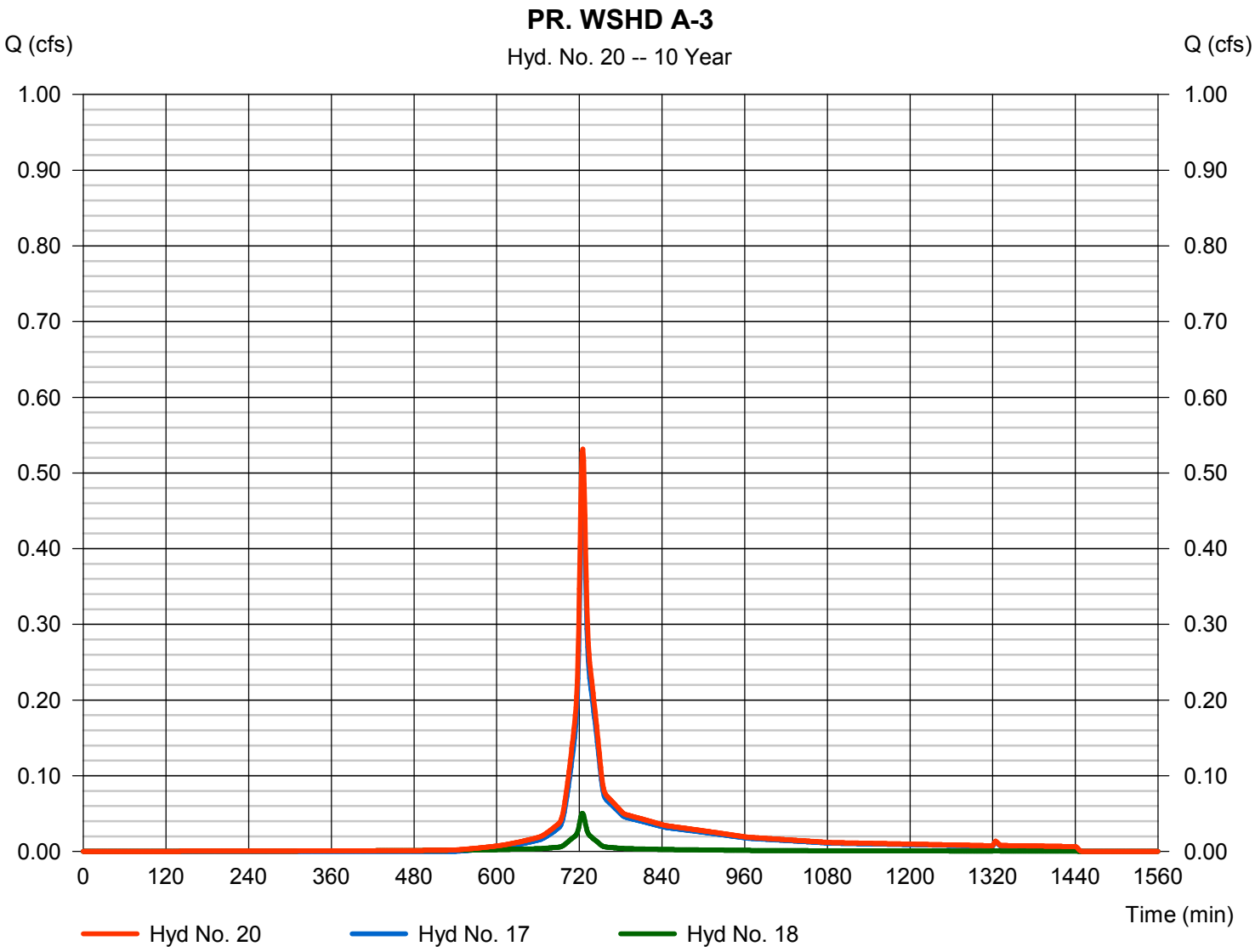
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 20

PR. WSHD A-3

Hydrograph type	= Combine	Peak discharge	= 0.532 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 1,667 cuft
Inflow hyds.	= 17, 18	Contrib. drain. area	= 0.180 ac



Hydrograph Report

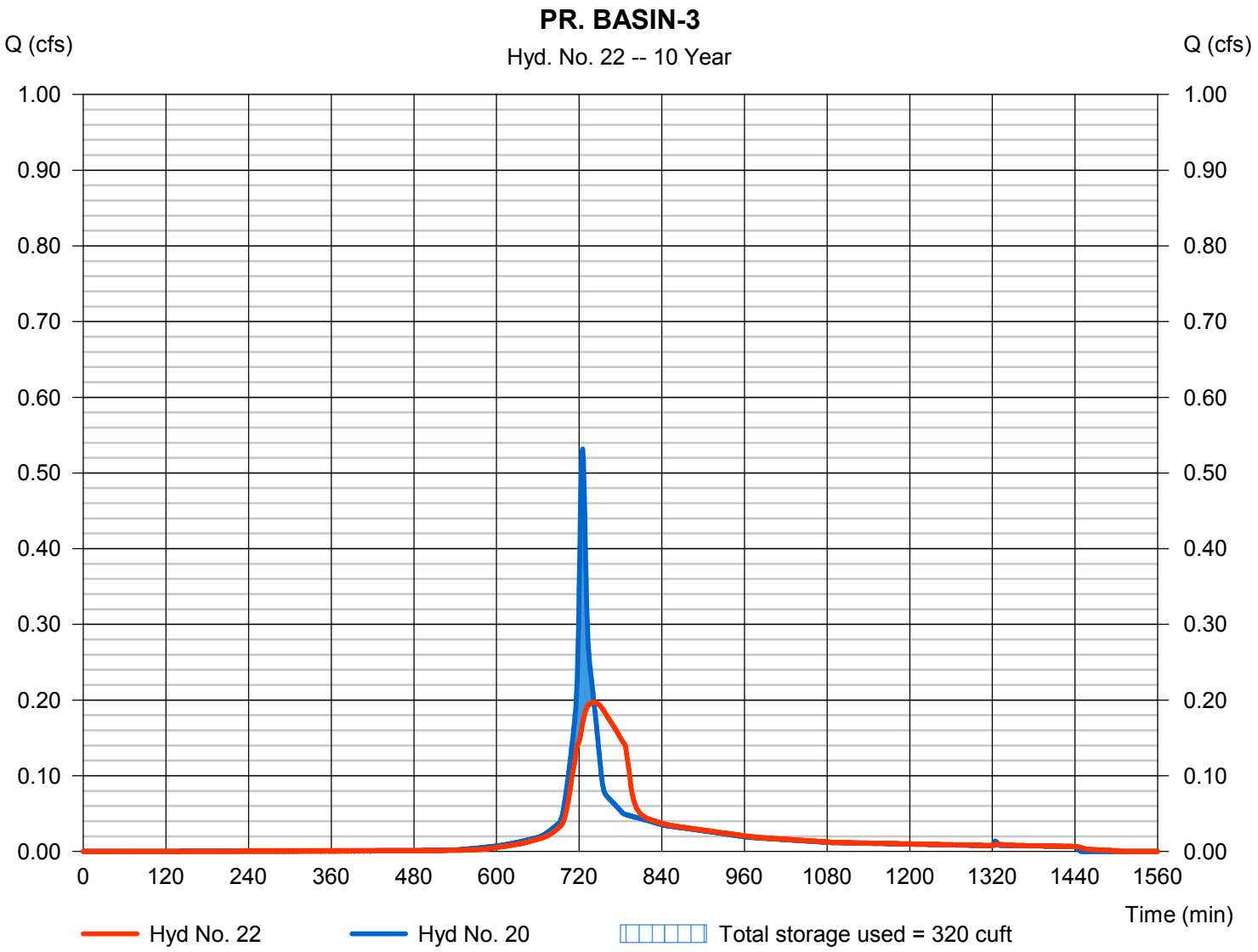
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 22

PR. BASIN-3

Hydrograph type	= Reservoir	Peak discharge	= 0.197 cfs
Storm frequency	= 10 yrs	Time to peak	= 741 min
Time interval	= 1 min	Hyd. volume	= 1,664 cuft
Inflow hyd. No.	= 20 - PR. WSHD A-3	Max. Elevation	= 1.37 ft
Reservoir name	= BASIN-3	Max. Storage	= 320 cuft

Storage Indication method used.



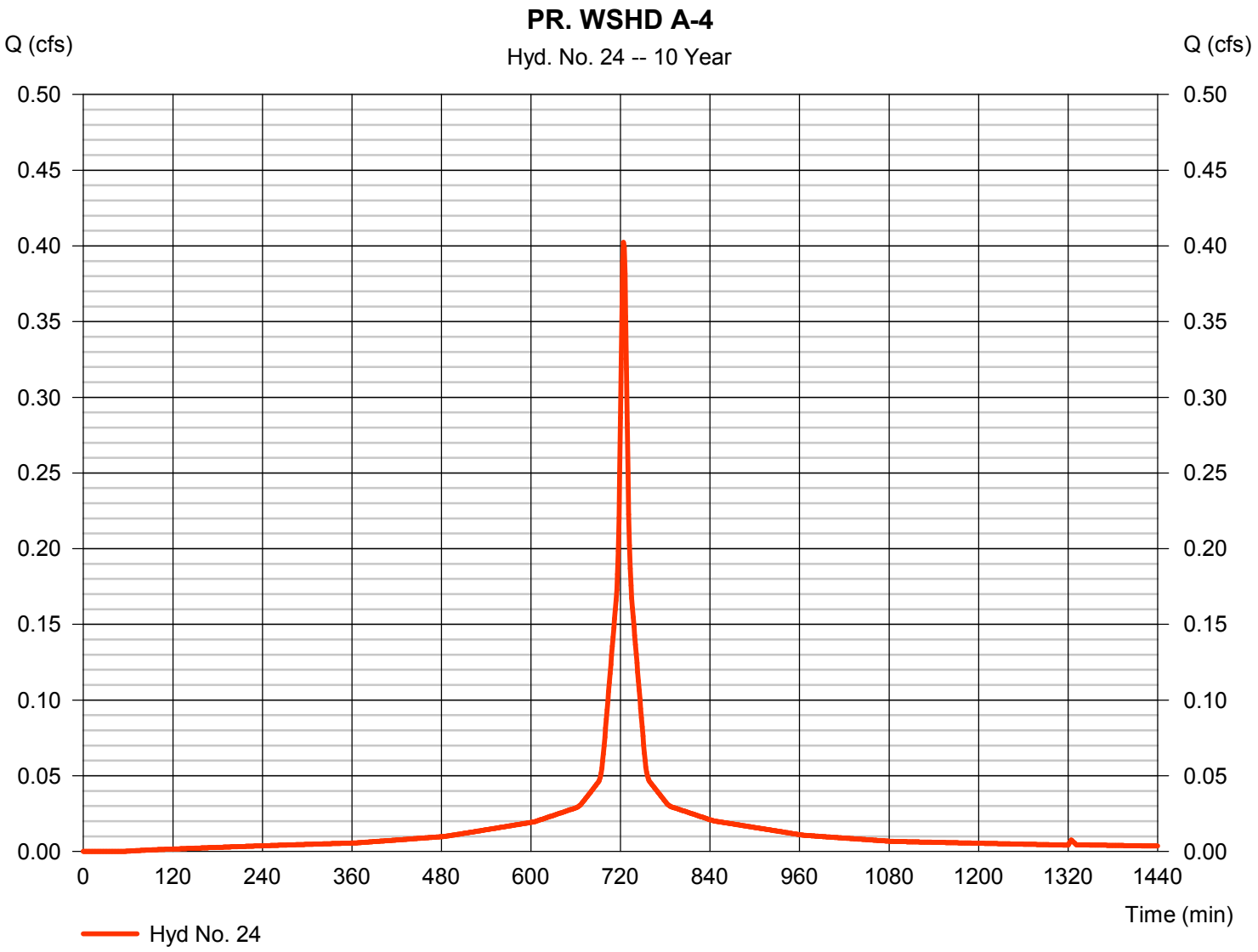
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 24

PR. WSHD A-4

Hydrograph type	= SCS Runoff	Peak discharge	= 0.402 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 1,417 cuft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



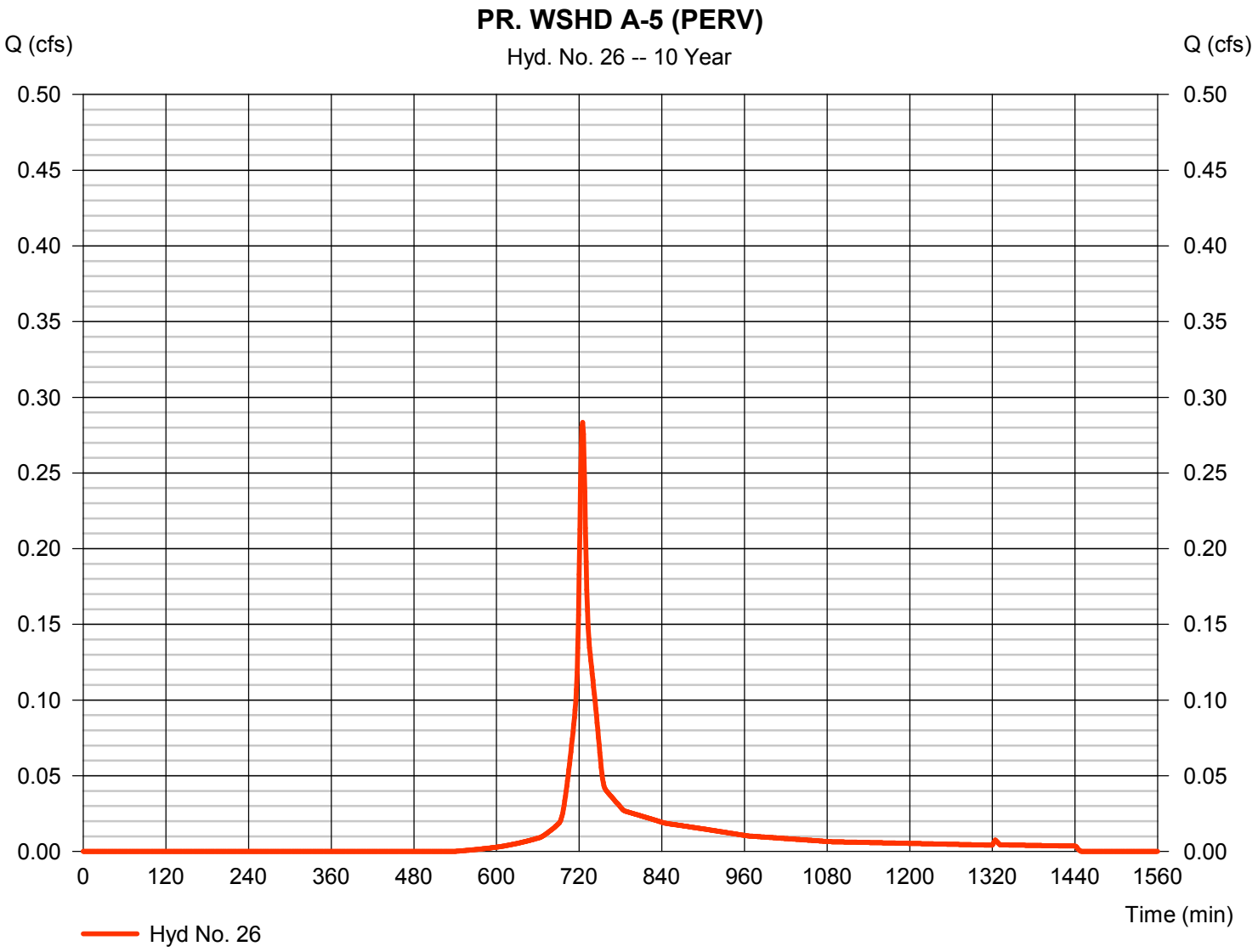
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 26

PR. WSHD A-5 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.283 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 876 cuft
Drainage area	= 0.100 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



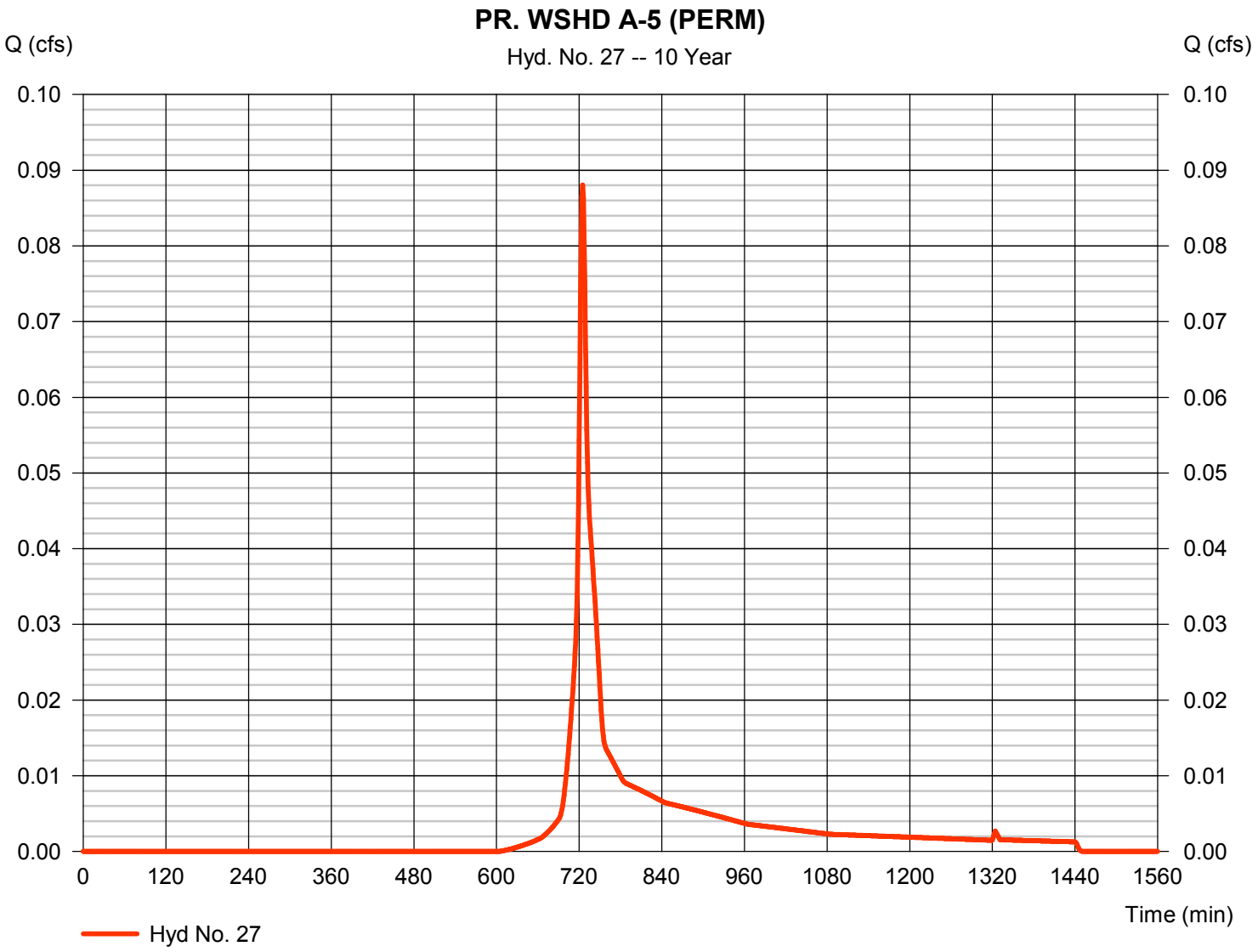
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 27

PR. WSHD A-5 (PERM)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.088 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 278 cuft
Drainage area	= 0.040 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



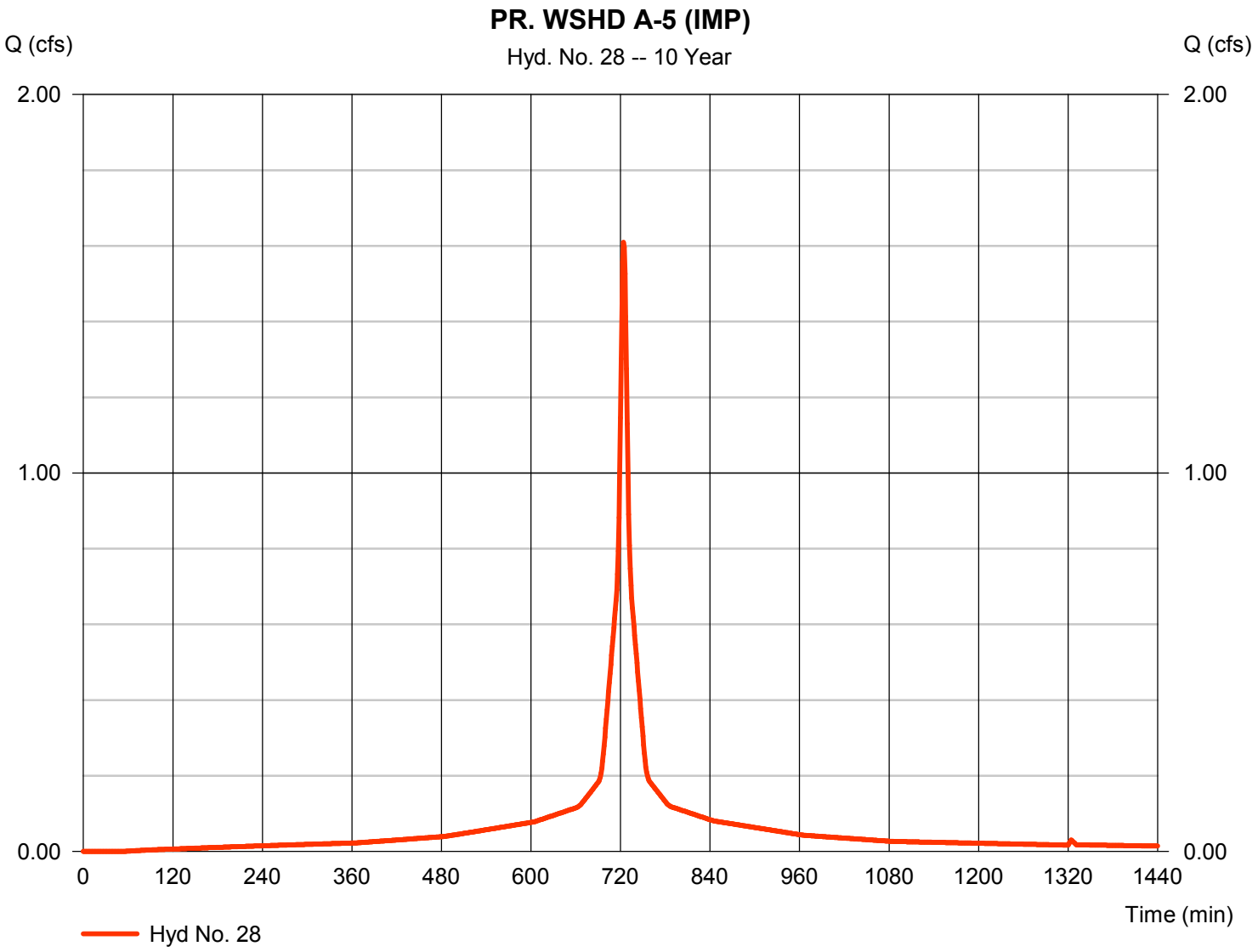
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 28

PR. WSHD A-5 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 1.609 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 5,670 cuft
Drainage area	= 0.320 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 4.97 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



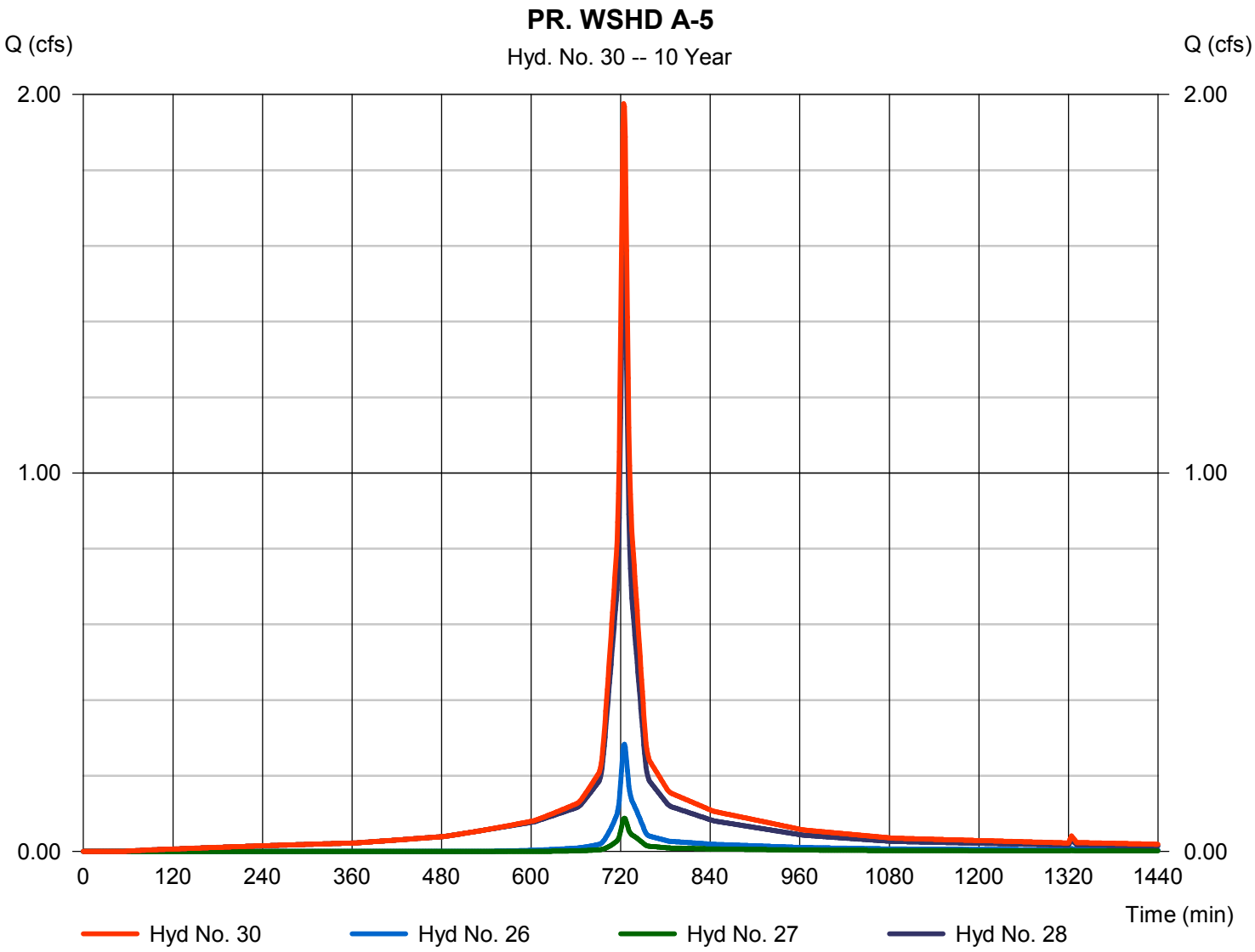
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 30

PR. WSHD A-5

Hydrograph type	= Combine	Peak discharge	= 1.976 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 6,824 cuft
Inflow hyds.	= 26, 27, 28	Contrib. drain. area	= 0.460 ac



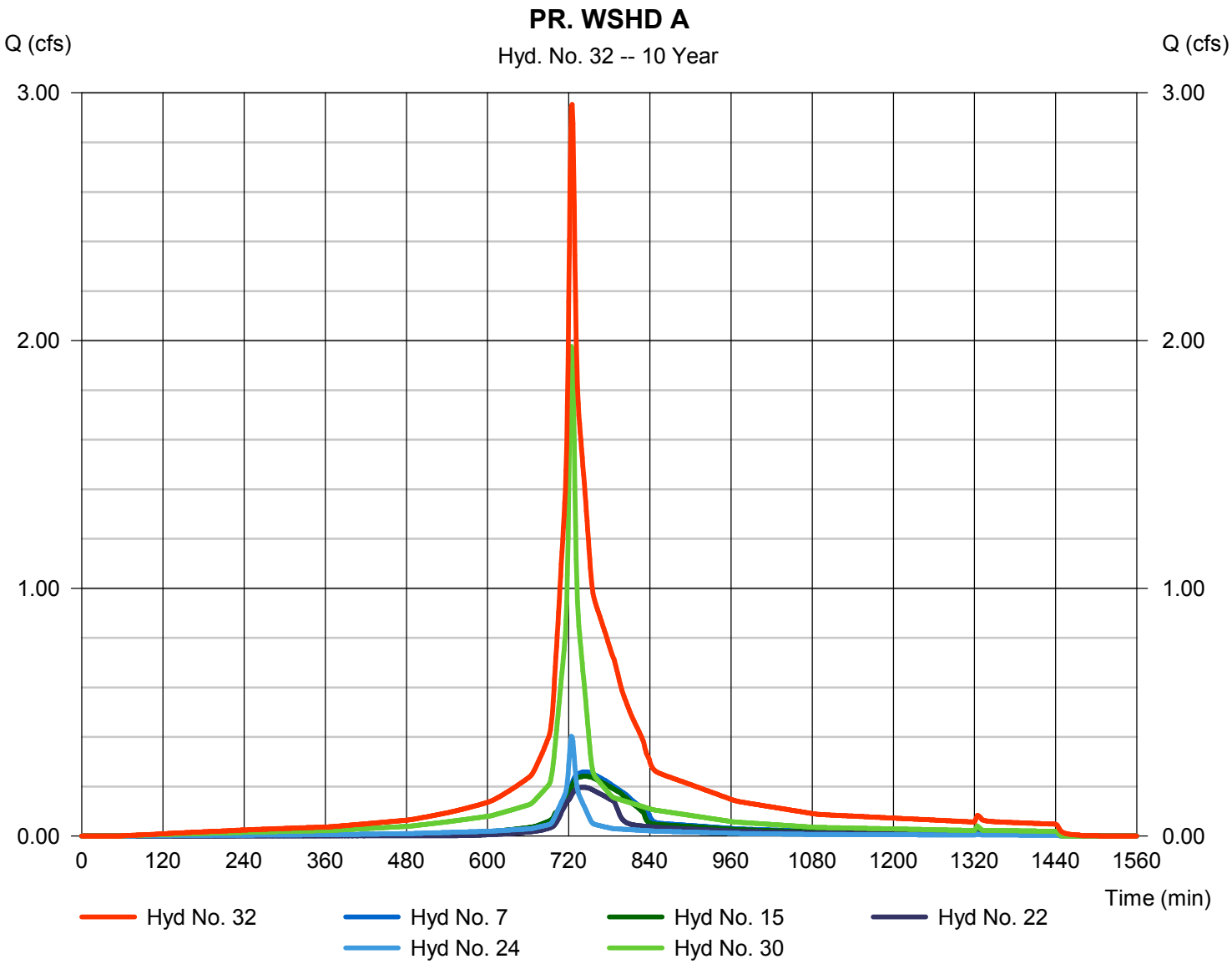
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 32

PR. WSHD A

Hydrograph type	= Combine	Peak discharge	= 2.953 cfs
Storm frequency	= 10 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 15,117 cuft
Inflow hyds.	= 7, 15, 22, 24, 30	Contrib. drain. area	= 0.080 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	0.609	1	725	1,887	------	------	------	PR. WSHD A-1 (PERV)
2	SCS Runoff	0.686	1	725	2,114	------	------	------	PR. WSHD A-1 (PERM PAV)
3	SCS Runoff	0.413	1	724	1,477	------	------	------	PR. WSHD A-1 (IMP)
5	Combine	1.705	1	725	5,479	1, 2, 3,	------	------	PR. WSHD A-1
7	Reservoir	0.396	1	749	5,476	5	2.00	1,567	PR. BASIN-1
9	SCS Runoff	0.427	1	725	1,321	------	------	------	PR. WSHD A-2 (PERV)
10	SCS Runoff	0.528	1	725	1,626	------	------	------	PR. WSHD A-2 (PERM PAV)
11	SCS Runoff	0.578	1	724	2,068	------	------	------	PR. WSHD A-2 (IMP)
13	Combine	1.528	1	725	5,015	9, 10, 11,	------	------	PR. WSHD A-2
15	Reservoir	0.343	1	749	5,013	13	1.95	1,404	PR. BASIN-2
17	SCS Runoff	1.036	1	725	3,209	------	------	------	PR. WSHD A-3 (PERV)
18	SCS Runoff	0.083	1	724	295	------	------	------	PR. WSHD A-3 (IMP)
20	Combine	1.118	1	725	3,504	17, 18,	------	------	PR. WSHD A-3
22	Reservoir	0.273	1	748	3,502	20	1.77	949	PR. BASIN-3
24	SCS Runoff	0.661	1	724	2,363	------	------	------	PR. WSHD A-4
26	SCS Runoff	0.609	1	725	1,887	------	------	------	PR. WSHD A-5 (PERV)
27	SCS Runoff	0.211	1	725	651	------	------	------	PR. WSHD A-5 (PERM)
28	SCS Runoff	2.642	1	724	9,452	------	------	------	PR. WSHD A-5 (IMP)
30	Combine	3.460	1	724	11,990	26, 27, 28,	------	------	PR. WSHD A-5
32	Combine	4.921	1	725	28,343	7, 15, 22, 24, 30,	------	------	PR. WSHD A

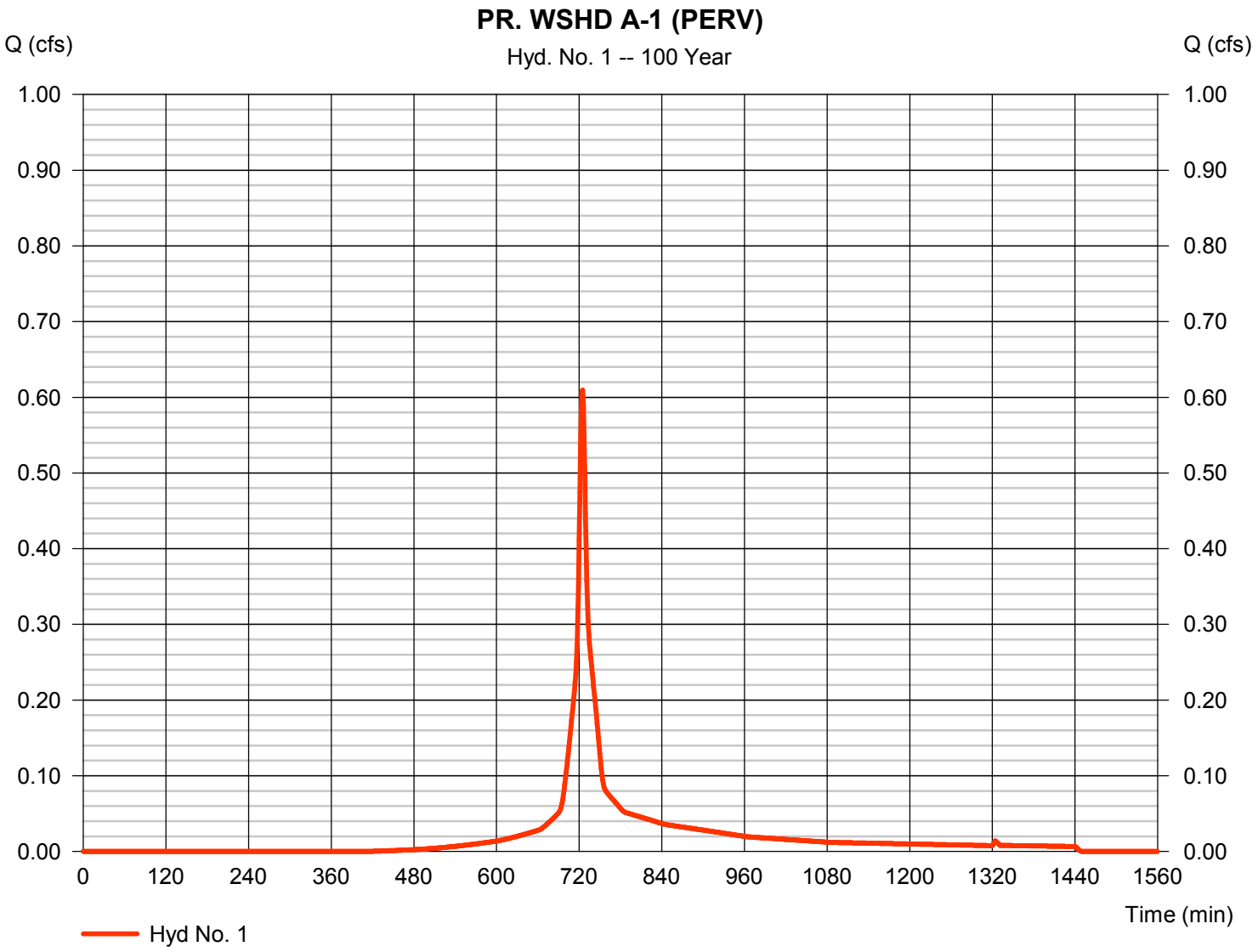
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 1

PR. WSHD A-1 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.609 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 1,887 cuft
Drainage area	= 0.100 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



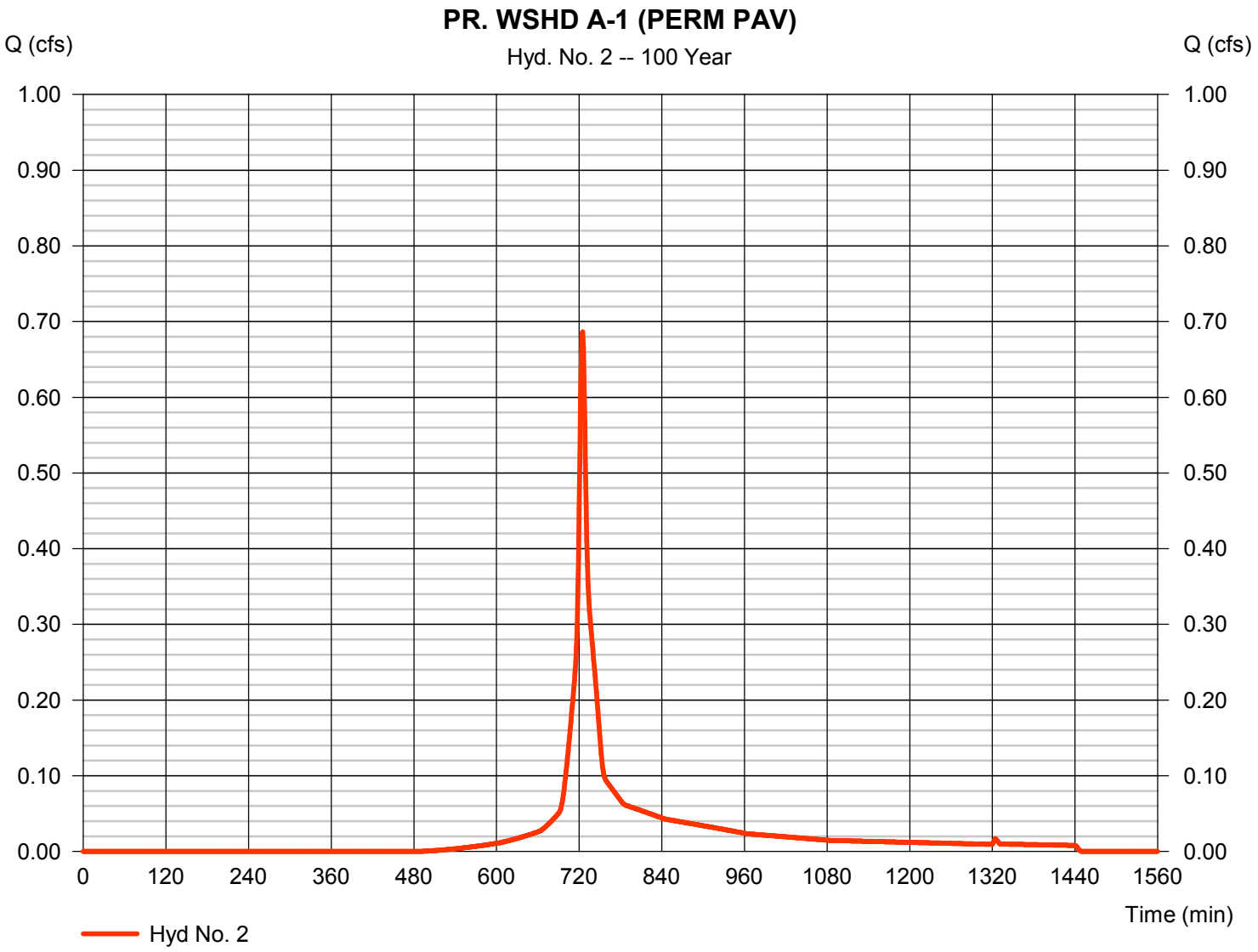
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 2

PR. WSHD A-1 (PERM PAV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.686 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 2,114 cuft
Drainage area	= 0.130 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



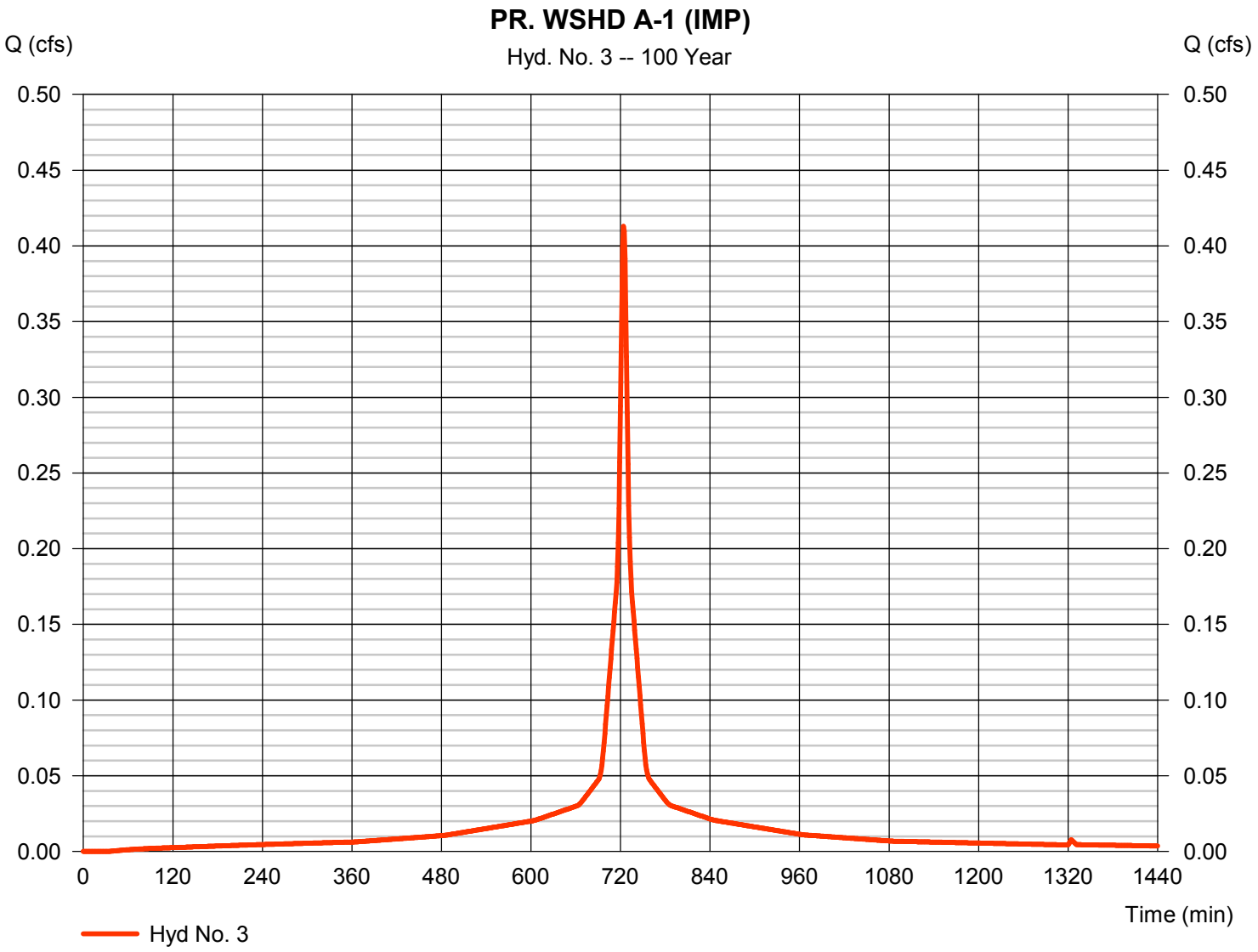
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 3

PR. WSHD A-1 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.413 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 1,477 cuft
Drainage area	= 0.050 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



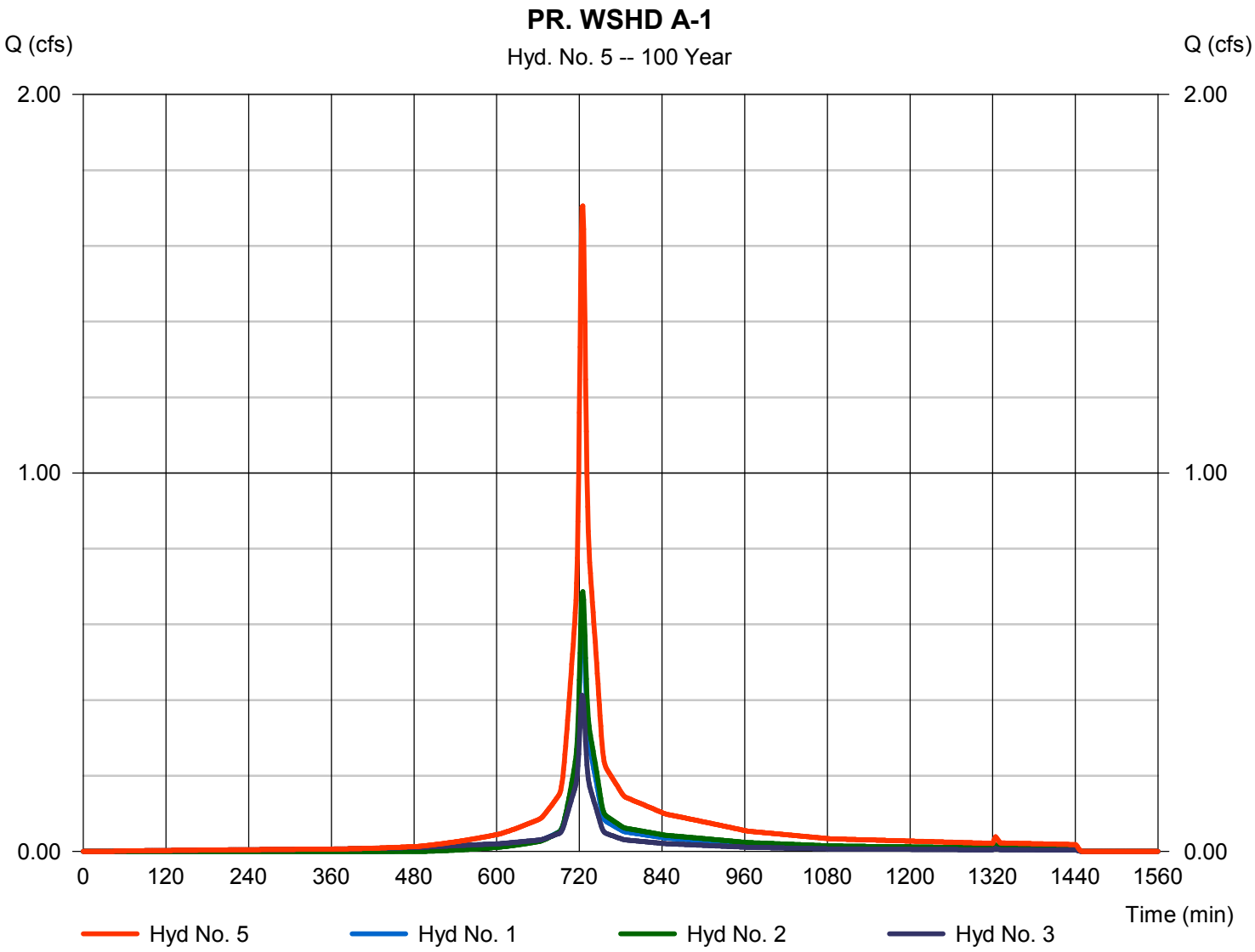
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 5

PR. WSHD A-1

Hydrograph type	= Combine	Peak discharge	= 1.705 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 5,479 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 0.280 ac



Hydrograph Report

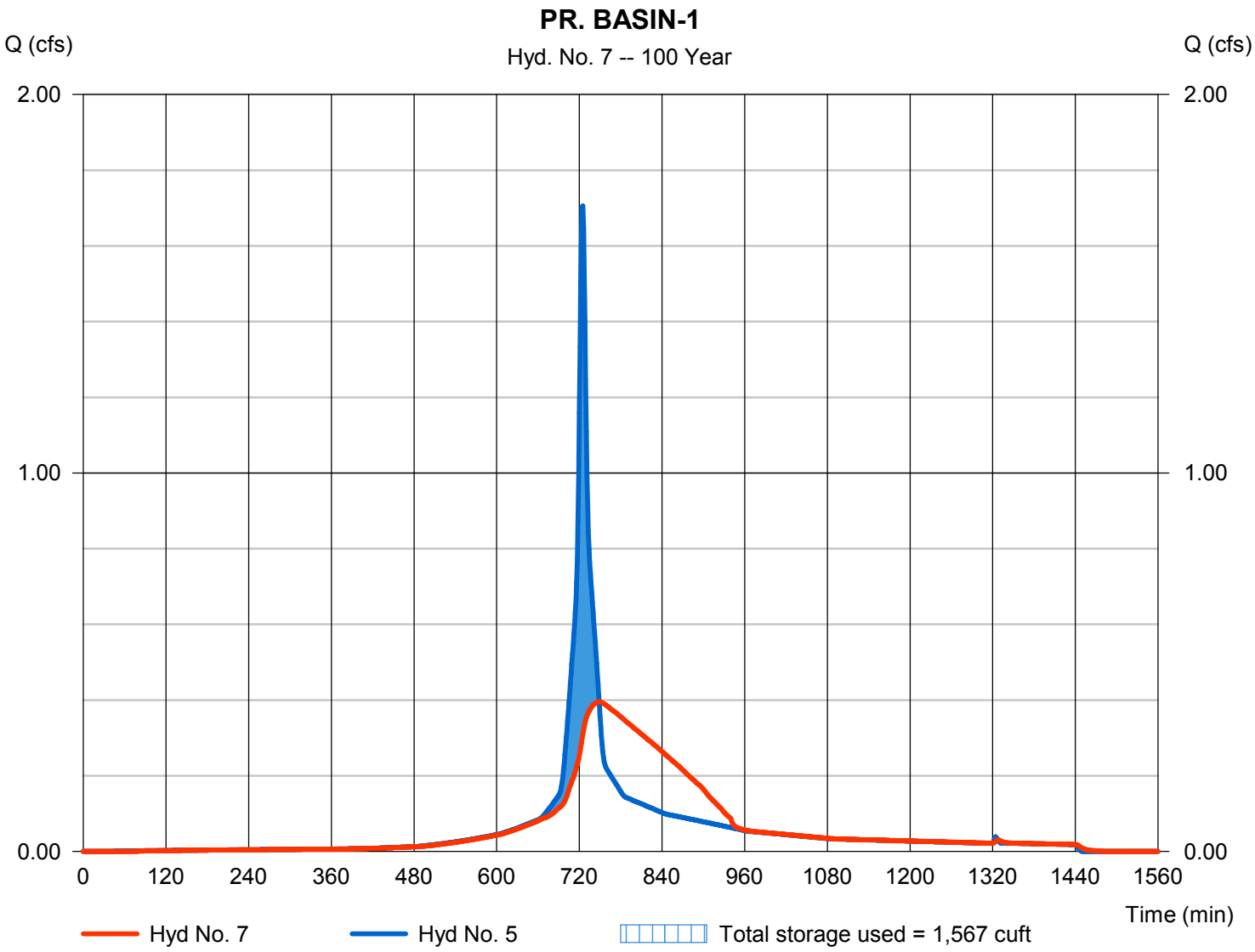
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 7

PR. BASIN-1

Hydrograph type	= Reservoir	Peak discharge	= 0.396 cfs
Storm frequency	= 100 yrs	Time to peak	= 749 min
Time interval	= 1 min	Hyd. volume	= 5,476 cuft
Inflow hyd. No.	= 5 - PR. WSHD A-1	Max. Elevation	= 2.00 ft
Reservoir name	= BASIN-1	Max. Storage	= 1,567 cuft

Storage Indication method used.



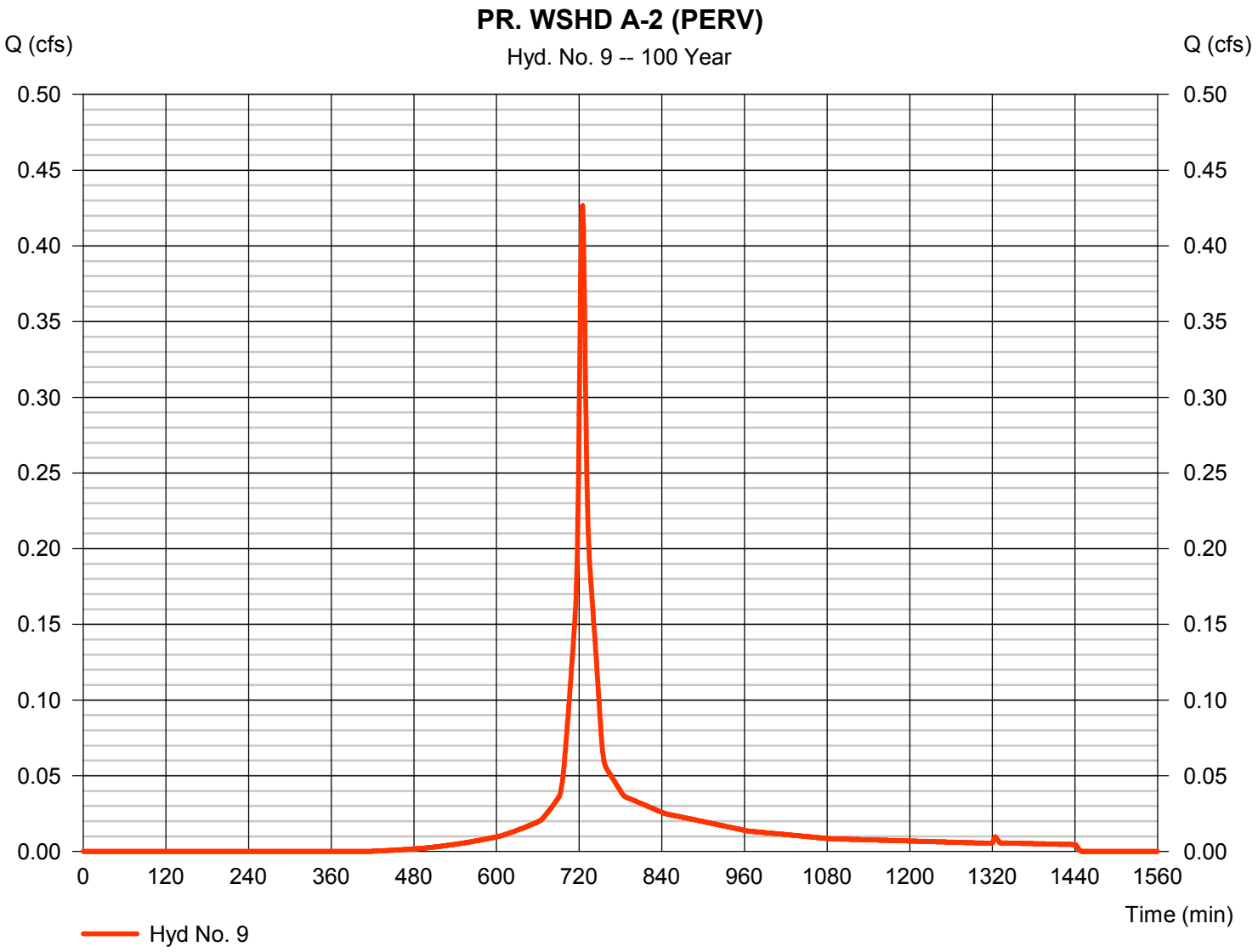
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 9

PR. WSHD A-2 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.427 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 1,321 cuft
Drainage area	= 0.070 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



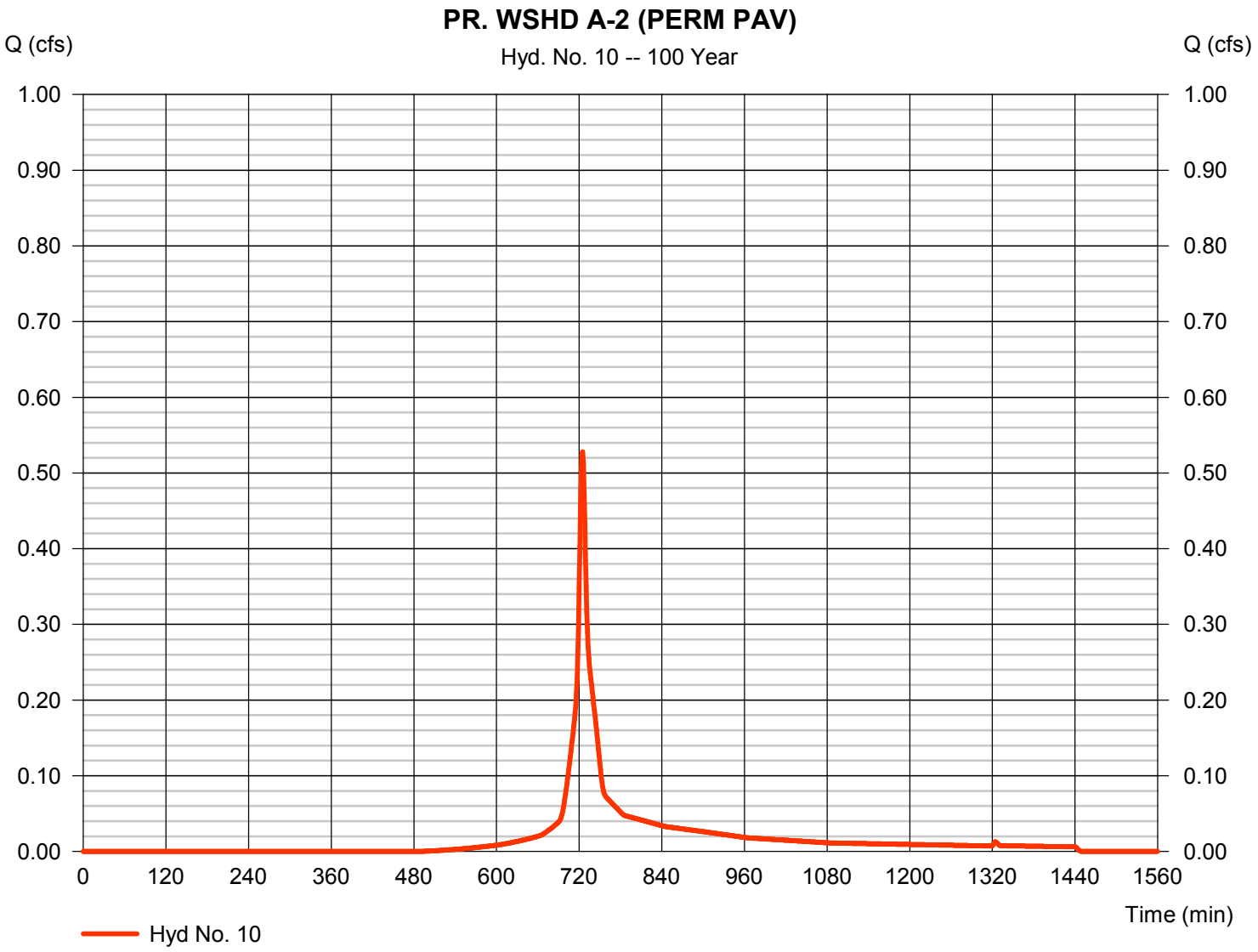
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 10

PR. WSHD A-2 (PERM PAV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.528 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 1,626 cuft
Drainage area	= 0.100 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



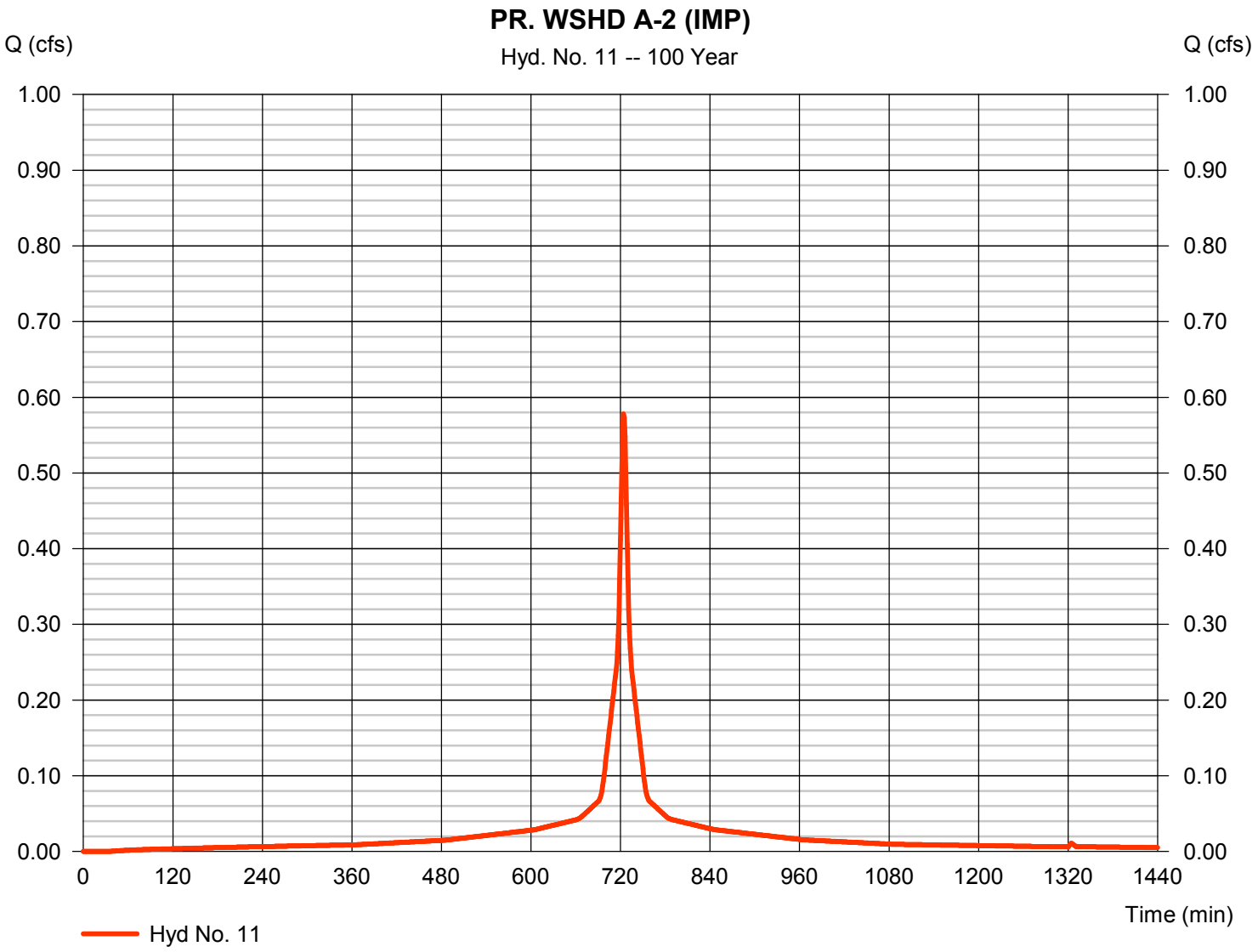
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 11

PR. WSHD A-2 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.578 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 2,068 cuft
Drainage area	= 0.070 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



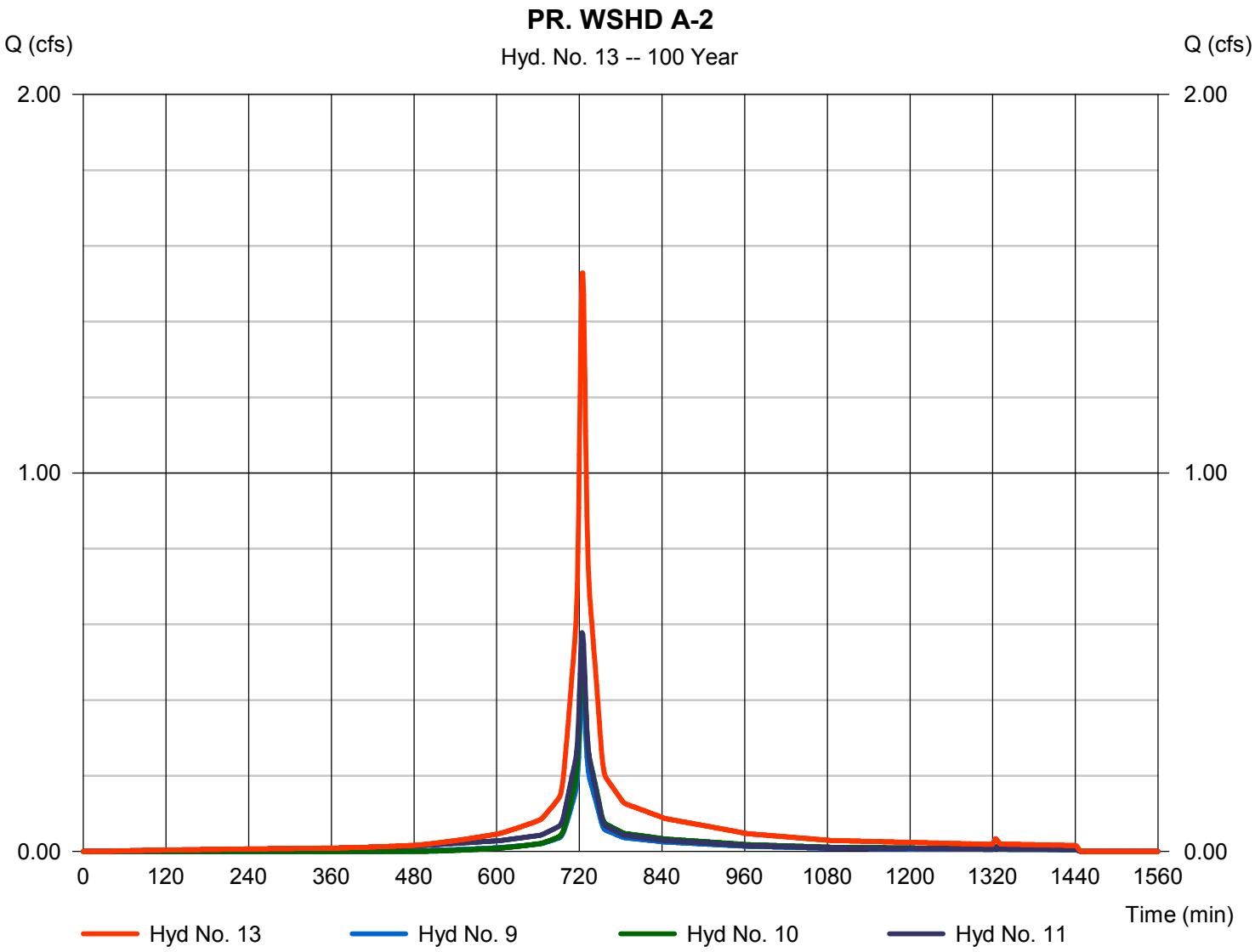
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 13

PR. WSHD A-2

Hydrograph type	= Combine	Peak discharge	= 1.528 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 5,015 cuft
Inflow hyds.	= 9, 10, 11	Contrib. drain. area	= 0.240 ac



Hydrograph Report

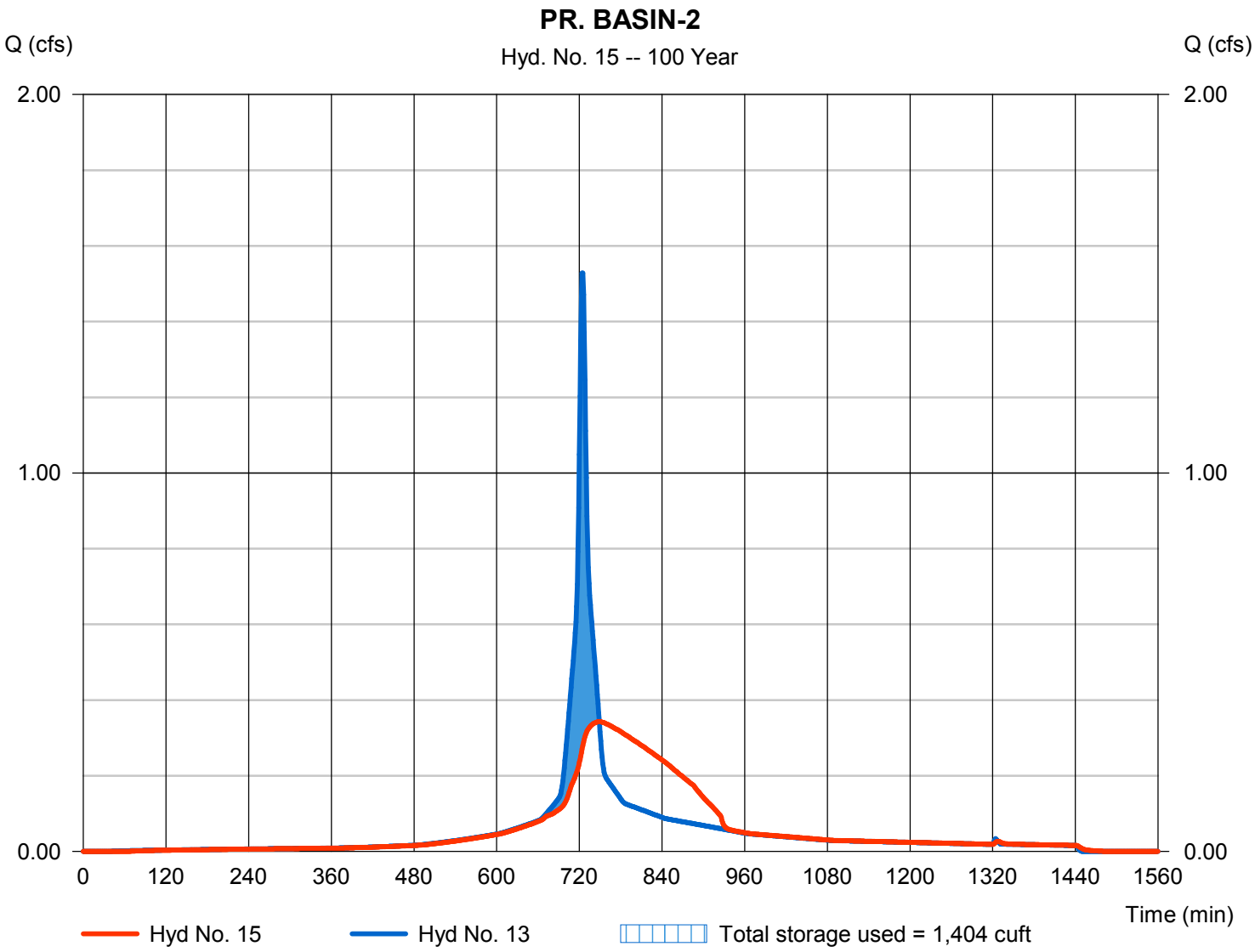
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 15

PR. BASIN-2

Hydrograph type	= Reservoir	Peak discharge	= 0.343 cfs
Storm frequency	= 100 yrs	Time to peak	= 749 min
Time interval	= 1 min	Hyd. volume	= 5,013 cuft
Inflow hyd. No.	= 13 - PR. WSHD A-2	Max. Elevation	= 1.95 ft
Reservoir name	= BASIN-2	Max. Storage	= 1,404 cuft

Storage Indication method used.



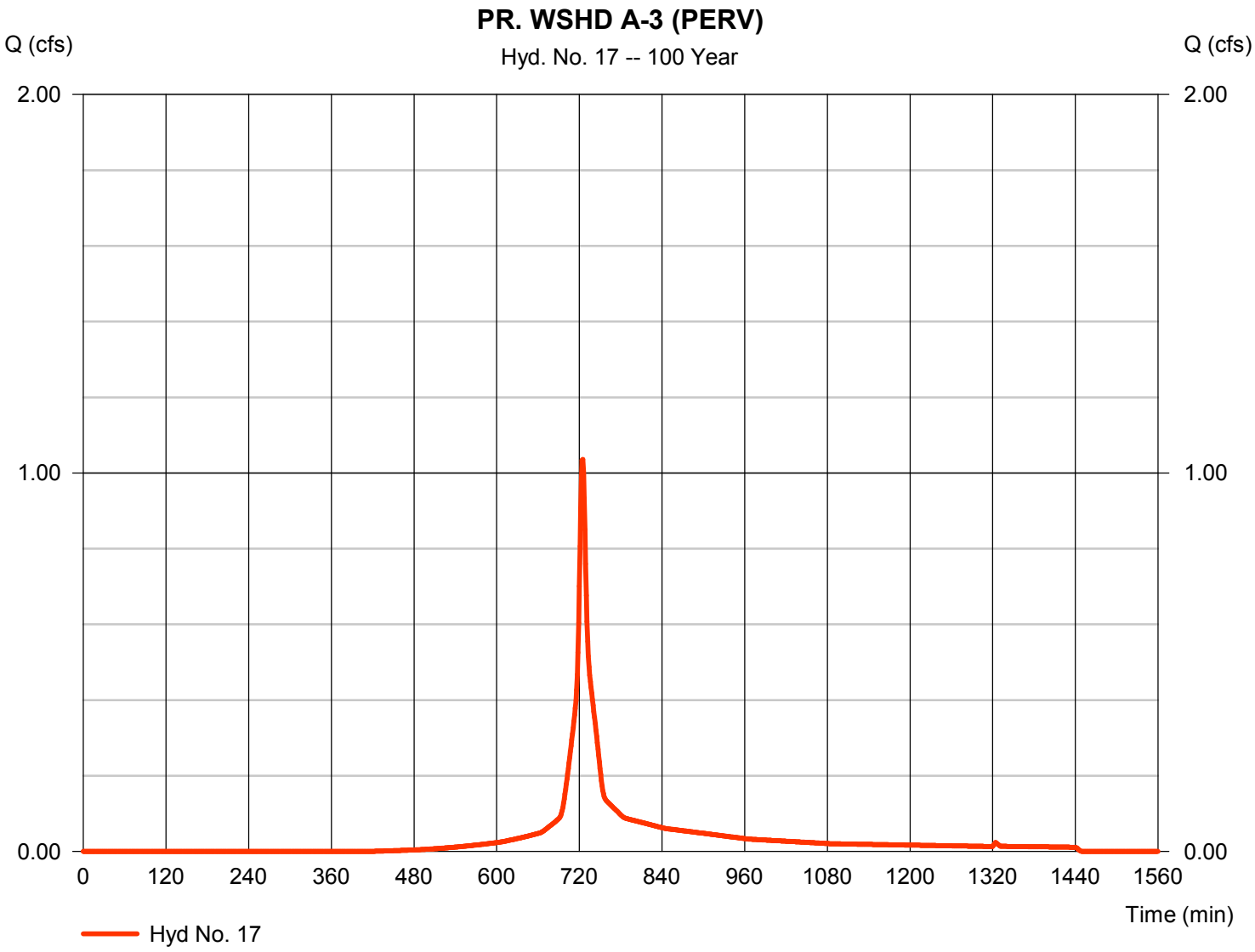
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 17

PR. WSHD A-3 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 1.036 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 3,209 cuft
Drainage area	= 0.170 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



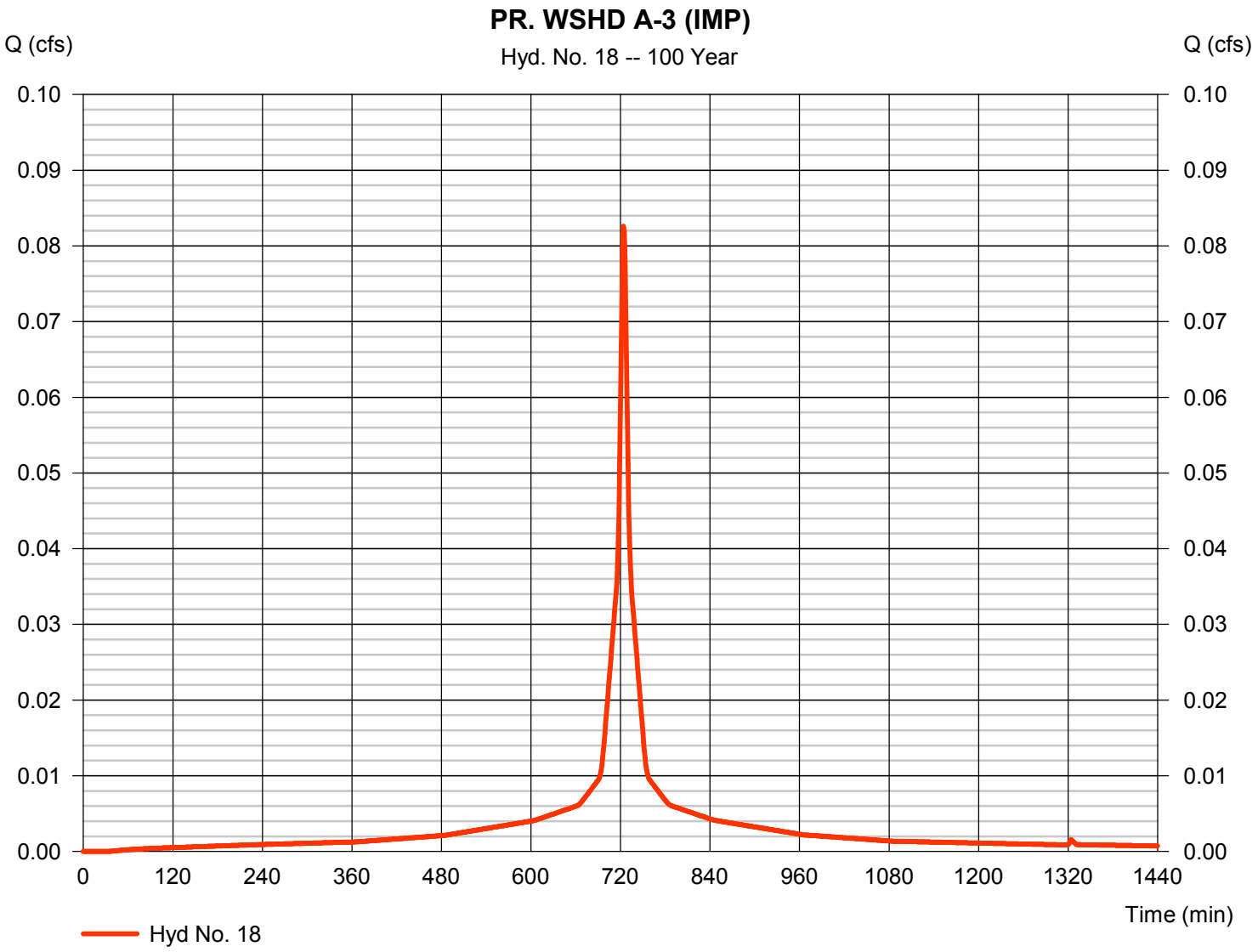
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 18

PR. WSHD A-3 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.083 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 295 cuft
Drainage area	= 0.010 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



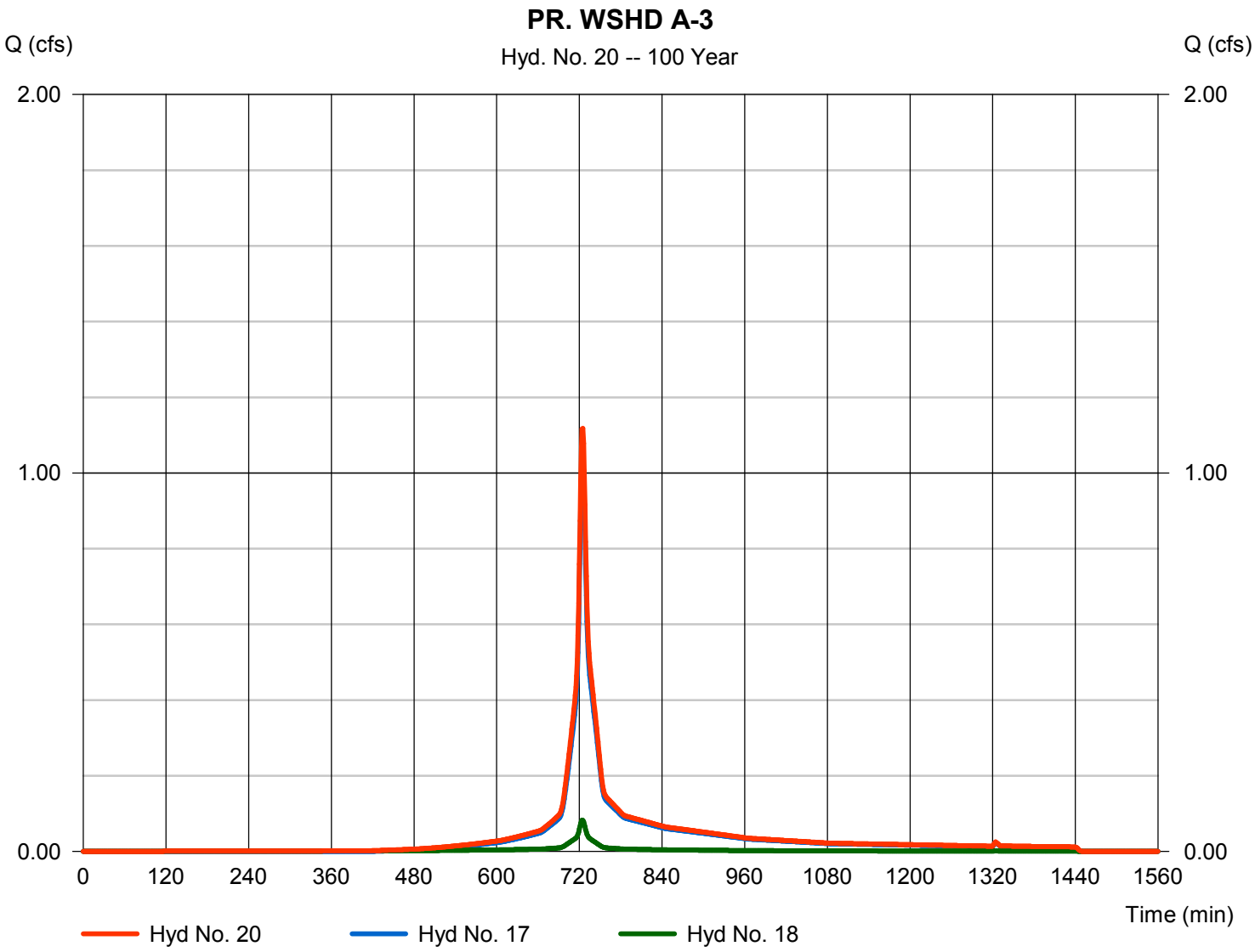
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 20

PR. WSHD A-3

Hydrograph type	= Combine	Peak discharge	= 1.118 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 3,504 cuft
Inflow hyds.	= 17, 18	Contrib. drain. area	= 0.180 ac



Hydrograph Report

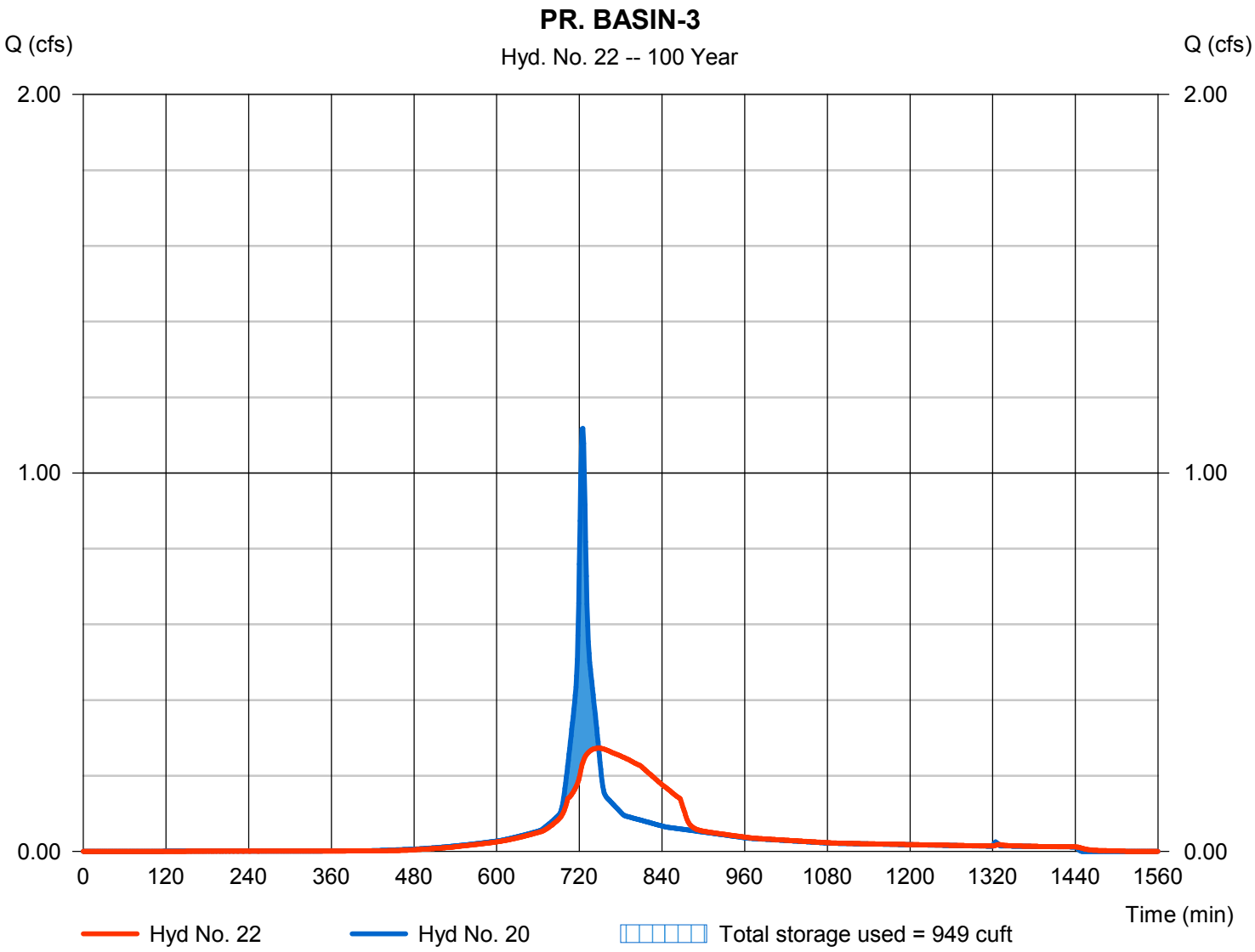
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 22

PR. BASIN-3

Hydrograph type	= Reservoir	Peak discharge	= 0.273 cfs
Storm frequency	= 100 yrs	Time to peak	= 748 min
Time interval	= 1 min	Hyd. volume	= 3,502 cuft
Inflow hyd. No.	= 20 - PR. WSHD A-3	Max. Elevation	= 1.77 ft
Reservoir name	= BASIN-3	Max. Storage	= 949 cuft

Storage Indication method used.



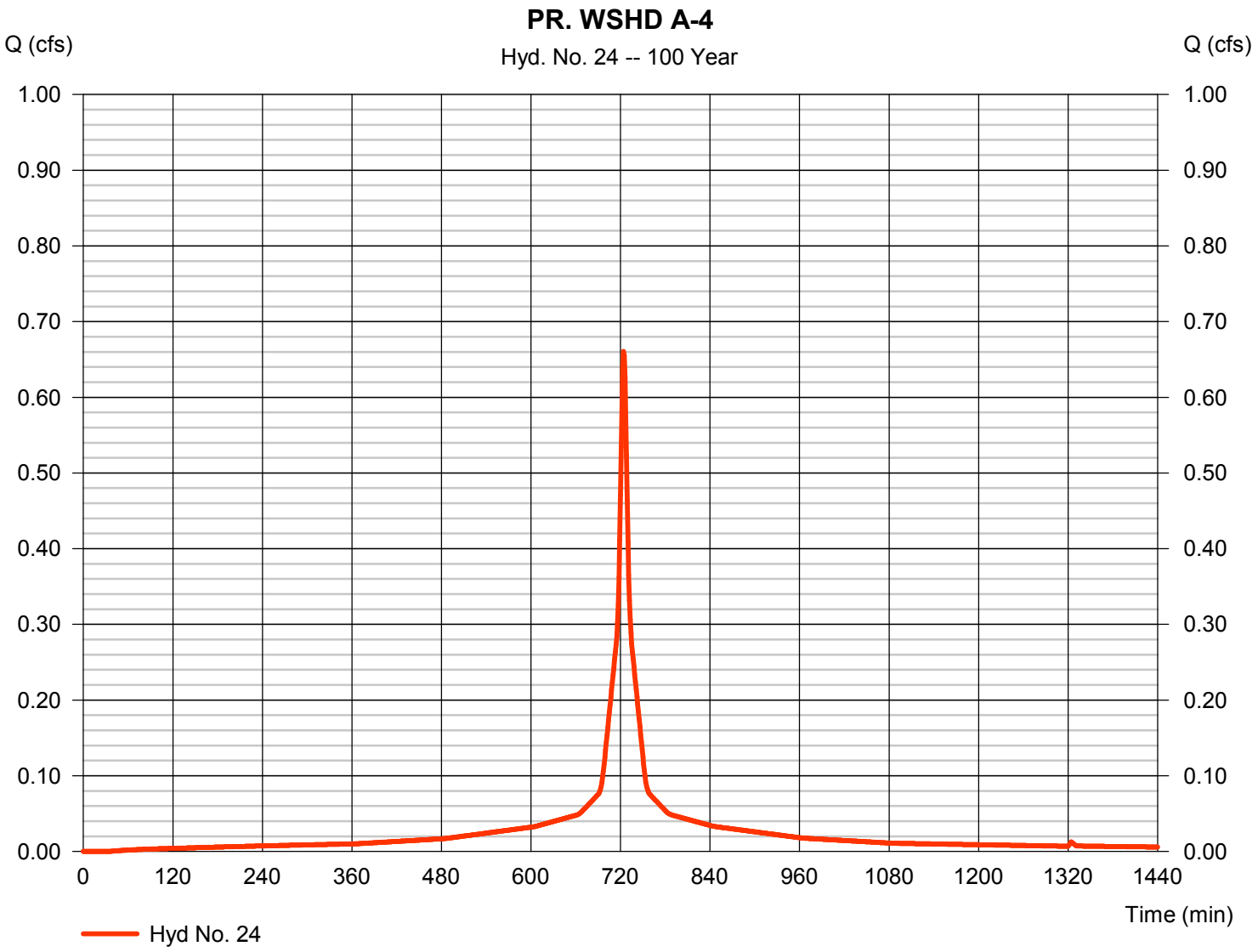
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 24

PR. WSHD A-4

Hydrograph type	= SCS Runoff	Peak discharge	= 0.661 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 2,363 cuft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



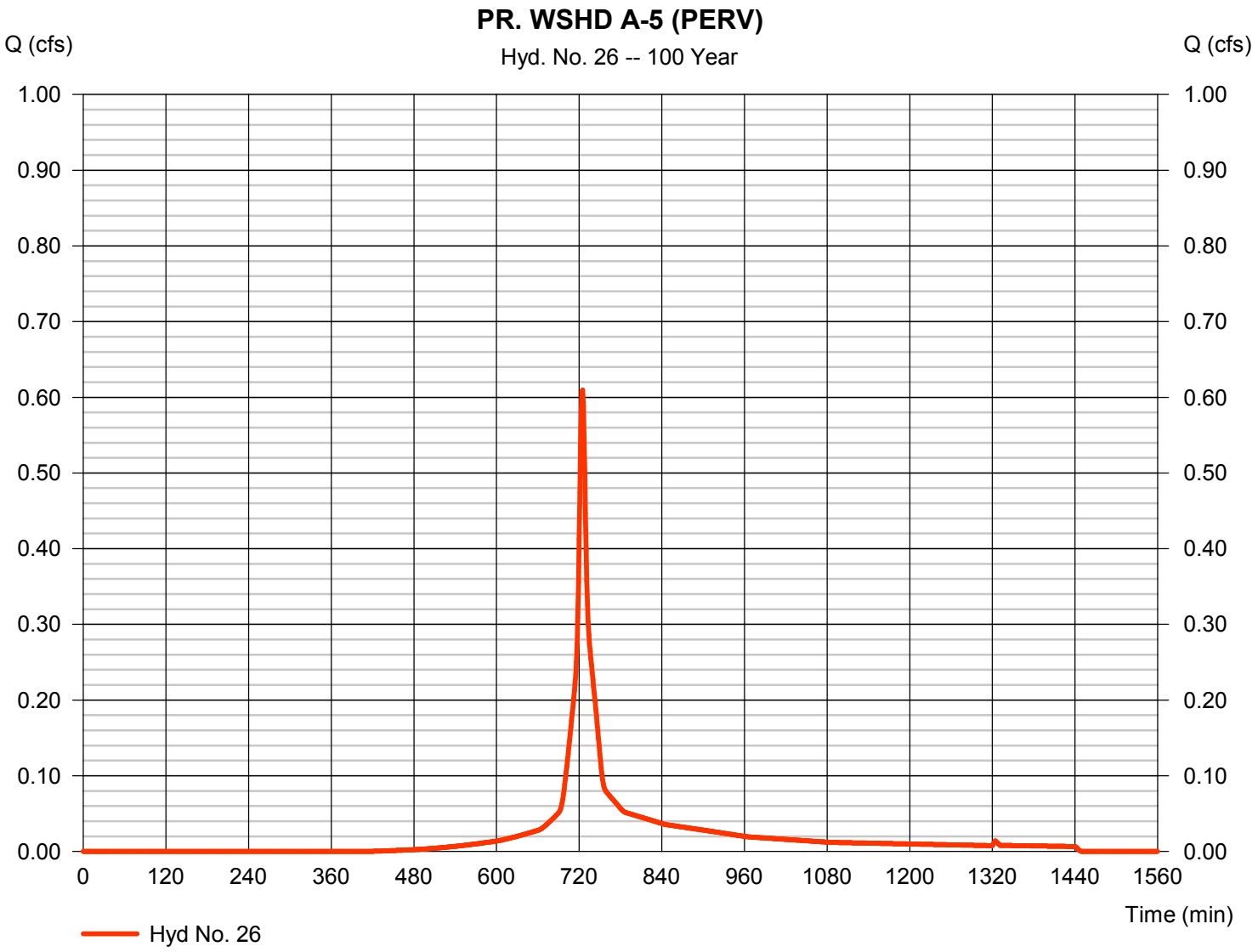
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 26

PR. WSHD A-5 (PERV)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.609 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 1,887 cuft
Drainage area	= 0.100 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



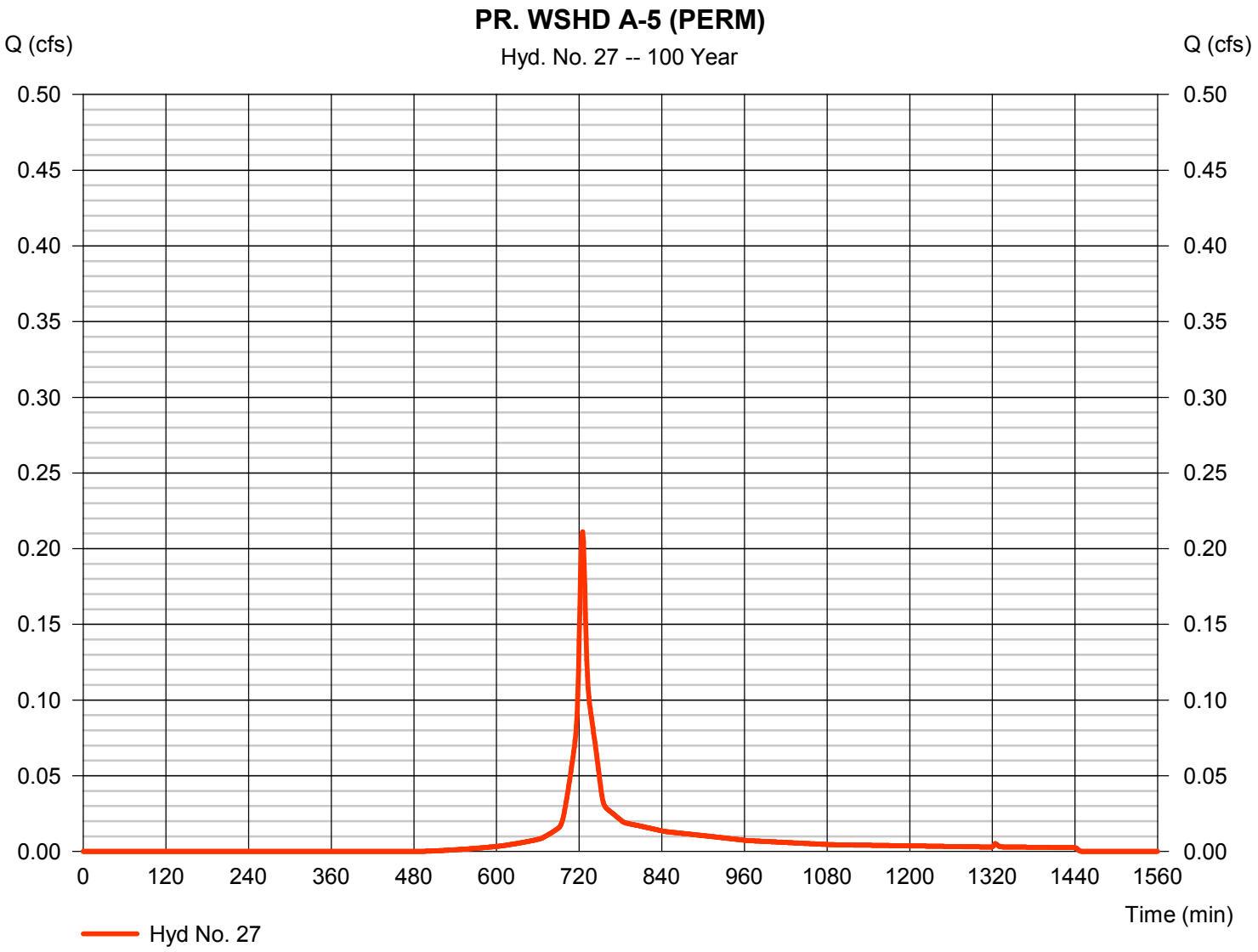
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 27

PR. WSHD A-5 (PERM)

Hydrograph type	= SCS Runoff	Peak discharge	= 0.211 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 651 cuft
Drainage area	= 0.040 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



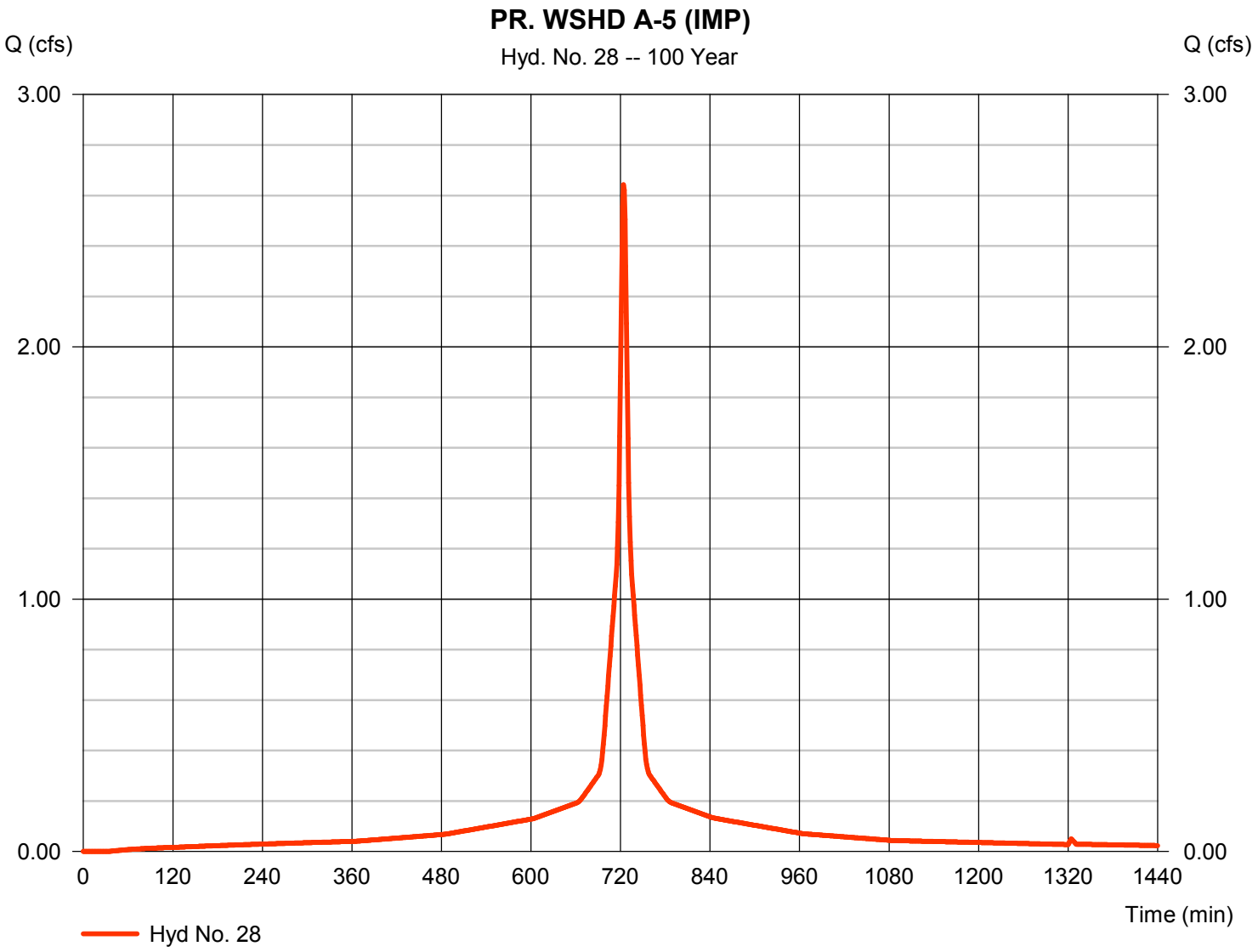
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 28

PR. WSHD A-5 (IMP)

Hydrograph type	= SCS Runoff	Peak discharge	= 2.642 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 9,452 cuft
Drainage area	= 0.320 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 8.13 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



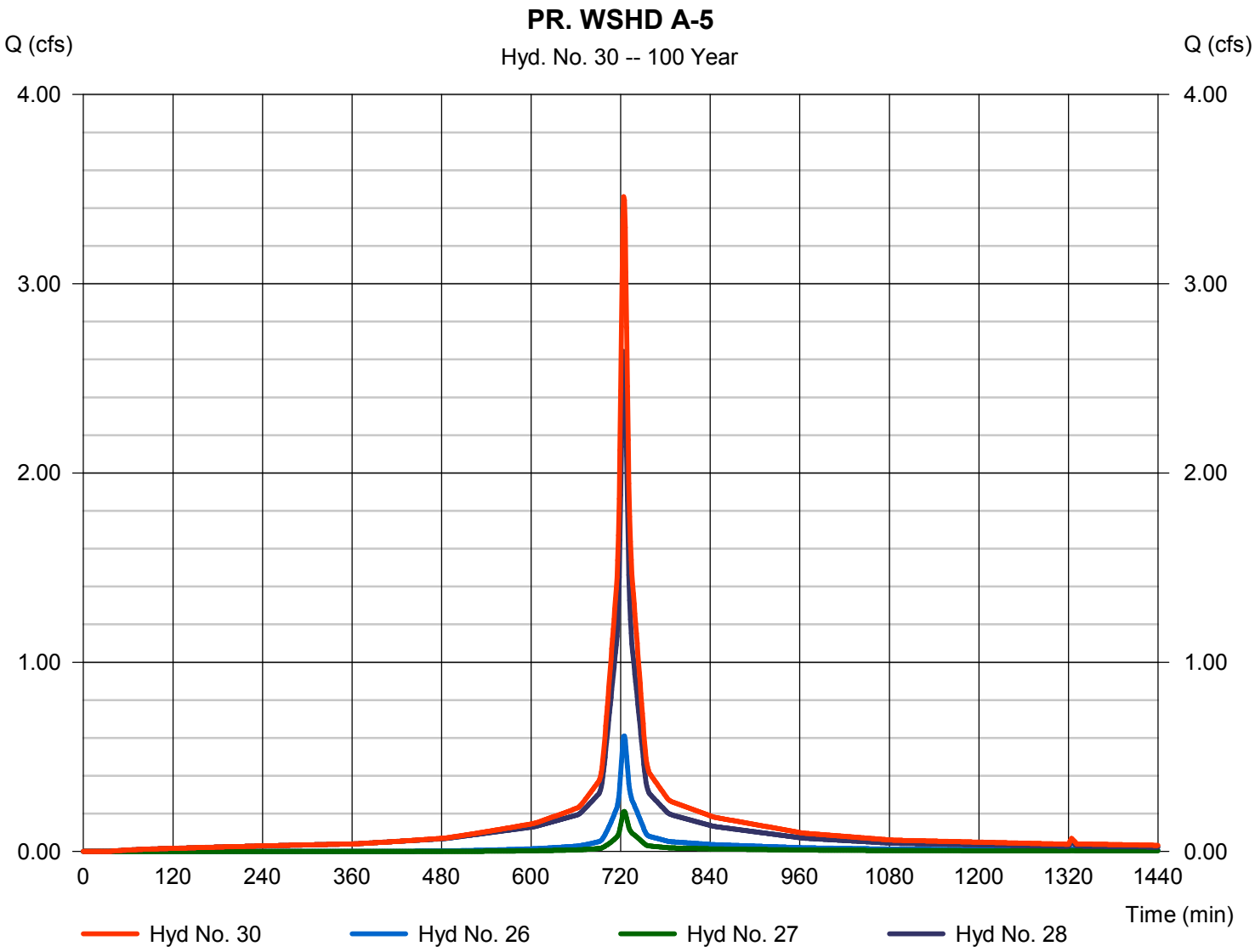
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 30

PR. WSHD A-5

Hydrograph type	= Combine	Peak discharge	= 3.460 cfs
Storm frequency	= 100 yrs	Time to peak	= 724 min
Time interval	= 1 min	Hyd. volume	= 11,990 cuft
Inflow hyds.	= 26, 27, 28	Contrib. drain. area	= 0.460 ac



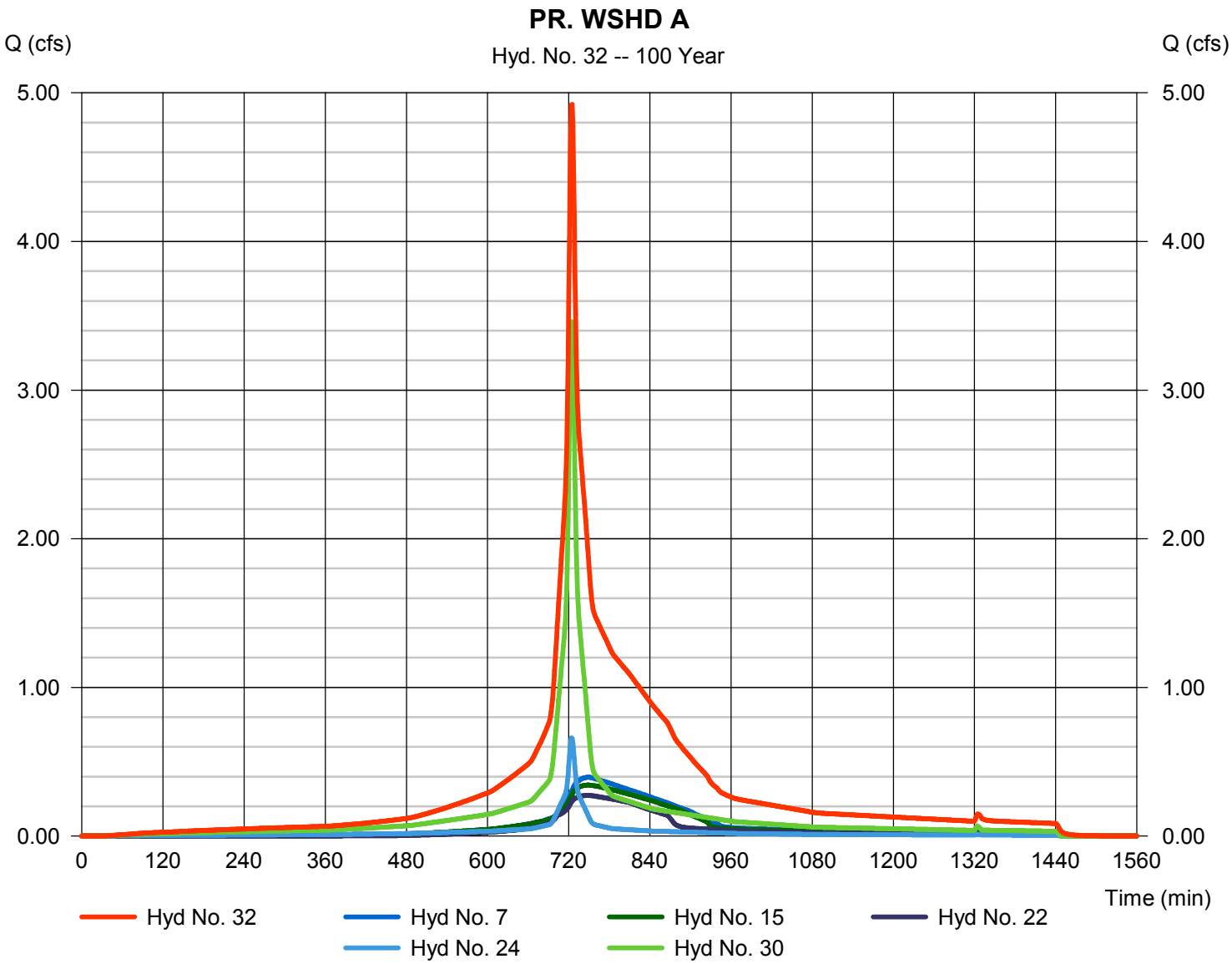
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Friday, 01 / 23 / 2015

Hyd. No. 32

PR. WSHD A

Hydrograph type	= Combine	Peak discharge	= 4.921 cfs
Storm frequency	= 100 yrs	Time to peak	= 725 min
Time interval	= 1 min	Hyd. volume	= 28,343 cuft
Inflow hyds.	= 7, 15, 22, 24, 30	Contrib. drain. area	= 0.080 ac



Pond Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 12 / 18 / 2014

Pond No. 1 - RAIN GARDEN-1

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 2.62 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	2.62	00	0	0
0.10	2.72	283	9	9
0.20	2.82	363	32	42
0.30	2.92	454	41	82
0.40	3.02	558	51	133
0.50	3.12	673	61	194

Culvert / Orifice Structures

		[A]	[B]	[C]	[PrfRsr]
Rise (in)	=	0.00	0.00	0.00	0.00
Span (in)	=	0.00	0.00	0.00	0.00
No. Barrels	=	0	0	0	0
Invert El. (ft)	=	0.00	0.00	0.00	0.00
Length (ft)	=	0.00	0.00	0.00	0.00
Slope (%)	=	0.00	0.00	0.00	n/a
N-Value	=	.000	.000	.000	n/a
Orifice Coeff.	=	0.00	0.00	0.00	0.00
Multi-Stage	=	n/a	No	No	No

Weir Structures

		[A]	[B]	[C]	[D]
Crest Len (ft)	=	0.00	0.00	0.00	0.00
Crest El. (ft)	=	0.00	0.00	0.00	0.00
Weir Coeff.	=	0.00	0.00	0.00	0.00
Weir Type	=	---	---	---	---
Multi-Stage	=	No	No	No	No

Exfil.(in/hr) = 0.000 (by Contour)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	2.62	---	---	---	---	---	---	---	---	---	---	0.000
0.10	9	2.72	---	---	---	---	---	---	---	---	---	---	0.000
0.20	42	2.82	---	---	---	---	---	---	---	---	---	---	0.000
0.30	82	2.92	---	---	---	---	---	---	---	---	---	---	0.000
0.40	133	3.02	---	---	---	---	---	---	---	---	---	---	0.000
0.50	194	3.12	---	---	---	---	---	---	---	---	---	---	0.000

Pond Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 12 / 18 / 2014

Pond No. 2 - RAIN GARDEN-2

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 3.33 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	3.33	00	0	0
0.10	3.43	43	1	1
0.20	3.53	109	7	9
0.30	3.63	181	14	23
0.40	3.73	258	22	45
0.50	3.83	446	35	80

Culvert / Orifice Structures

		[A]	[B]	[C]	[PrfRsr]
Rise (in)	=	0.00	0.00	0.00	0.00
Span (in)	=	0.00	0.00	0.00	0.00
No. Barrels	=	0	0	0	0
Invert El. (ft)	=	0.00	0.00	0.00	0.00
Length (ft)	=	0.00	0.00	0.00	0.00
Slope (%)	=	0.00	0.00	0.00	n/a
N-Value	=	.000	.000	.000	n/a
Orifice Coeff.	=	0.00	0.00	0.00	0.00
Multi-Stage	=	n/a	No	No	No

Weir Structures

		[A]	[B]	[C]	[D]
Crest Len (ft)	=	0.00	0.00	0.00	0.00
Crest El. (ft)	=	0.00	0.00	0.00	0.00
Weir Coeff.	=	0.00	0.00	0.00	0.00
Weir Type	=	---	---	---	---
Multi-Stage	=	No	No	No	No

Exfil.(in/hr) = 0.000 (by Contour)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	3.33	---	---	---	---	---	---	---	---	---	---	0.000
0.10	1	3.43	---	---	---	---	---	---	---	---	---	---	0.000
0.20	9	3.53	---	---	---	---	---	---	---	---	---	---	0.000
0.30	23	3.63	---	---	---	---	---	---	---	---	---	---	0.000
0.40	45	3.73	---	---	---	---	---	---	---	---	---	---	0.000
0.50	80	3.83	---	---	---	---	---	---	---	---	---	---	0.000

Pond Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 12 / 18 / 2014

Pond No. 3 - RAIN GARDEN 3

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 2.73 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	2.73	00	0	0
0.10	2.83	381	13	13
0.20	2.93	555	47	59
0.30	3.03	744	65	124
0.40	3.13	944	84	208
0.50	3.23	1,155	105	313

Culvert / Orifice Structures

		[A]	[B]	[C]	[PrfRsr]
Rise (in)	=	0.00	0.00	0.00	0.00
Span (in)	=	0.00	0.00	0.00	0.00
No. Barrels	=	0	0	0	0
Invert El. (ft)	=	0.00	0.00	0.00	0.00
Length (ft)	=	0.00	0.00	0.00	0.00
Slope (%)	=	0.00	0.00	0.00	n/a
N-Value	=	.000	.000	.000	n/a
Orifice Coeff.	=	0.00	0.00	0.00	0.00
Multi-Stage	=	n/a	No	No	No

Weir Structures

		[A]	[B]	[C]	[D]
Crest Len (ft)	=	0.00	0.00	0.00	0.00
Crest El. (ft)	=	0.00	0.00	0.00	0.00
Weir Coeff.	=	0.00	0.00	0.00	0.00
Weir Type	=	---	---	---	---
Multi-Stage	=	No	No	No	No

Exfil.(in/hr) = 0.000 (by Contour)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	2.73	---	---	---	---	---	---	---	---	---	---	0.000
0.10	13	2.83	---	---	---	---	---	---	---	---	---	---	0.000
0.20	59	2.93	---	---	---	---	---	---	---	---	---	---	0.000
0.30	124	3.03	---	---	---	---	---	---	---	---	---	---	0.000
0.40	208	3.13	---	---	---	---	---	---	---	---	---	---	0.000
0.50	313	3.23	---	---	---	---	---	---	---	---	---	---	0.000

APPENDIX C

Stormwater Conveyance Calculations

LANGAN

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
1	End	9.000	-28.474	Grate	0.00	0.04	0.51	6.0	2.51	0.44	2.55	8	Cir	0.012	1.00	4.85	AD1-BAS3

Project File: AD1 TO BAS3.stm | Number of lines: 1 | Date: 1/23/2015

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	9.000	0.04	0.04	0.51	0.02	0.02	6.0	6.0	6.1	0.12	0.87	1.86	8	0.44	2.51	2.55	2.67	2.72	4.94	4.85	AD1-BAS3

Project File: AD1 TO BAS3.stm | Number of lines: 1 | Run Date: 1/23/2015

NOTES:Intensity = 59.41 / (Inlet time + 11.40) ^ 0.80 ; Return period =Yrs. 10 ; c = cir e = ellip b = box

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
2	1	32.000	-72.310	Grate	0.00	0.03	0.51	6.0	1.91	0.50	2.07	8	Cir	0.012	1.00	4.43	AD2-AD3
1	End	1.000	37.349	Grate	0.00	0.08	0.53	6.0	1.90	1.00	1.91	8	Cir	0.012	1.44	4.00	AD3-BAS3

Project File: AD2-BAS3.stm | Number of lines: 2 | Date: 1/23/2015

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
2	1	32.000	0.03	0.03	0.51	0.02	0.02	6.0	6.0	6.1	0.09	0.93	0.58	8	0.50	1.91	2.07	2.32	2.33	4.00	4.43	AD2-AD3
1	End	1.000	0.08	0.11	0.53	0.04	0.06	6.0	6.9	5.8	0.34	1.31	2.84	8	1.00	1.90	1.91	2.13	2.18	4.00	4.00	AD3-BAS3

Project File: AD2-BAS3.stm | Number of lines: 2 | Run Date: 1/23/2015

NOTES:Intensity = 59.41 / (Inlet time + 11.40) ^ 0.80 ; Return period =Yrs. 10 ; c = cir e = ellip b = box

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
3	1	30.000	-16.884	Grate	0.00	0.03	0.84	6.0	0.98	0.50	1.13	8	Cir	0.012	1.00	3.61	AD4-AD5
2	1	32.000	48.180	Grate	0.00	0.03	0.62	6.0	0.84	0.50	1.00	8	Cir	0.012	1.00	3.23	AD6-AD5
1	End	19.000	79.586	Grate	0.00	0.03	0.81	6.0	0.75	0.47	0.84	8	Cir	0.012	1.18	3.82	AD5-BAS2

Project File: AD6 TO BAS2.stm | Number of lines: 3 | Date: 1/23/2015

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
3	1	30.000	0.03	0.03	0.84	0.03	0.03	6.0	6.0	6.1	0.15	0.93	1.52	8	0.50	0.98	1.13	1.26	1.31	3.82	3.61	AD4-AD5
2	1	32.000	0.03	0.03	0.62	0.02	0.02	6.0	6.0	6.1	0.11	0.93	0.67	8	0.50	0.84	1.00	1.26	1.27	3.82	3.23	AD6-AD5
1	End	19.000	0.03	0.09	0.81	0.02	0.07	6.0	6.8	5.8	0.40	0.90	2.50	8	0.47	0.75	0.84	1.06	1.15	4.17	3.82	AD5-BAS2

Project File: AD6 TO BAS2.stm | Number of lines: 3 | Run Date: 1/23/2015

NOTES:Intensity = 59.41 / (Inlet time + 11.40) ^ 0.80 ; Return period =Yrs. 10 ; c = cir e = ellip b = box

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
3	2	25.000	-15.335	Grate	0.00	0.09	0.66	6.0	0.88	0.48	1.00	8	Cir	0.012	1.00	3.23	AD9-AD8
2	1	16.000	-78.773	Grate	0.00	0.03	0.67	6.0	0.80	0.50	0.88	8	Cir	0.012	0.50	3.23	AD8-AD7
1	End	14.000	0.000	Grate	0.00	0.04	0.62	6.0	0.73	0.50	0.80	8	Cir	0.012	1.48	3.23	AD7-BAS1

Project File: AD9 TO BAS1.stm | Number of lines: 3 | Date: 1/23/2015

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
3	2	25.000	0.09	0.09	0.66	0.06	0.06	6.0	6.0	6.1	0.36	0.91	1.35	8	0.48	0.88	1.00	1.42	1.43	3.23	3.23	AD9-AD8
2	1	16.000	0.03	0.12	0.67	0.02	0.08	6.0	6.3	6.0	0.47	0.93	1.55	8	0.50	0.80	0.88	1.38	1.40	3.23	3.23	AD8-AD7
1	End	14.000	0.04	0.16	0.62	0.02	0.10	6.0	6.5	5.9	0.62	0.93	2.84	8	0.50	0.73	0.80	1.13	1.20	3.18	3.23	AD7-BAS1

Project File: AD9 TO BAS1.stm | Number of lines: 3 | Run Date: 1/23/2015

NOTES:Intensity = 59.41 / (Inlet time + 11.40) ^ 0.80 ; Return period =Yrs. 10 ; c = cir e = ellip b = box

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
1	End	13.000	-155.289	Grate	0.00	0.06	0.67	6.0	1.53	0.54	1.60	8	Cir	0.012	1.00	3.80	AD10-BAS2

Project File: AD10-BAS2.stm | Number of lines: 1 | Date: 1/23/2015

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	13.000	0.06	0.06	0.67	0.04	0.04	6.0	6.0	6.1	0.24	0.96	2.32	8	0.54	1.53	1.60	1.76	1.83	4.17	3.80	AD10-BAS2

Project File: AD10-BAS2.stm | Number of lines: 1 | Run Date: 1/23/2015

NOTES:Intensity = 59.41 / (Inlet time + 11.40) ^ 0.80 ; Return period =Yrs. 10 ; c = cir e = ellip b = box

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
2	1	30.000	0.000	Grate	0.00	0.05	0.82	6.0	0.74	0.50	0.89	8	Cir	0.012	1.00	3.12	AD11-AD12
1	End	34.000	0.000	Grate	0.00	0.07	0.60	6.0	0.57	0.50	0.74	8	Cir	0.012	0.50	3.12	AD12-BAS1

Project File: AD11 TO BAS1.stm | Number of lines: 2 | Date: 1/23/2015

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
2	1	30.000	0.05	0.05	0.82	0.04	0.04	6.0	6.0	6.1	0.25	0.93	1.48	8	0.50	0.74	0.89	1.14	1.16	3.12	3.12	AD11-AD12
1	End	34.000	0.07	0.12	0.60	0.04	0.08	6.0	6.3	6.0	0.50	0.93	2.69	8	0.50	0.57	0.74	0.92	1.09	3.56	3.12	AD12-BAS1

Project File: AD11 TO BAS1.stm | Number of lines: 2 | Run Date: 1/23/2015

NOTES:Intensity = 59.41 / (Inlet time + 11.40) ^ 0.80 ; Return period =Yrs. 10 ; c = cir e = ellip b = box

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
1	End	18.000	-83.723	Grate	0.00	0.09	0.62	6.0	0.80	0.50	0.89	8	Cir	0.012	1.00	3.12	AD13-BAS2

Project File: AD13-BAS2.stm | Number of lines: 1 | Date: 1/23/2015

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	18.000	0.09	0.09	0.62	0.06	0.06	6.0	6.0	6.1	0.34	0.93	2.44	8	0.50	0.80	0.89	1.08	1.17	4.22	3.12	AD13-BAS2

Project File: AD13-BAS2.stm | Number of lines: 1 | Run Date: 1/23/2015

NOTES:Intensity = 59.41 / (Inlet time + 11.40) ^ 0.80 ; Return period =Yrs. 10 ; c = cir e = ellip b = box

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
3	2	35.000	93.656	Grate	0.00	0.02	0.99	6.0	2.23	0.51	2.41	8	Cir	0.012	1.00	4.50	AD16-AD15
2	1	33.000	-87.448	Grate	0.00	0.03	0.99	6.0	1.90	1.00	2.23	8	Cir	0.012	1.50	4.40	AD15-AD14
1	End	50.000	89.275	Grate	0.00	0.03	0.99	6.0	0.90	2.00	1.90	8	Cir	0.012	1.50	4.50	AD14-DOGH1

Project File: AD16 TO DOGHOUSE MH-1.stm | Number of lines: 3 | Date: 1/23/2015

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
3	2	35.000	0.02	0.02	0.99	0.02	0.02	6.0	6.0	6.1	0.12	0.94	0.88	8	0.51	2.23	2.41	2.62	2.63	4.40	4.50	AD16-AD15
2	1	33.000	0.03	0.05	0.99	0.03	0.05	6.0	6.7	5.9	0.29	1.31	2.11	8	1.00	1.90	2.23	2.22	2.48	4.50	4.40	AD15-AD14
1	End	50.000	0.03	0.08	0.99	0.03	0.08	6.0	6.9	5.8	0.46	1.85	3.61	8	2.00	0.90	1.90	1.13	2.22	4.92	4.50	AD14-DOGH1

Project File: AD16 TO DOGHOUSE MH-1.stm | Number of lines: 3 | Run Date: 1/23/2015

NOTES:Intensity = 59.41 / (Inlet time + 11.40) ^ 0.80 ; Return period =Yrs. 10 ; c = cir e = ellip b = box

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
1	End	15.000	-27.061	Grate	0.00	0.03	0.51	6.0	2.89	1.00	3.04	8	Cir	0.012	1.00	6.00	AD17-BAS3

Project File: AD17 TO BAS3.stm | Number of lines: 1 | Date: 1/23/2015

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	15.000	0.03	0.03	0.51	0.02	0.02	6.0	6.0	6.1	0.09	1.31	1.97	8	1.00	2.89	3.04	3.01	3.18	8.10	6.00	AD17-BAS3

Project File: AD17 TO BAS3.stm | Number of lines: 1 | Run Date: 1/23/2015

NOTES:Intensity = 59.41 / (Inlet time + 11.40) ^ 0.80 ; Return period =Yrs. 10 ; c = cir e = ellip b = box

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
4	1	88.000	-104.224	MH	0.26	0.00	0.00	6.0	-0.26	0.50	0.18	8	Cir	0.012	1.00	3.75	OCS1-MH3
3	1	51.000	-64.515	MH	0.24	0.00	0.00	6.0	-0.44	1.90	0.53	8	Cir	0.012	1.00	4.27	OCS2-MH3
2	1	23.000	50.000	MH	0.20	0.00	0.00	6.0	0.63	0.48	0.74	8	Cir	0.012	1.00	4.47	OCS3-MH3
1	End	38.000	-75.796	MH	0.00	0.00	0.00	6.0	-0.75	0.50	-0.56	8	Cir	0.012	1.00	4.16	MH3-DOGH2

Project File: JACKSON ST DISCHARGE.stm | Number of lines: 4 | Date: 1/23/2015

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
4	1	88.000	0.00	0.00	0.00	0.00	0.00	6.0	6.0	0.0	0.26	0.93	2.17	8	0.50	-0.26	0.18	0.01	0.42	4.16	3.75	OCS1-MH3
3	1	51.000	0.00	0.00	0.00	0.00	0.00	6.0	6.0	0.0	0.24	1.80	1.64	8	1.90	-0.44	0.53	0.01	0.76	4.16	4.27	OCS2-MH3
2	1	23.000	0.00	0.00	0.00	0.00	0.00	6.0	6.0	0.0	0.20	0.90	2.08	8	0.48	0.63	0.74	0.84	0.95	4.16	4.47	OCS3-MH3
1	End	38.000	0.00	0.00	0.00	0.00	0.00	6.0	6.7	0.0	0.70	0.93	2.91	8	0.50	-0.75	-0.56	-0.32	-0.13	3.76	4.16	MH3-DOGH2

Project File: JACKSON ST DISCHARGE.stm | Number of lines: 4 | Run Date: 1/23/2015

NOTES:Intensity = 59.41 / (Inlet time + 11.40) ^ 0.80 ; Return period =Yrs. 10 ; c = cir e = ellip b = box

Remedial Action Work Plan (RAWP) Draft,
Prepared by Langan Engineering & Environmental Services, 12/15/2014
Hoboken South West Park Project / Project No. SRF 340635-05

DRAFT

REMEDIAL ACTION WORK PLAN

For

HOBOKEN SW BLOCK 12 PARK
Block 12; Lots 1-7, 9, 12-18
57 Harrison Street
Hoboken, New Jersey
NJDEP PI #585028

Prepared For:

The City of Hoboken
94 Washington Street
Hoboken, New Jersey 07030

Prepared By:

Langan Engineering and Environmental Services, Inc.
River Drive Center 1, 619 River Drive
Elmwood Park, New Jersey 07407
NJ Certificate of Authorization No: 24GA27996400

15 December 2014
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1.0 INTRODUCTION

This Remedial Action Work Plan (RAWP) was prepared by Langan Engineering & Environmental Services, Inc. (Langan) on behalf of the responsible party, the City of Hoboken (Hoboken). This RAWP presents a plan for remediation of the property identified as Hoboken SW Block 12 Park (Hoboken SW Park), Block 12; Lots 1-7, 9, 12-18, 57 Harrison Street, Hoboken, Hudson County, New Jersey (hereafter identified as the Site).

The Site is identified by the NJDEP Program Interest (PI) #585028. The singular environmental area of concern (AOC) identified on Site is historic fill material. As part of planned redevelopment of the Site into a public park, the identified AOC will be remediated by Hoboken pursuant to NJAC 7:26C – *Administrative Requirements for the Remediation of Contaminated Sites*, associated regulations, and New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for Site Remediation (N.J.A.C. 7:26E). The remedial activities are being performed under the review of a New Jersey Licensed Site Remediation Professional (LSRP) retained by Hoboken.

1.1 Site Description

The Hoboken SW Park has been identified via a single address 57 Harrison Street for ease of identification, however the entire property contains numerous Lots and associate addresses, as follows:

- Block 12, Lots 1-6, 57-67 Harrison Street;
- Block 12, Lot 7, 69 Harrison Street;
- Block 12, Lot 9, 67-69 Paterson Avenue
- Block 12, Lot 12, 57 Paterson Avenue;
- Block 12, Lot 13, 55 Paterson Avenue;
- Block 12, Lot 14, 51-53 Paterson Avenue;
- Block 12, Lot 15, 64 Jackson Street; and,

- Block 12, lots 16-18, Jackson Street.

The Site is situated in the south western portion of Hoboken and is bordered to the north by Paterson Avenue, to the south by Observer Highway, to the west by Harrison Street, and to the east by Jackson Street. The Site presently contains an asphalt covered parking area, and an undeveloped vegetated Lot. The Site is approximately 0.75 acres in size, with ground surface elevation of approximately 13 feet above mean sea level (MSL), with a position described as Easting 619.028, Northing 694,044.

The neighboring properties include a mix of residential properties, industrial properties, and commercial properties.

Figure 1 provides a Site Location Map, ***Figure 2*** provides a Municipal Tax Map, while ***Figure 3*** provides an Aerial Photograph of the Site and the neighboring properties.

1.2 Site History

The Site, or portions thereof, has realized development since the late 1800's. Prior to the present uses, the Site history is best detailed in historic Sanborn Fire Insurance Maps (Sanborn), and historic Topographic maps dating back to 1891.

As detailed in the *Preliminary Assessment Report* (PAR) for the subject Site dated January 2012, and completed by Boswell McClave Engineering (***Appendix A***), the Site included undeveloped parcels including 1-7, 9, 11-18; as well as buildings containing stores and/or dwellings. [*Lot 11 was included as of the date of the PAR, but has since been removed from the project Site*]. The southern portion of Block 12 contained the foundations for a portion of an elevated superstructure of the North Hudson County Railway. This railway provided service from the Jersey City Heights positioned to the west, to the Lackawanna Terminal to the east along the Hudson River (***Appendix B***).

The 1938 Sanborn maps provide evidence of increased development on the Site, including the presence of dwellings, multistory buildings including stores and apartments, storage buildings, and an ice house. Selected Lots including 1-6, 16-18 remained undeveloped. While the southern portion of Block 12 contained an elevated superstructure of the North Hudson County Railway.

The 1951 Sanborn maps identified selected Lots including 1-6, 16-18 as undeveloped. The Site includes dwellings, multistory buildings including stores and apartments, storage buildings, and a metal warehouse. The southern portion of Block 12 contained an elevated superstructure of the North Hudson County Railway.

The 1979 Sanborn maps identified selected Lots including 1-6, 16-18 as undeveloped. The remainder of the Site maintains functions similar to those identified in the 1951 Sanborn map. The southern portion of Block 12 has realized the removal of the elevated superstructure of the North Hudson County Railway.

The 1988 and 1990 Sanborn maps identified selected Lots including 1-6, 16-18 as undeveloped, while the structures on Lots 12, 13, 14, 15 have been removed/demolished. The remainder of the Site is similar to the 1979 Sanborn map. This configuration remains today, with the majority of the Site utilized as an asphalt covered parking lot (***Figure 3***).

1.3 Topography

The Site presently contains an asphalt covered parking area, and an undeveloped vegetated Lot. The Site is relatively flat with a ground surface elevation of approximately 13 feet above mean sea level (MSL), and realizes a slight slope to the southeast.

The undeveloped Lot (12) contains vegetation, and may realize a slightly higher elevation due to mounded soils.

1.4 Geology

The Site is underlain by the Triassic Period Stockton Formation (Trs), which is described as light-gray, light-grayishbrown, yellowish- to pinkish-gray, or violet-gray to reddish-brown, medium- to coarse-grained arkosic sandstone and reddish- to purplish-brown mudstone, silty mudstone, argillaceous siltstone, and shale. Mudstone, siltstone and shale beds thicker and more numerous in central Newark basin west of Round Valley Reservoir. Sandstones mostly planar-bedded, with scoured bases containing pebble lags and mudstone rip-ups. Unit is coarser near Newark basin border fault, where poorly exposed, reddish-brown to pinkish-white, medium- to coarse-grained, feldspathic pebbly sandstone and conglomerate (Trss) and pebble to cobble quartzite conglomerate (Trscq). Maximum thickness of formation about 1,240 m (4,070 ft).

1.5 Site Soils

The Site is identified on the *Historic Fill of the Jersey City Quadrangle, Historic Fill Map HFM-53*, 2004, as containing historic fill (***Figure 4***).

The Site soils were investigated as part of the Site Investigation (SI) operations, and reported in the *Site Investigation Report* (SIR) dated August 2012, and completed by Boswell McClave Engineering (***Appendix C***). The SI operations included the advancement of seven soil borings to depths of approximately 10 feet below surface grade (bsg). The soil boring logs included as part of the SIR, and ***Appendix D*** of this document, visually identify historic fill composition throughout the investigated interval. Selected soil samples collected from the historic fill materials were analyzed by a New Jersey certified laboratory for Target Compound List/Target Analyte List (TCL/TAL) parameters, for which the laboratory results were consistent with a historic fill profile.

1.6 Hydrogeology

Ground water occurs in the shallow estuarine deposits, unconsolidated glacial sediments, and in the deeper bedrock.

The recent sedimentary deposits may function as either a recharge area for the underlying bedrock, or serve as a cap retarding the downward migration of contaminants. Shallow groundwater, may be perched and under unconfined, water table conditions.

In the urban, industrialized areas of northeastern New Jersey, groundwater may be used for general industrial manufacturing and processing, air conditioning and for sanitary purposes. Its use as a source of potable water has diminished significantly due to over pumping and contamination from industrial sources, as well as salt-water intrusion near the coast.

Hydrogeologic conditions underlying the Site are not required to be investigated as part of the proposed environmental activities.

1.7 Surface Water & Wetlands

There are no surface water bodies positioned on, or immediately proximal to, the Site.
The closest perennial surface water body is positioned approximately 500 feet to the south/southwest, and is classified as a pond per the NJDEP GIS system. No outlet is identified as servicing the water body.

The closest permanent surface water body is positioned approximately 1,800 feet to the south/southeast, and is a former dock/pier area which was connected to the Hudson River.

No wetlands are positioned on, or immediately proximal to the Site.

Surface water (e.g. rain) both on, and immediately proximal to, the Site is managed via the municipal storm water system.

1.8 Environmentally Sensitive Natural Resources

Based on information presented in the NJDEP GeoWeb database, and known Site conditions, environmentally sensitive natural resources (other than groundwater) as defined in NJAC 7:26E are not present on or immediately adjacent to the Site.

2.0 SUMMARY OF ENVIRONMENTAL INVESTIGATIONS

The following sections provide brief summaries of the previously completed environmental investigations associated with the Site.

2.1 LSRP Retention

Hoboken initiated environmental investigation of the Site in late 2011/early 2012 via the completion of both a *Preliminary Assessment Report* (PAR), and a *Site Investigation Report* (SIR) to satisfy the NJDEP Green Acres Program investigation requirements.

Consistent with the requirements set forth via NJDEP regulations, these two environmental documents were completed with oversight provided by a Licensed Site Remediation Professional (LSRP), Stephen T. Boswell (LSRP license #594091), of Boswell McClave Engineering. ***Appendix E*** provides the SRP Case Oversight Report from the NJDEP website.

2.2 Preliminary Assessment Report (PAR) – January 2012

The PAR was completed (***Appendix A***) consistent with the N.J.A.C. 7:26E-1.8, and identified three distinct Areas of Concern (AOC), as follows:

- AOC-1 Historic Fill
- AOC-2 Potential UST's
- AOC-3 Off Site Former UST Releases

Both AOC-1 & AOC-2 were both recommended for supplemental investigation operations, as detailed in the Case Inventory Document (CID) included as ***Appendix F*** to this document, while AOC-3 was not recommended for additional investigation operations.

2.3 Site Investigation Report (SIR) – August 2012

A Site Investigation Report (SIR) was completed (***Appendix C***) consistent with the N.J.A.C. 7:26E-3.3, to investigate the three distinct AOC's:

- AOC-1 Historic Fill
- AOC-2 Potential UST's
- AOC-3 Off Site Former UST Releases

2.3.1 AOC-1 Historic Fill

A total of seven soil borings were advanced throughout the subject Site to investigate the Historic Fill AOC. At each soil boring location field screening of the soil was completed consistent with the NJDEP *Field Sampling Procedures Manual*, May 2005, including utilization of a photoionization detector for volatile organic constituents, and visual observation of the soil character.

Most borings were advanced to a total depth of 10 feet bsg, and historic fill was identified in all of the borings (e.g. brick, concrete, coal, ash, wood, glass). No volatile organic readings were identified above background concentrations at any of the boring locations. Appendix F of the SIR contains soil boring descriptions of the sub surface conditions.

Four soil samples were collected to investigate the character of the historic fill material, and analyzed for selected laboratory parameters by a New Jersey certified laboratory:

- Soil sample SB-1 – Polycyclic aromatic hydrocarbons (PAH), TAL metals
- Soil sample SB-3 – PAH, TAL metals
- Soil sample SB-6 – PAH, TAL metals
- Soil sample SB-7 – full TCL/TAL

The laboratory analytical results from the four soil samples were consistent with typical historic fill character and included PAH's and metals at concentrations above the NJDEP Impact to Groundwater Soil Screening Limits (IGWSSL), and the NJDEP Residential Direct Contact Soil Remediation Standards (RDCSRS) for selected constituents (e.g. arsenic, lead). No volatile organic constituents were identified above the IGWSSL or RDCSRS.

One groundwater sample was collected from a Temporary Groundwater Sample Point (TGWSP) installed within soil boring SB-1. The single groundwater sample was analyzed for full TCL/TAL parameters by a New Jersey certified laboratory. Semi volatile organic compounds (including PAH's), and metals were identified above the NJDEP Groundwater Quality Criteria (GWQC), consistent with the character of historic fill. No volatile organics, or PCB constituents, were identified in the groundwater sample.

2.3.2 AOC-2 Potential UST's

To address the possibility of former underground storage tanks (UST) being positioned on the subject Site, a geophysical survey was performed, and included as Appendix G of the SIR.

The geophysical survey was completed by Infrared Services Inc., Montville, New Jersey in May 2012. At that time no indications of UST's were identified in the surveyed area. It should be noted that penetration depths at the time of the survey were estimated to range from 1-3 feet bsg.

2.3.3 AOC-3 Off-Site Former UST Releases

While the PAR did not suggest supplemental investigation for AOC-3 -Off Site Former UST Releases to impact the Site, a single groundwater sample was collected during the SI as a screening tool.

The single groundwater sample was collected from a TGWSP installed within soil boring SB-1, and was analyzed for full TCL/TAL parameters by a New Jersey certified laboratory. Semi volatile organic compounds (including PAH's), and metals were identified above the NJDEP Groundwater Quality Criteria (GWQC), consistent with the character of historic fill. No volatile organics, or PCB constituents, were identified in the groundwater sample. This result was suggestive that no groundwater impacts from former UST were realized.

In addition, recent assessment (circa December 2014) of the NJDEP Geoweb web site does not identify any designated Classification Exception Areas (CEA) in the southwestern portion of Hoboken which may impact the subject Site.

2.3.4 SIR Conclusions and Recommendations

2.3.4.1 AOC-1 Historic Fill

The Site is positioned within the *Historic Fill of the Jersey City Quadrangle, Historic Fill Map HFM-53*, 2004, and based on the SI operations has confirmed historic fill materials which typically range from near surface, to approximately 9.5 feet bsg, and

underlie the entire Site. Both the shallow soils and groundwater contain constituents above the SRS that are typical and consistent with historic fill character.

The remedial strategy applicable for the identified historic fill conditions includes the implementation of engineering (e.g. cap) and institutional (e.g. deed notice, classification exception area) controls, and is consistent with the NJDEP *Historic Fill Material Technical Guidance*, Version 2.0, April 29, 2013.

2.3.4.2 AOC-2 Potential UST's

The SI operations did not find any geophysical and/or visual indications of UST's within the surveyed area. Given this condition, no further operations are recommended for this ACO.

2.3.4.3 AOC-3 Off-Site Former UST Releases

The SI operations did not find any admininstrative/research or groundwater quality data suggesting that any Off Site Former UST Releases have affected the subject properties. Given this condition, no further operations are recommended for this ACO.

Given the recognition of the aforementioned AOC's, and in consideration of the applicable NJDEP guidance documents, no additional investigation or delineation is required. Therefore neither a Remedial Investigation (RI), nor a Remedial Investigation Report (RIR), will be completed for this project.

3.0 PROPOSED REMEDIAL ACTIONS

The applicable NJDEP administrative requirements, remediation standards, site preparation activities, and proposed remedial activities for the historic fill AOC are discussed in the following sections.

3.1 NJDEP Admininstrative Conditions

3.1.1 Previous Environmental Submissions

The following documents and/or forms were previously submitted to the NJDEP on behalf of the responsible party, City of Hoboken.

- Confirmed Discharge Notification Form – 6/11/2012;
- Preliminary Assessment/Site Investigation Form – 8/7/2012;
- LSRP Retention – Stephen T. Boswell (LSRP license #594091), of Boswell McClave Engineering, was retained on 12/4/2013 (via on line portal);
- Exemption from Spill Act Liability Form – 3/14/2014;

Copies of the Confirmed Discharge Notification Form, Preliminary Assessment/Site Investigation Form, and the Exemption from Spill Act Liability are included in ***Appendix G.*** The LSRP Retention Form was completed via an online portal which is documented in ***Appendix E***.

3.1.2 LSRP Status

Changes in project contracts were cause for a change in LSRP's retained for the subject Site. Stephen T. Boswell (LSRP license #594091), of Boswell McClave Engineering, who was originally retained on 12/4/2013, dismissed himself on **XXX**.

Eric Meyer (LSRP license #594091), of Langan Engineering & Environmental Services, was retained for the project on **XXX**. A copy of

the LSRP retention confirmation via the NJDEP online portal is included in ***Appendix H.***

3.2 Applicable Remediation Standards

The remediation standards applicable to soil and fill materials on the Site include the New Jersey Soil Remediation Standards (SRS), New Jersey Default Impact to Groundwater Soil Screening Levels (IGWSSL), Groundwater Quality Criteria (GWQC). A list of applicable remediation standards by compound is provided in ***Appendix I.***

3.3 Remedial Action Strategy

Environmental remedial actions are required for only one AOC (Historic Fill) which contains constituent exceedances of the applicable NJDEP media specific standards.

The remedial action strategy that will be applied to this Site will include the implementation of engineering (e.g. cap) and institutional (e.g. deed notice, classification exception area) controls. The implementation of this strategy, including the installation of engineering control mechanisms, and will be integrated into the construction considerations for a new neighborhood park. Consistent with the management of historic fill, the NJDEP will also implement a site wide CEA for the shallow aquifer underlying the Site.

3.4 Site Preparation Measures

Although not considered environmental remediation measures, the following activities will be completed to prepare the Site for the remedial actions described in this RAWP.

3.4.1 Health and Safety

All personnel performing onsite activities that may result in their being exposed to Site contaminants shall perform such activities pursuant to a Site-Specific Health and Safety Plan (HASP) prepared by their employer. Each employer will be provided with copies of the *Preliminary Assessment Report* (PAR) dated January 2012, and the *Site Investigation Report* (SIR) dated August 2012. All HASPs shall be prepared in accordance with the applicable portions of 29 CFR 1910 – *Occupational Safety and Health Standards* and 29 CFR 1926 - *Safety and Health Regulations for Construction.*

3.4.2 Soil Erosion and Sediment Control Measures

Soil erosion and sediment control measures will be established in accordance with a Soil Erosion and Sediment Control Plan approved by the Hudson Essex Passaic Soil Conservation District. The required measures include, but are not limited to: site fence; straw bales; vehicle tracking pads; dust control; and seeding and stabilization measures.

3.4.3 Site Clearing

Coincident with the initiation of Site redevelopment, the existing surficial materials will be removed as needed.

The existing asphalt materials will be removed, and managed off-site at an appropriately designated facility (e.g. recycling, disposal).

Similarly, any incidental debris will be characterized, and managed off-site at an appropriately designated facility (e.g. recycling, disposal).

Appropriate documentation of the material management will be provided in the next environmental report submission, expected to be the Remedial Action Report (RAR).

3.5 Remedial Action Mechanisms

3.5.1 Engineering Control

The engineering control will include the construction of permanent surficial improvements installed as part of a proposed public park installation, and will serve as a permeable engineered cap.

The permanent surficial improvements will include engineered surfaces of concrete, asphalt, low impact play areas (aka unitary material surface), and landscaped installations. Each of the improvements will be designed to service the specific park functions, and also act as a barrier to prevent direct contact with the underlying historic fill material.

The park design, including each of the engineered surficial improvements, will be consistent with intent of the following NJDEP regulations and guidance documents:

- *Historic Fill Material Technical Guidance*, Version 2.0, April 29, 2013;
- *Technical Guidance on the Capping of Sites Undergoing Remediation*, Version 1.0, 7/14/2014;
- N.J.A.C. 7:26E-5.4;
- N.J.A.C. 7:26C-7.1

Appendix J contains the proposed construction figures including a generalized Site plan, and specific cross sections containing details regarding each of the permanent engineered surficial improvements.

The selected permanent surficial improvements will be constructed as follows:

- **Concrete**
  - Barrier layer = Concrete surface – 4-6 inches thick

- Buffer layer = Dense graded aggregate bedding material – 4-6 inches thick
- Compacted existing fill material

- **Asphalt**
  - Barrier layer = Asphalt pavement – 4-6 inches thick
  - Buffer layer = Dense graded aggregate bedding material – 4-6 inches thick
  - Compacted existing fill material

- **Low impact play areas (aka unitary material surface)**
  - Barrier layer = Low impact pay area material – 1-3 inches thick
  - Buffer layer = Dense graded aggregate bedding material – 4-6 inches thick
  - Separation/demarcation layer (aka visible contamination boundary marker) = a visible barrier (such as snow fence, geotextile, distinctly colored soil) that is intended to provide a clear separation between the cap and the underlying impacted material
  - Compacted existing fill material

- **Landscaped installations**
  - Barrier layer = Vegetated topsoil - topsoil 6 inches thick
  - Buffer layer = Clean soil layer - porous material (e.g. soil or sand) – 12-18 inches thick
  - Separation/demarcation layer (aka visible contamination boundary marker) = a visible barrier (such as snow fence, geotextile, distinctly colored soil) that is intended to provide a clear separation between the cap and the underlying impacted material.
  - Compacted existing fill material

3.5.1.1 Clean Fill Utilization

Fill materials may be imported onto the Site to facilitate the park construction operations. These materials may include sand, clean stone, dense graded aggregate and/or other construction materials. Said materials will be recognized as "clean fill" consistent with the requirements set forth in the *Alternative and Clean Fill Guidance for SRP Sites*, Version 2.0, December 29, 2011; and N.J.A.C. 7:26E-1.8. Appropriate documentation of the imported material will be provided in the next environmental report submission, expected to be the Remedial Action Report (RAR).

3.5.2 Institutional Controls

3.5.2.1 Deed Notice

A deed notice be will utilized as one of the institutional control mechanisms, and will be formatted consistent with the model document in N.J.A.C. 7:26C Appendix B.

The deed notice will identify that historic fill material underlies the entire Site, and is positioned under the engineering control installation to a depth of approximately 9.5 feet bsg. Additionally the deed notice will document the environmental soil conditions on the Site, and the engineering controls implemented to protect the environment and human health.

Appendix K contains a draft deed notice.

A final deed notice, representing the final remedial action conditions completed on the Site, will be appropriately recorded with the County government.

3.5.2.2 Classification Exception Area

Consistent with N.J.A.C. 7:26E-5.4(b), a Classification Exception Area (CEA) will be utilized as one of the institutional control mechanisms, specifically for groundwater. The extent of the CEA will be based on the Site boundaries, and will represent the shallow aquifer, while the duration of the CEA will be identified as indeterminate because the historic fill material will remain in place, under the engineering control.

Given that the source of the groundwater impacts has been defined as the historic fill, the CEA application will include limited appropriate documentation identifying the Site, and the associated conditions; however delineation and/or associated technical submissions in this regard are not required per N.J.A.C. 7:26E-5.4(b). Similarly, a Remedial Action permit – Groundwater, is not required for this application.

Appendix L contains CEA application documentation.

3.5.2.3 Remedial Action Permit - Soil

Consistent with N.J.A.C. 7:26C-7.5, a Remedial Action Permit – Soil (RAPS) is required because engineering (e.g. cap) and institutional (e.g. deed notice) will be implemented at the Site.

The RAPS permit application will be completed consistent with the NJDEP *Remedial Action Permits For Soils Guidance* dated February 24, 2010, and will be submitted to the NJDEP for review and approval, coincident with the recorded deed notice, and Remedial Action Report (RAR).

After NJDEP approval of the RAPS, the entire suite of admininstrative required reports and documents (e.g. RAR, Deed

Notice, RAPS, Case Inventory Document [CID], NJDEP forms) will be submitted to the NJDEP, including the Response Action Outcome (RAO). At that time appropriate NJDEP fees will accompany the reports.

Appendix L contains a draft RAPS application.

4.0 QUALITY ASSURANCE PROJECT PLAN

A Quality Assurance Project Plan (QAPP) for all fill/soil sampling anticipated during the remedial activities is provided in ***Appendix B***. The QAPP was prepared in accordance with NJAC 7:26E-2.2. The plan describes the procedures that will be implemented to ensure that the data collected during the project is valid and useable for the purpose of documenting completion of the remedial actions.

5.0 PERIMETER AIR MONITORING PLAN

A Perimeter Air Monitoring Plan (PAMP) is required during a remedial action, if applicable, to monitor and control off-site excursion of dust, vapor and odors. In consideration of this requirement, and based on the proposed construction details, it is anticipated that the redevelopment of the Site into a park will be completed in small operational areas, and result in no fugitive dust being created which to cause off-site excursions. This condition suggests that no PAMP will be required for the defined operations.

In support of this conclusion, active real-time personal air monitoring will be completed during the initiation of the project as part of the HASP during Site activities involving disturbance of contaminated materials, clearing, excavation, and Site grading. The monitoring will include assessment for volatile organic constituents via a photoionization detector (PID), and dust monitoring via a Should this real-time personal air monitoring reveal fugitive dust at levels above the applicable criteria established in the HASP, applicable engineering controls (e.g. water truck, modification of excavation methods)

will be applied to eliminate the generation of fugitive dust, and continued monitoring will be completed to confirm Site conditions.

6.0 FILL USE PLAN

A Fill Use Plan for the project, prepared in accordance with the NJDEP *Alternative and Clean Fill Guidance* (Ver. 2.0, December 2011), is provided in ***Appendix D***. The Fill Use Plan will apply to alternative and clean fill materials that will be imported to the Site to complete the remedial actions described in this RAWP.

7.0 SITE RESTORATION PLAN

The entire Site will be redeveloped into a municipal park, and include permanent surficial improvements as described in this RAWP.

Said improvements will service as the engineering control and will be installed site wide to service the specific park functions, and also act as a barrier to prevent direct contact with the underlying historic fill material.

No wells were previously located on-site, nor will any wells be required for the implementation of the RAWP, and/or future groundwater monitoring based on the identified Site conditions.

8.0 POST-REMEDIATION MONITORING PLAN

Following implementation of this RAWP, the effectiveness of the historic fill remedial actions will be monitored as follows:

- Site inspections including visual observations of the permanent surficial improvements servicing as the engineering control will be performed twice annually during the first two years after completion of the remediation, and annually thereafter. The observations will focus on identifying any stressed

vegetation, erosion, and/or settling that could potentially compromise the integrity of the cap. Areas of deterioration will be noted on a Site plan for subsequent repair. All visual observation events will be documented in written Site observation reports.

- Remedial Action Protectiveness/Biennial Certifications for the soil remedial actions (engineering and institutional controls) will be prepared and submitted to the NJDEP as required by N.J.A.C. 7:26C, on a biennial basis starting two years after the date the Remedial Action Permit – Soil is approved by the NJDEP.

Monitoring Schedule	Situation	Duration
Semi Annual	Site inspection of the engineering control elements	Starting 6 months after the date the Remedial Action Permit – Soil is approved by the NJDEP, and having a duration of 2 years
Annual	Site inspection of the engineering control elements	Starting 2 years after the date the Remedial Action Permit – Soil is approved by the NJDEP, and having a indeterminate duration

Reporting Schedule	Situation	Duration
Biennial	Submission of a Remedial Action Protectiveness/Biennial Certification to the NJDEP	Starting 2 years after the date the Remedial Action Permit – Soil is approved by the NJDEP, and having an indeterminate duration

9.0 REQUIRED PERMITS

The following local, State, and Federal permits will be required for the project:

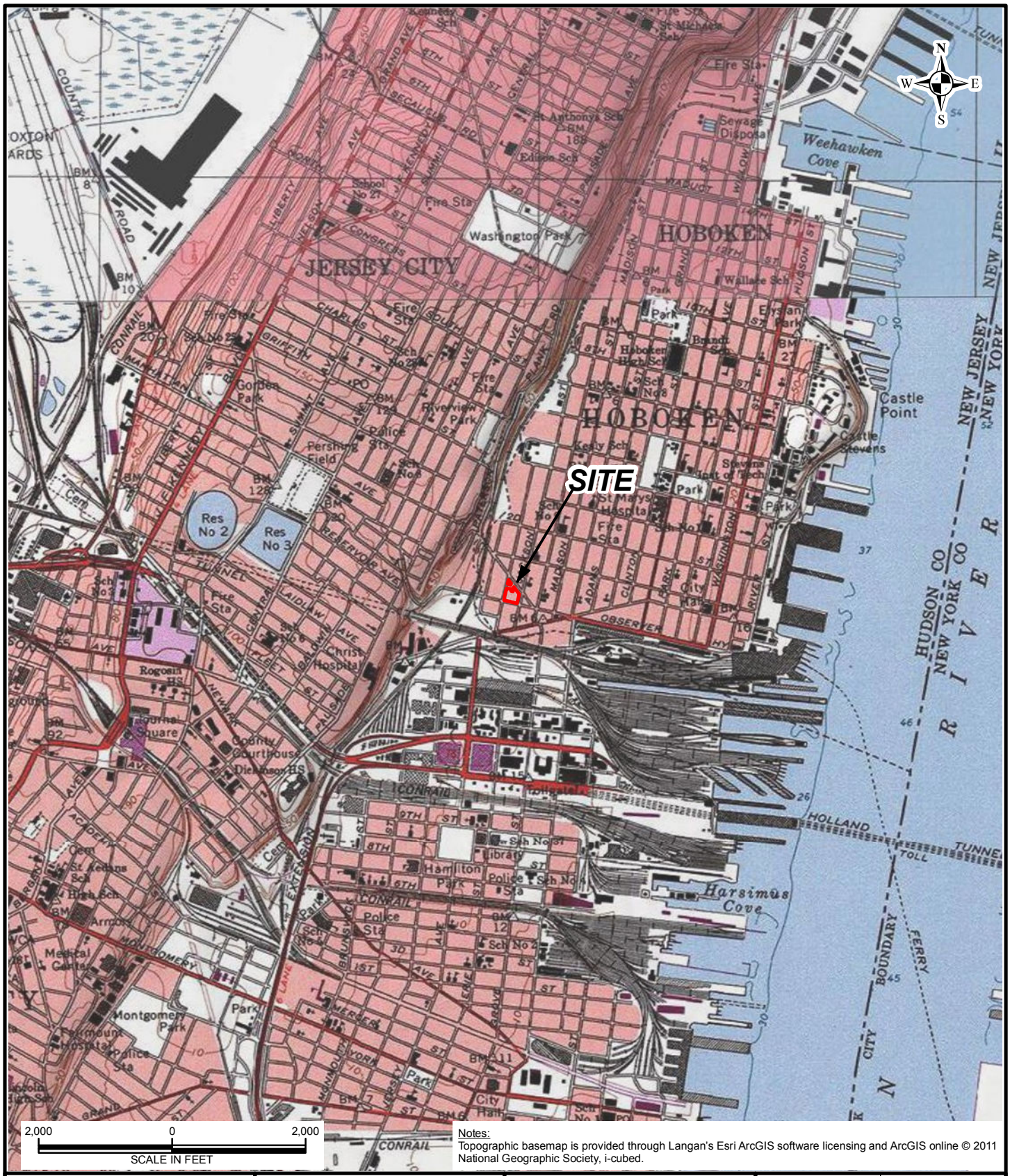
- Hudson Essex Passaic Soil Conservation District. Soil Erosion and Sediment Control Plan Certification;
- NJDEP Soil Remedial Action Permit

The applicable permits will be obtained prior to the start of each permit-required activity described in this RAWP. Copies of the approved permit will be retained at the Site, and will be provided in the next environmental report submission, expected to be the Remedial Action Report (RAR).

10.0 SCHEDULE

The fill/soil remedial activities outlined in this RAWP are scheduled to begin in July 2014. It is anticipated that the remedial activities will be completed within 6 months after the start of work (i.e., December 2014) and an AOC-specific RAO for fill/soil AOCs issued approximately 3 months later.

Appendix L contains a draft project schedule. It should be recognized that the schedule is subject to change, and should same be realized that will affect the end date of the project, a revised schedule will be made available.



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SCALE IN FEET

Notes:
Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online © 2011 National Geographic Society, i-cubed.

LANGAN

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Langan International LLC
Collectively known as Langan

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

SW PARK

BLOCK No. 12, LOT No. 1-7, 9, 12-18
NJDEP SRP PI# 585028
HOBOKEN

HUDSON COUNTY NEW JERSEY

Drawing Title

USGS SITE LOCATION MAP

Project No. 100497601	Figure 1
Date 11/20/2014	
Scale 1"=2,000'	
Drawn By ATR	
Last Revised 12/4/2014	

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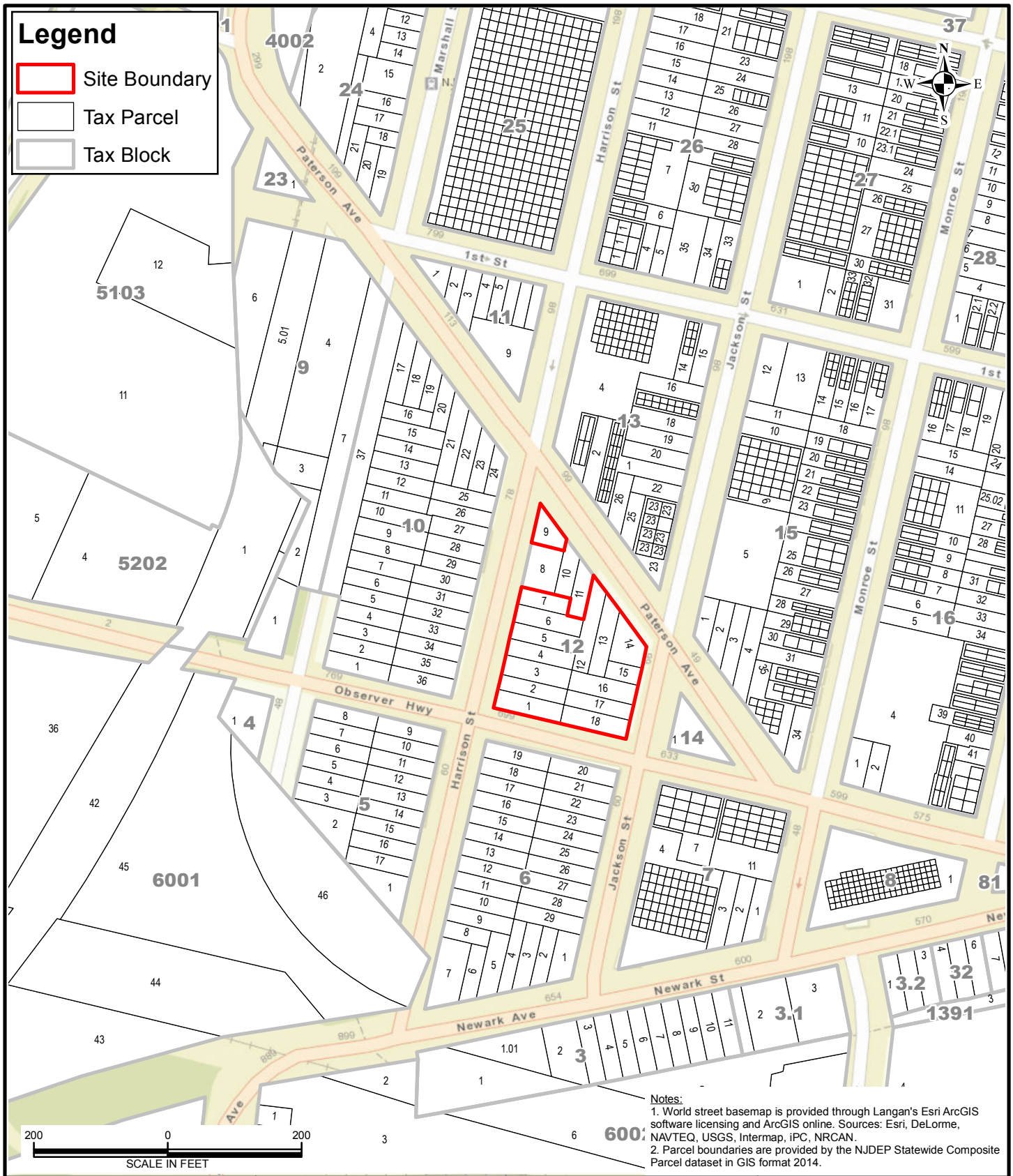
Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\SW Park Env\Figure 1 - Site Location Map.mxd Date: 12/4/2014 User: aruane Time: 1:12:45 PM



Notes:
1. World street basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN.
2. Parcel boundaries are provided by the NJDEP Statewide Composite Parcel dataset in GIS format 2014.

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Project	Drawing Title	Project No.	Figure
SW PARK BLOCK No. 12, LOT No. 1-7, 9, 12-18 NJDEP SRP PI# 585028 HOBOKEN HUDSON COUNTY NEW JERSEY	MUNICIPAL TAX MAP	100497601	2
		Date: 11/20/2014	
		Scale: 1"=200'	
		Drawn By: ATR	
		Last Revised: 12/4/2014	

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Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\SW Park Env\Figure 2 - Municipal Tax Map.mxd Date: 12/4/2014 User: aruane Time: 1:12:58 PM

Notes:
1. World aerial imagery basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS. Source of imagery is Microsoft from 2011.
2. Parcel boundaries are provided by the NJDEP Statewide Composite Parcel dataset in GIS format 2014.

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Project
SW PARK
BLOCK No. 12, LOT No. 1-7, 9, 12-18
NJDEP SRP PI# 585028
HOBOKEN
HUDSON COUNTY NEW JERSEY

Drawing Title
AERIAL MAP

Project No.	100497601
Date	11/20/2014
Scale	1"=50'
Drawn By	ATR
Last Revised	12/4/2014
Figure	3

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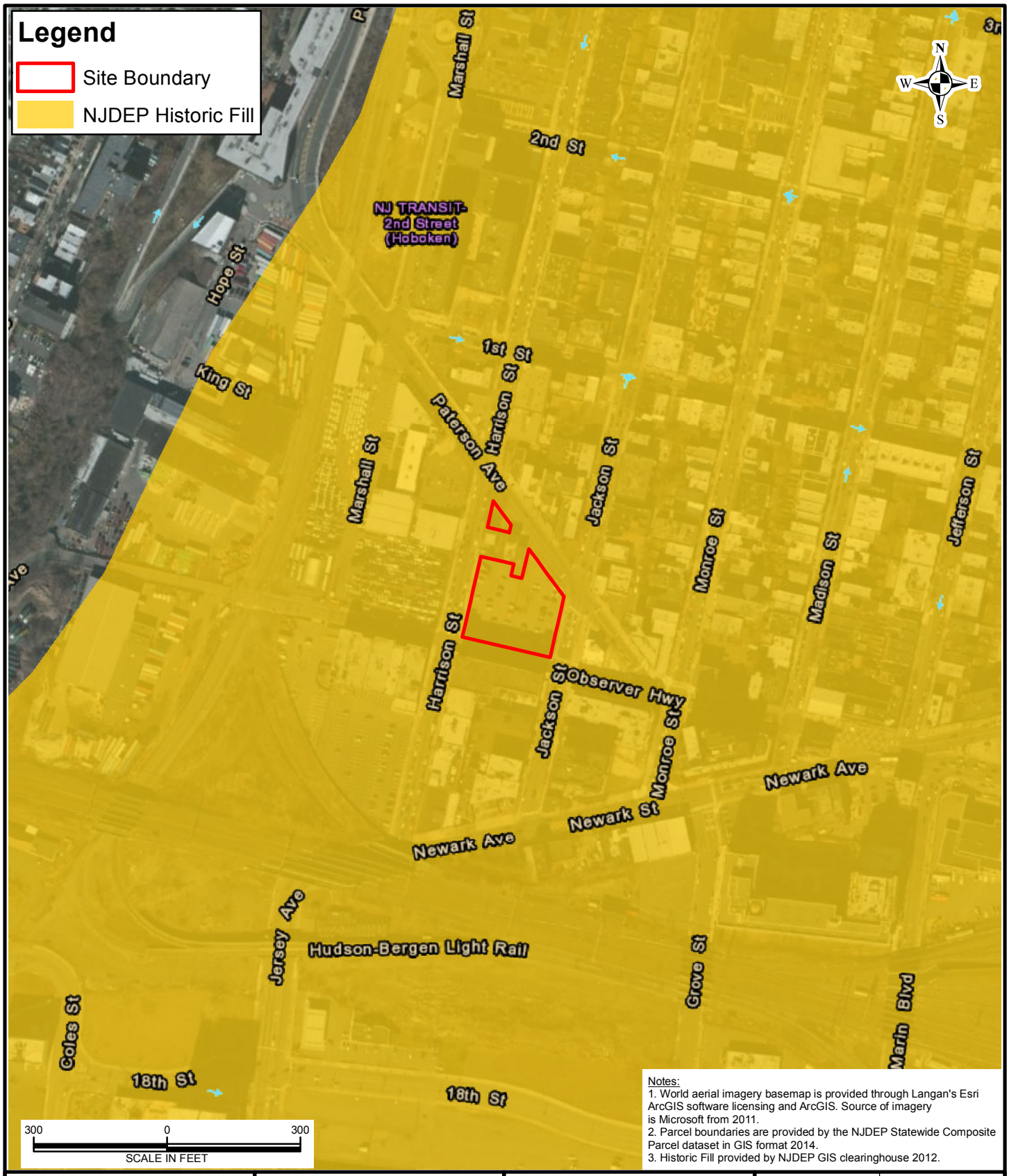

Notes:
1. World aerial imagery basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS. Source of imagery is Microsoft from 2011.
2. Parcel boundaries are provided by the NJDEP Statewide Composite Parcel dataset in GIS format 2014.
3. Historic Fill provided by NJDEP GIS clearinghouse 2012.

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Project	Drawing Title	Project No.	Figure
SW PARK BLOCK No. 12, LOT No. 1-7, 9, 12-18 NJDEP SRP PI# 585028 HOBOKEN HUDSON COUNTY NEW JERSEY	HISTORIC FILL MAP	100497601	4
		Date 11/20/2014	
		Scale 1"=300'	
		Drawn By ATR	
		Last Revised 12/4/2014	

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Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\SW Park Env\Figure 4 - Historic Fill Map.mxd Date: 12/4/2014 User: aruane Time: 1:06:03 PM

APPENDIX A

Preliminary Assessment Report (PAR), January 2012, Boswell McClave Engineering

FirstSearch Technology Corporation

Environmental FirstSearch™ Report

Target Property:
HOBOKEN NJ 07030 Job Number: 91911

PREPARED FOR:

Boswell Engineering

09-19-11

Tel: (781) 551-0470 *Fax: (781) 551-0471*

Environmental FirstSearch is a registered trademark of FirstSearch Technology Corporation. All rights reserved.

Environmental FirstSearch
Search Summary Report

Target Site:

HOBOKEN NJ 07030

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	08-15-11	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	08-15-11	0.50	0	0	0	0	-	0	0
CERCLIS	Y	07-26-11	0.50	0	0	1	1	-	0	2
NFRAP	Y	07-26-11	0.50	0	1	1	0	-	0	2
RCRA COR ACT	Y	07-11-11	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	07-11-11	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	07-11-11	0.25	0	6	4	-	-	4	14
Federal Brownfield	Y	07-05-11	0.50	0	0	2	0	-	0	2
ERNS	Y	07-18-11	0.12	0	0	-	-	-	4	4
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	3	3
State/Tribal Sites	Y	06-03-11	1.00	0	15	45	130	434	13	637
State Spills 90	Y	06-03-11	0.12	0	37	-	-	-	28	65
State/Tribal SWL	Y	01-06-10	0.50	0	0	1	1	-	1	3
State/Tribal LUST	Y	06-03-11	0.50	0	13	32	138	-	18	201
State/Tribal UST/AST	Y	06-03-11	0.25	0	6	14	-	-	1	21
State/Tribal EC	Y	04-04-07	0.50	0	2	3	4	-	0	9
State/Tribal IC	Y	NA	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	07-15-10	0.50	0	6	16	46	-	3	71
State/Tribal Brownfields	Y	01-01-06	0.50	0	0	0	1	-	0	1
FI Map Coverage	Y	04-27-11	0.12	1	3	1	-	-	0	5
Federal IC/EC	Y	08-01-11	0.50	0	0	0	0	-	0	0
- TOTALS -				1	89	120	321	434	75	1040

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

Environmental FirstSearch
Site Information Report

Request Date:	09-19-11	**Search Type:**	COORD
Requestor Name:	ccolabaugh/boswelleng/bc	**Job Number:**	91911
Standard:	AAI	**Filtered Report**	

Target Site:

HOBOKEN NJ 07030

Demographics

Sites: 1040 **Non-Geocoded:** 75 **Population:** NA

Radon: 3% OF HOMES TESTED HIGHER THAN 4 PCI/L

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	-74.042023	-74:2:31	**Easting:**	580888.4
Latitude:	40.737875	40:44:16	**Northing:**	4509889.255
Elevation:	10		**Zone:**	18

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

ZIP Code	City Name	ST	Dist/Dir	Sel
07307	JERSEY CITY	NJ	0.10 NW	Y
07310	JERSEY CITY	NJ	0.10 SE	Y
07087	UNION CITY	NJ	0.91 NE	N
07302	JERSEY CITY	NJ	0.56 SE	N
07306	JERSEY CITY	NJ	0.29 SW	N

Services:

	Requested?	Date
Fire Insurance Maps	Yes	09/19/11
Aerial Photographs	No	
Historical Topos	No	
City Directories	Yes	09-19-11
Title Search/Env Liens	Yes	09-19-11
Municipal Reports	No	
Online Topos	No	

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	FIMAP	FIRE INSURANCE MAP POLY-19274/SANBORN	HOBOKEN NJ 07030	0.00 --	N/A	1
2	SPILLS	M and F DIESEL SERVICE 92-3-1-1405-56/SLOPPY HOUSEKEEPING	56 HARRISON ST HOBOKEN NJ 07030	0.03 SW	0	3
7	FIMAP	FIRE INSURANCE MAP POLY-19270/SANBORN	JERSEY CITY NJ 07307	0.04 NW	N/A	4
5	SPILLS	ROADWAY 90-08-24-0931/SPILL,MVA	99 PATERSON AVE HOBOKEN NJ 07030	0.04 NW	0	6
5	SPILLS	IN FRONT OF 93-5-21-1235-41/MVA,SPILL	99 PATERSON AVE HOBOKEN NJ 07030	0.04 NW	0	8
3	LUST	DINER 08-01-29-1729-28/TERMINATED	61 JACKSON ST HOBOKEN CITY NJ 07020	0.04 SE	0	9
6	SPILLS	IN ROADWAY 90-04-27-1644/SPILL	JACKSON ST and OBSERVER HWY HOBOKEN NJ 07030	0.04 SE	+ 1	11
3	STATE	61 JACKSON STREET 461126/CLOSED	61 JACKSON ST HOBOKEN CITY NJ	0.04 SE	0	12
4	STATE	OBSERVER HIGHWAY REDEVELOPMENT NJL000031880/KCSNJ	OBSERVER HWY HOBOKEN NJ 07030	0.04 SE	0	12
4	STATE	OBSERVER HIGHWAY REDEVELOPMENT G000008902/ACTIVE	OBSERVER HWY HOBOKEN CITY NJ	0.04 SE	0	13
8	FIMAP	FIRE INSURANCE MAP POLY-19282/SANBORN	JERSEY CITY NJ 07310	0.04 SW	N/A	13
9	SPILLS	IN THE AREA OF 97-1-23-1409-23/ODORS	76 JACKSON ST HOBOKEN NJ 07030	0.05 NE	+ 1	15
11	FIMAP	FIRE INSURANCE MAP POLY-19269/SANBORN	JERSEY CITY NJ 07306	0.05 SW	N/A	16
10	SPILLS	OPEN LOT ACROSS FROM 90-02-15-1318/ILLEGAL DUMPING	49 HARRISON ST HOBOKEN NJ 07030	0.05 SW	0	18
10	SPILLS	REAR OF 98-5-27-1720-06/TRAIN DERAILMENT	49 HARRISON ST HOBOKEN NJ 07030	0.05 SW	0	20
10	SPILLS	REAR OF 98-05-27-1720-06/TRAIN DERAILMENT	49 HARRISON ST HOBOKEN NJ 07030	0.05 SW	0	21
12	LUST	ALBEE SERVICES INC 92-6-19-1045-05/LUST, SOIL CONTAMI	38 JACKSON ST HOBOKEN NJ 07030	0.06 SE	+ 1	23
12	RCRAGN	CHAMBORD PRINTS, INC. NJD980582878/LGN	38 JACKSON ST HOBOKEN NJ 07030	0.06 SE	+ 1	25
12	SPILLS	ALBEE SERVICES INC 96-4-11-1004-30/MOA	38 JACKSON ST HOBOKEN NJ 07030	0.06 SE	+ 1	28
12	SPILLS	CHAMBORD PRINTS 92-4-28-0929-04/SMOKE	38 JACKSON ST HOBOKEN NJ 07030	0.06 SE	+ 1	31
12	SPILLS	CHAMBORD PRINTS 92-2-4-0905-41/SMOKE/DUST	38 JACKSON ST HOBOKEN NJ 07030	0.06 SE	+ 1	33

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
12	SPILLS	SHAMBORG PAPER 92-7-16-1426-15/ODORS	38 JACKSON ST HOBOKEN NJ 07030	0.06 SE	+ 1	35
12	SPILLS	ALBEE SERVICES INC 92-6-19-1045-05/LUST, SOIL CONTAMI	38 JACKSON ST HOBOKEN NJ 07030	0.06 SE	+ 1	37
12	STATE	ALBEE SERVICES INCORPORATED NJL000048363/KCSNJ	38 JACKSON ST HOBOKEN NJ 07030	0.06 SE	+ 1	38
12	STATE	ALBEE SERVICES INCORPORATED 025935/ACTIVE	38 JACKSON ST HOBOKEN CITY NJ 07030	0.06 SE	+ 1	39
12	UST	ALBEE SERVICES INCORPORATED 0259356/INACTIVE	38 JACKSON ST HOBOKEN NJ 07030	0.06 SE	+ 1	40
12	VCP	ALBEE SERVICES INC 96-04-11-1004-30/VCP	38 JACKSON ST HOBOKEN NJ 07030	0.06 SE	+ 1	41
16	ENGCONTROL	MILE SQUARE MACHINERY INC. DNA-428/DEED NOTICE EXTENT	659 ST HOBOKEN CITY NJ	0.08 NE	N/A	42
14	LUST	RESIDENCE 10-08-04-1215-55/TERMINATED	91 JACKSON ST HOBOKEN NJ 07030	0.08 NE	+ 3	43
14	SPILLS	RESIDENCE 10-08-04-1215-55/TERMINATED	91 JACKSON ST HOBOKEN NJ 07030	0.08 NE	+ 3	44
13	STATE	89-91 JACKSON STREET 554033/ACTIVE	89 JACKSON ST HOBOKEN NJ 07030	0.08 NE	+ 2	45
15	SPILLS	VACANT LOT 02-10-18-1139-18/TERMINATED	16 JACKSON ST HOBOKEN CITY NJ 07030	0.08 SE	+ 1	46
18	LUST	MIDWAY INC CORP 98-5-7-1028-38/L.U.S.T.	659 1ST ST HOBOKEN NJ 07030	0.09 NE	+ 1	48
18	LUST	MIDWAY INCORPORATED LU-98-05-07-1028-	659 1ST ST HOBOKEN NJ 07030	0.09 NE	+ 1	49
17	NFRAP	MIDWAY INK CORP. NJD001346055/NFRAP-N	655 1ST ST HOBOKEN NJ 07030	0.09 NE	+ 1	49
18	RCRAGN	MIDWAY INK CORP NJD001346055/VGN	659 1ST ST HOBOKEN NJ 07030	0.09 NE	+ 1	50
18	SPILLS	MIDWAY INC CORP 98-5-7-1028-38/L.U.S.T.	659 1ST ST HOBOKEN NJ 07030	0.09 NE	+ 1	52
18	SPILLS	MIDWAY INK CORPORATION 98-5-19-0038-55/MOA APPLICATION	659 1ST ST HOBOKEN NJ 07030	0.09 NE	+ 1	54
18	STATE	MILE SQUARE MACHINERY INC 022822/ACTIVE	659 1ST ST HOBOKEN NJ 07030	0.09 NE	+ 1	55
18	STATE	MIDWAY INK INCORPORATED NJL800404212/KCSNJ	659 1ST ST HOBOKEN NJ 07030	0.09 NE	+ 1	56
18	UST	MILE SQUARE MACHINERY INC 0228224/INACTIVE	659 1ST ST HOBOKEN NJ 07030	0.09 NE	+ 1	57

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
18	VCP	MIDWAY INK CORPORATION 98-05-19-0038-55/VCP	659 1ST ST HOBOKEN NJ 07030	0.09 NE	+ 1	58
19	LUST	PONPE OFFICE BLDG 92-3-23-1101-47/L.U.S.T.	111 PATERSON AVE HOBOKEN NJ 07030	0.09 NW	+ 1	60
19	SPILLS	POLE MOUNTED TRANSFORMER 97-8-12-1841-34/SPILL	111 PATERSON AVE HOBOKEN NJ 07030	0.09 NW	+ 1	62
19	SPILLS	PONPE OFFICE BLDG 92-3-23-1101-47/L.U.S.T.	111 PATERSON AVE HOBOKEN NJ 07030	0.09 NW	+ 1	64
19	STATE	FORMER CLIPPER TRUCKING 291810/ACTIVE	111 PATERSON AVE HOBOKEN CITY NJ	0.09 NW	+ 1	65
19	STATE	PONTE OFFICE BUILDING 021980/CLOSED	111 PATERSON AVE HOBOKEN CITY NJ	0.09 NW	+ 1	65
19	UST	PONTE OFFICE BUILDING 0219800/INACTIVE	111 PATERSON AVE HOBOKEN NJ 07030	0.09 NW	+ 1	67
19	VCP	FORMER CLIPPER TRUCKING 06-05-12-1954-06/VCP	111 PATERSON AVE HOBOKEN CITY NJ	0.09 NW	+ 1	69
23	LUST	AREA OF 05-08-31-1045-21/TERMINATED	701 1ST ST HOBOKEN NJ 07030	0.10 NW	0	70
26	LUST	PONTE EQUITIES INC LU-91-06-11-0025	119 PATERSON AVE HOBOKEN NJ 07030	0.10 NW	0	71
22	LUST	MOJICA SERVICE CENTER 96-2-20-0945-43/U.S.T.,SOIL CONTAM	1ST ST HOBOKEN NJ 07030	0.10 NW	0	73
22	LUST	MOJICA SERVICE CENTER LU-96-02-20-0945-	703 1ST ST HOBOKEN NJ 07030	0.10 NW	0	74
20	RCRAGN	REGIONAL IMPORT and EXPORT COR NJD048353692/TRANSPORTER	115 PATERSON AVE HOBOKEN NJ 07030	0.10 NW	0	75
22	SPILLS	TAXIE STAND 06-08-30-1431-11/TERMINATED	703 1ST ST HOBOKEN CITY NJ	0.10 NW	0	76
22	SPILLS	MOJICA SERVICE CENTER 96-2-20-0945-43/U.S.T.,SOIL CONTAM	1ST ST HOBOKEN NJ 07030	0.10 NW	0	78
23	SPILLS	AREA OF 05-08-31-1045-21/TERMINATED	701 1ST ST HOBOKEN NJ 07030	0.10 NW	0	79
21	STATE	MOJICA SERVICE CENTER 020543/CLOSED	703 1ST ST HOBOKEN NJ 07030	0.10 NW	0	80
22	STATE	MOJICA SERVICE CENTER NJL800204802	703 1ST ST HOBOKEN NJ 07030	0.10 NW	0	80
22	UST	MOJICA SERVICE CENTER 0205436/INACTIVE	703 1ST ST HOBOKEN NJ 07030	0.10 NW	0	81
23	UST	IRVING S SERVICE CENTER INC 0233840/ACTIVE	701 1ST ST HOBOKEN NJ 07030	0.10 NW	0	82

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
25	SPILLS	IN FRONT OF JUMBO PRINTS 95-1-17-1107-51/ABANDONED CONTAINE	614 NEWARK ST HOBOKEN NJ 07030	0.10 SE	+ 2	84
24	SPILLS	IN FRONT OF 98-4-23-1708-03/SPILL	660 NEWARK ST HOBOKEN NJ 07030	0.10 SW	+ 2	86
34	ENGCONTROL	EHRLICH TRUCKING FACILITY DNA-532/DEED NOTICE EXTENT	119 MARSHALL ST HOBOKEN CITY NJ	0.11 NE	N/A	87
30	SPILLS	INTO SEWER 95-7-19-1605-08/ILLEGAL DUMPING	1ST ST and HARRISON ST HOBOKEN NJ 07030	0.11 NE	0	89
32	SPILLS	ON TIME BUS CO 05-04-18-1022-50/CONTINUOUS	50 MARSHALL ST HOBOKEN CITY NJ	0.11 NW	0	90
32	SPILLS	ON LOCATION MANAGEMENT 06-08-31-0914-38/TERMINATED	50 MARSHALL ST HOBOKEN CITY NJ 07030	0.11 NW	0	91
31	SPILLS	NEAR RESIDENCE 06-01-28-2135-20/CONTINUOUS	700 1ST ST HOBOKEN CITY NJ 07030	0.11 NW	0	92
27	LUST	EDEN BASKETS 96-7-26-1227-05/U.S.T.	601 NEWARK ST HOBOKEN NJ 07030	0.11 SE	+ 3	94
27	RCRAGN	601-619 NEWARK STREET LLC NJR000037200/SGN	601 NEWARK ST HOBOKEN NJ 07310	0.11 SE	+ 3	95
28	SPILLS	BEHIND WINDSOR WAX CO 95-1-25-0202-00/ABANDONED CONTAINE	603 NEWARK ST HOBOKEN NJ 07030	0.11 SE	+ 2	97
33	SPILLS	WINDSOR WAX INC 96-11-11-1213-32/SLOPPY HOUSEKEEPI	611 NEWARK ST HOBOKEN NJ 07310	0.11 SE	+ 2	99
29	SPILLS	COMMERCIAL BLDG 94-5-31-1257-07/ODORS/VAPORS	615 NEWARK ST HOBOKEN NJ 07030	0.11 SE	+ 2	101
27	SPILLS	EDEN BASKETS 96-7-26-1227-05/U.S.T.	601 NEWARK ST HOBOKEN NJ 07030	0.11 SE	+ 3	103
36	LUST	VACANT LOT AT 07-02-22-1330-32/TERMINATED	101 HARRISON ST HOBOKEN CITY NJ 07030	0.12 NE	+ 1	105
36	RCRAGN	P and M TIRE FACILITY FORMER NJR000065649/LGN	101 HARRISON ST HOBOKEN NJ 07030	0.12 NE	+ 1	106
35	RCRAGN	109 HARRISON STREET LLC NJR000065383/LGN	109 HARRISON ST HOBOKEN NJ 07030	0.12 NE	+ 1	107
36	SPILLS	VACANT LOT AT 07-02-22-1330-32/TERMINATED	101 HARRISON ST HOBOKEN CITY NJ 07030	0.12 NE	+ 1	109
36	SPILLS	FORMER P AND M TIRE AND BRAKES 06-12-08-1529-11/TERMINATED	101 HARRISON ST HOBOKEN CITY NJ	0.12 NE	+ 1	110
36	STATE	PandM TIRE and BRAKES PROPERTY 420421/ACTIVE	101 HARRISON ST HOBOKEN NJ 07030	0.12 NE	+ 1	111
36	UST	PandM TIRE and BRAKES PROPERTY 420421/INACTIVE	101 HARRISON ST HOBOKEN CITY NJ 07030	0.12 NE	+ 1	113

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
36	VCP	PandM TIRE and BRAKES PROPERTY 07-02-22-1330-32/VCP	101 HARRISON ST HOBOKEN CITY NJ 07030	0.12 NE	+ 1	114
36	VCP	PandM TIRE and BRAKES PROPERTY 06-12-08-1529-11/VCP	101 HARRISON ST HOBOKEN CITY NJ 07030	0.12 NE	+ 1	114
37	LUST	BLOCK 25 LOT 8 96-6-14-1206-22/U.S.T.,SOIL CONTAM	101 MARSHALL ST HOBOKEN NJ 07030	0.12 NW	0	116
37	SPILLS	BLOCK 25 LOT 8 96-6-14-1206-22/U.S.T.,SOIL CONTAM	101 MARSHALL ST HOBOKEN NJ 07030	0.12 NW	0	118
38	SPILLS	AT INTERSECTION OF 94-7-7-1414-40	1ST ST and PATERSON AVE HOBOKEN NJ 07030	0.12 NW	0	121
37	STATE	FORMER EHRLICH TRUCKING 031346/ACTIVE	101 MARSHALL ST HOBOKEN CITY NJ	0.12 NW	0	122
37	STATE	EHRLICH TRUCKING (FORMER) NJL800243818/KCSNJ	101 MARSHALL ST HOBOKEN NJ 07030	0.12 NW	0	122
37	VCP	EHRLICH TRUCKING (FORMER) 96-06-14-1206-22/VCP	101 MARSHALL ST 121-133 MAR HOBOKEN NJ 07030	0.12 NW	0	123
39	SPILLS	AUTO MOTIVE COMPANY AT 96-10-25-0930-30/ILLEGAL DUMPING	571 NEWARK ST HOBOKEN NJ 07310	0.12 SE	+ 3	125
43	FEDBF	JACKSON STREET GARAGE 10000002-37/EPA BROWNFIELD	116 JACKSON ST HOBOCKEN NJ	0.13 NE	+ 4	127
41	STATE	109 HARRISON STREET LLC 256830/CLOSED	109 HARRISON ST HOBOKEN CITY NJ	0.13 NE	+ 1	128
40	STATE	108 JACKSON ST LLC NJL800561904/KCSNJ	108 JACKSON ST HOBOKEN NJ 07030	0.13 NE	+ 4	128
40	STATE	108 JACKSON ST LLC G000043386/CLOSED	108 JACKSON ST HOBOKEN NJ 07030	0.13 NE	+ 4	129
43	STATE	JACKSON STREET GARAGE 189864/ACTIVE	116 JACKSON ST HOBOKEN CITY NJ 07030	0.13 NE	+ 4	129
41	UST	109 HARRISON STREET LLC 256830/INACTIVE	109 HARRISON ST HOBOKEN CITY NJ 07039	0.13 NE	+ 1	131
43	VCP	JACKSON STREET GARAGE 02-12-05-0109-20/VCP	116 JACKSON ST HOBOKEN NJ 07030	0.13 NE	+ 4	132
40	VCP	108 JACKSON STREET LLC 00-04-06-0003-44/VCP	108 JACKSON ST HOBOKEN NJ 07030	0.13 NE	+ 4	132
44	UST	FORMER EHRILICH TRUCKING FACIL 0137126/INACTIVE	111 MARSHALL ST HOBOKEN NJ 07030	0.13 NW	0	133
42	LUST	RESID 07-12-11-1332-43/TERMINATED	60 MADISON ST HOBOKEN CITY NJ 07601	0.13 SE	+ 2	134
42	STATE	60 MADISON STREET 459396/CLOSED	60 MADISON ST HOBOKEN CITY NJ	0.13 SE	+ 2	135

Environmental FirstSearch
Sites Summary Report

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TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
45	LUST	ROADWAY 91-6-12-0022-59/SPILL, L.U.S.T.	HARRISON ST and NEWARK ST HOBOKEN NJ 07030	0.13 SW	+ 1	137
48	STATE	110 JACKSON ST NJL800561912/KCSNJ	110 JACKSON ST HOBOKEN NJ 07030	0.14 NE	+ 5	138
49	STATE	112 JACKSON ST LLC NJL800561920/KCSNJ	112 JACKSON ST HOBOKEN NJ 07030	0.14 NE	+ 5	138
49	STATE	112 JACKSON ST LLC G000043388/CLOSED	112 JACKSON ST HOBOKEN NJ 07030	0.14 NE	+ 5	140
50	STATE	ALLIED PUMP FACILITY FORMER 254482/ACTIVE	128 HARRISON ST HOBOKEN CITY NJ	0.14 NE	+ 1	140
48	STATE	110 JACKSON ST G000043387/CLOSED	110 JACKSON ST HOBOKEN NJ 07030	0.14 NE	+ 5	140
49	VCP	112 JACKSON STREET LLC 00-04-06-0000-35/VCP	112 JACKSON ST HOBOKEN NJ 07030	0.14 NE	+ 5	140
48	VCP	110 JACKSON STREET LLC 00-04-06-0004-44/VCP	110 JACKSON ST HOBOKEN NJ 07030	0.14 NE	+ 5	141
52	LUST	108 MARSHALL ST LU-0502-3403	108 MARSHALL ST HOBOKEN NJ 07030	0.14 NW	0	141
52	UST	108 MARSHALL ST 0113780/INACTIVE	108 MARSHALL ST HOBOKEN NJ 07030	0.14 NW	0	143
53	LUST	FIREHOUSE TRUCK 2 02-11-15-1019-26/TERMINATED	43 MADISON ST HOBOKEN CITY NJ 07030	0.14 SE	+ 2	144
47	RCRAGN	HOBOKEN FIREHOUSE NJR000049163/VGN	55 MADISON - AKA 256 ST HOBOKEN NJ 07030	0.14 SE	+ 1	145
51	STATE	HETZEL PROPERTY G000023296/CLOSED	65 MADISON ST HOBOKEN CITY NJ	0.14 SE	+ 2	146
47	UST	FIREHOUSE TRUCK 2 0331463/INACTIVE	55 MADISON ST HOBOKEN NJ 07030	0.14 SE	+ 1	147
46	NFRAP	IDEAL COOPERAGE INC NJD980532907/NFRAP-N	3 NEW YORK AVE JERSEY CITY NJ 07306	0.14 SW	0	148
46	STATE	K MART APPAREL CORP 016819/CLOSED	7373 WEST SIDE AVE NORTH BERGEN T NJ	0.14 SW	0	149
46	STATE	IDEAL COOPERAGE INCORPORATED G000004613/ACTIVE	3 TO 5 NEW YORK AVE JERSEY CITY NJ 07307	0.14 SW	0	149
46	STATE	IDEAL COOPERAGE INCORPORATED NJD980532907/KCSNJ	3 NEW YORK AVE JERSEY CITY NJ 07307	0.14 SW	0	150
56	FEDBF	JACKSON STREET GARAGE 10000002-10136/EPA BROWNFIELD	116 JACKSON ST HOBOKEN NJ 07030	0.15 NE	+ 6	151
54	LUST	JOE S TEXACO LU-90-01-17-1443	117 JACKSON ST HOBOKEN NJ 07030	0.15 NE	+ 7	152

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
54	STATE	THE MUFFLER SHOP INC 021177/CLOSED	117 JACKSON ST HOBOKEN NJ 07030	0.15 NE	+ 7	152
54	UST	THE MUFFLER SHOP INC 0211772/INACTIVE	117 JACKSON ST HOBOKEN NJ 07030	0.15 NE	+ 7	154
55	LUST	EHRLICH TRUCKING (FORMER) LU-96-06-14-1200-	119 MARSHALL ST HOBOKEN NJ 07030	0.15 NW	+ 1	155
55	LUST	COMMERCIAL BUILDING 98-4-30-1215-05/L.U.S.T.	119 MARSHALL ST HOBOKEN NJ 07030	0.15 NW	+ 1	157
55	LUST	LOT 13,14,and 15 BLOCK 25 96-6-14-1200-52/U.S.T.,SOIL CONTAM	119 MARSHALL ST HOBOKEN NJ 07030	0.15 NW	+ 1	159
55	UST	FORMER EHRLICH TRUCKING 0313463/INACTIVE	119 MARSHALL ST HOBOKEN NJ 07030	0.15 NW	+ 1	161
58	LUST	RESIDENCE AT 10-03-16-1401-23/TERMINATED	109 MONROE ST HOBOKEN NJ 07030	0.16 NE	+ 7	162
58	STATE	T M CONTRACTING COMPANY INCORP 532420/CLOSED	109 MONROE ST HOBOKEN NJ 07030	0.16 NE	+ 7	163
60	LUST	VACANT LOT 98-2-13-1019-52/L.U.S.T.	16 NEW YORK UNION CITY NJ 07087	0.16 NW	+ 1	165
60	LUST	VACANT LOT LU-98-02-13-1019-	16 NEW YORK AVE UNION CITY NJ 07087	0.16 NW	+ 1	166
59	LUST	PARKING LOT 90-12-06-1556/L.U.S.T.	551 NEWARK ST HOBOKEN NJ 07030	0.16 SE	+ 2	168
57	STATE	HETZEL PROPERTY NJL800062325/KCSNJ	65 MADISON ST HOBOKEN NJ 07030	0.16 SE	+ 2	169
57	VCP	OVF DEVELOPMENT SITE 94-05-20-1803-02M/VCP	60 JEFFERRSON ST HOBOKEN NJ 07030	0.16 SE	+ 2	169
61	FIMAP	FIRE INSURANCE MAP POLY-9730/HOPKINS	JERSEY CITY NJ 07306	0.16 SW	N/A	170
65	ENGCONTROL	BROWNSTONE CO. DNA-419/DEED NOTICE EXTENT	129 ,131,133 JACKSON ST HOBOKEN CITY NJ	0.17 NE	N/A	171
62	LUST	V PONTE and SONS INC LU-01-02-26-1215-	2 HOPE ST JERSEY CITY NJ 07307	0.17 NW	+ 2	172
62	LUST	V PONTE and SONS INC 95-4-11-1712-03/U.S.T.	24 HOPE ST JERSEY CITY NJ 07307	0.17 NW	+ 2	174
62	LUST	V PONTE and SONS 01-02-26-1215-38/UNDERGROUND STORA	2 HOPE ST JERSEY CITY NJ 07307	0.17 NW	+ 2	175
62	RCRAGN	V PONTE and SONS INC NJD098262264/TR	2 HOPE ST JERSEY CITY NJ 07307	0.17 NW	+ 2	176
62	STATE	V PONTE and SONS INC 000791/ACTIVE	2 HOPE ST JERSEY CITY NJ 07306	0.17 NW	+ 2	176

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
63	SWL	ALL AMERICAN RECYCLING CORP. 0906001334/INACTIVE	2 HOPE ST JERSEY CITY NJ NJ 07307	0.17 NW	N/A	177
62	UST	V PONTE and SONS INC 0007913/INACTIVE	2 HOPE ST JERSEY CITY NJ 07307	0.17 NW	+ 2	178
64	UST	HOBOKEN HAND CAR WASH G000012077/INACTIVE	507 NEWARK ST JERSEY CITY NJ 07310	0.17 SE	+ 1	179
67	STATE	BROWNSTONE COMPANY 1 G000034949/ACTIVE	129 JACKSON ST HOBOKEN NJ 07030	0.18 NE	+ 10	180
67	STATE	BROWNSTONE COMPANY 1 NJL800405912/KCSNJ	129 JACKSON ST HOBOKEN NJ 07030	0.18 NE	+ 10	180
67	VCP	BROWNSTONE COMPANY 1 98-05-13-0048-37A/VCP	129 MONROE ST HOBOKEN NJ 07030	0.18 NE	+ 10	181
67	VCP	BROWNSTONE COMMUNITIES 98-05-13-0048-37/VCP	129 MONROE ST HOBOKEN NJ 07030	0.18 NE	+ 10	181
66	RCRAGN	BASF CORP NJR000008326/VGN	15 NEW YORK AVE JERSEY CITY NJ 07307	0.18 NW	+ 1	182
69	STATE	72 TO 84 JEFFERSON STREET G000029545/ACTIVE	72 JEFFERSON ST HOBOKEN CITY NJ	0.19 NE	+ 3	183
68	STATE	72 TO 84 JEFFERSON STREET NJL800244659/KCSNJ	72 JEFFERSON ST HOBOKEN NJ 07030	0.19 NE	+ 2	183
68	VCP	72 TO 84 JEFFERSON STREET 96-08-23-1510-40/VCP	72 JEFFERSON ST HOBOKEN NJ 07030	0.19 NE	+ 2	184
70	STATE	FRAME COMPANY G000012868/CLOSED	33 HOPE ST JERSEY CITY NJ	0.19 NW	+ 2	184
71	STATE	MILLENNIUM TOWERS LLC 329546/ACTIVE	677 GROVE ST JERSEY CITY NJ	0.19 SE	0	185
71	VCP	MILLENNIUM TOWERS LLC 06-12-02-0549-11/VCP	677 GROVE ST JERSEY CITY NJ	0.19 SE	0	185
73	STATE	220 JACKSON STREET 130430/ACTIVE	220 JACKSON ST HOBOKEN CITY NJ 07030	0.20 NE	+ 11	186
73	UST	220 JACKSON STREET 130430/INACTIVE	220 JACKSON ST HOBOKEN CITY NJ 07030	0.20 NE	+ 11	187
72	CERCLIS	CONRAIL-YARD NJD980770036/NOT PROPOSED	688 HENDERSON ST JERSEY CITY NJ 07030	0.20 SE	+ 1	188
72	STATE	CONRAIL YARD NJD980770036/KCSNJ	688 HENDERSON ST HOBOKEN NJ 07030	0.20 SE	+ 1	188
77	LUST	CUNNINGHAM MARINE 00-07-14-1555-21/UNDERGROUND STORA	200 JACKSON ST HOBOKEN NJ 07030	0.21 NE	+ 12	189
74	LUST	CONNORS ELEMENTARY SCHOOL 93-12-17-1122-09/L.U.S.T.	2ND ST HOBOKEN NJ 07030	0.21 NE	+ 10	191

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
74	LUST	CONNORS ELEMENTARY SCHOOL LU-93-12-17-1122-	2ND ST HOBOKEN NJ 07030	0.21 NE	+ 10	192
74	STATE	CONNORS ELEMENTARY SCHOOL NJL800027013	2ND ST HOBOKEN NJ 07030	0.21 NE	+ 10	192
75	STATE	CUNNINGHAM MARINE HYDRAULICS C G000042141/CLOSED	201 HARRISON ST HOBOKEN CITY NJ	0.21 NE	+ 10	193
74	UST	CONNORS SCHOOL 0250805/INACTIVE	2ND ST and MONROE ST HOBOKEN NJ 07030	0.21 NE	+ 10	194
76	STATE	LIFSCHULTE TRUCKING NJL000068932	850 JERSEY AVE JERSEY CITY NJ 07310	0.21 SW	0	195
76	STATE	LIFSCHULTZ TRUCKING G000011455/CLOSED	850 JERSEY AVE JERSEY CITY NJ	0.21 SW	0	195
76	VCP	FORMER LIFSCHULTZ FAST FREIGHT 93-05-05-1308-12A/VCP	850 JERSEY AVE JERSEY CITY NJ 07310	0.21 SW	0	196
76	VCP	FORMER LIFSCHULTZ TRUCKING 93-05-05-1308-12/VCP	850 JERSEY AVE JERSEY CITY NJ 07702	0.21 SW	0	196
83	LUST	RESID 08-10-17-1058-45/TERMINATED	222 JACKSON ST HOBOKEN NJ 07030	0.22 NE	+ 13	197
82	LUST	CUNNINGHAM MARINE 03-07-17-1058-00/TERMINATED	201 HARRISON ST HOBOKEN CITY NJ	0.22 NE	+ 11	198
78	STATE	222 JACKSON STREET 508951/CLOSED	222 JACKSON ST HOBOKEN NJ 07030	0.22 NE	+ 13	199
80	STATE	HOBOKEN REC CENTER PLAYGROUND 543130/ACTIVE	109 JEFFERSON ST HOBOKEN NJ 07030	0.22 NE	+ 4	199
81	UST	MONROE GARDENS 0175061/INACTIVE	221 JACKSON ST HOBOKEN NJ 07030	0.22 NE	+ 13	200
79	STATE	CONRAIL YARD G000005103/ACTIVE	688 LUIS MUNOZ JERSEY CITY NJ 07890	0.22 SE	0	201
79	STATE	HENDERSON YARDS G000023492/ACTIVE	688 LUIS MUNOZ MARIN BLVD JERSEY CITY NJ	0.22 SE	0	202
85	LUST	BOYS and GIRLS CLUB 00-02-24-1310-28/UNDERGROUND STORA	123 JEFFERSON ST HOBOKEN NJ 07030	0.23 NE	+ 4	204
85	LUST	BOYS and GIRLS CLUB OF HOBOKEN LU-00-02-24-1310-	123 JEFFERSON AVE HOBOKEN NJ 07030	0.23 NE	+ 4	206
85	STATE	BOYS and GIRLS CLUB OF HOBOKEN 022583/CLOSED	123 JEFFERSON ST HOBOKEN CITY NJ	0.23 NE	+ 4	206
85	UST	BOYS and GIRLS CLUB OF HOBOKEN 0225830/INACTIVE	123 JEFFERSON ST HOBOKEN NJ 07030	0.23 NE	+ 4	207
84	RCRAGN	VERIZON - JERSEY CITY GARAGE NJR000040402/VGN	660 GROVE ST JERSEY CITY NJ 07302	0.23 SE	0	208

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
86	LUST	RESID 04-08-17-1142-42/TERMINATED	213 MONROE ST HOBOKEN NJ 07030	0.24 NE	+ 10	209
93	LUST	BUILDING AT 99-08-04-1356-39/UNDERGROUND STORA	231 MADISON ST HOBOKEN NJ 07030	0.24 NE	+ 5	210
86	LUST	RESID 02-10-31-1445-04/CONTINUOUS	213 MONROE ST HOBOKEN NJ 07030	0.24 NE	+ 10	211
86	STATE	213 MONROE STREET 252029/CLOSED	213 MONROE ST HOBOKEN NJ 07030	0.24 NE	+ 10	212
89	STATE	78 TO 88 ADAMS STREET G000029544/CLOSED	78 ADAMS ST HOBOKEN CITY NJ	0.24 NE	+ 3	213
88	STATE	78 TO 88 ADAMS STREET NJL800244642/KCSNJ	78 ADAMS ST HOBOKEN NJ 07030	0.24 NE	+ 3	213
86	VCP	213 MONROE STREET 04-08-17-1142-42/VCP	213 MONROE ST HOBOKEN NJ 07030	0.24 NE	+ 10	214
88	VCP	78 TO 88 ADAMS STREET 96-08-23-1513-39/VCP	78 ADAMS ST HOBOKEN NJ 07030	0.24 NE	+ 3	214
92	LUST	AREA OF 02-07-24-1935-33/UNDETERMINED	122 OGDEN AVE JERSEY CITY NJ	0.24 NW	+ 38	215
87	LUST	AT 04-12-15-1231-20/TERMINATED	220 OGDEN AVE JERSEY CITY NJ 07303	0.24 NW	+ 73	216
87	STATE	220 OGDEN AVENUE 245159/CLOSED	220 OGDEN AVE JERSEY CITY NJ	0.24 NW	+ 73	217
90	STATE	HARBORVIEW HEALTH CARE CENTER G000033413/CLOSED	178 OGDEN AVE JERSEY CITY NJ	0.24 NW	+ 50	217
87	VCP	220 OGDEN AVENUE 04-12-15-1231-20/VCP	220 OGDEN AVE JERSEY CITY NJ 07307	0.24 NW	+ 73	218
91	STATE	HUDSON COUNTY CHROMATE 94 NJL000000943/KCSNJ	18TH ST and JERSEY AVE JERSEY CITY NJ 07310	0.24 SW	0	218
91	STATE	HUDSON CNTY CHROMATE 94 244883/ACTIVE	18TH ST and JERSEY AVE JERSEY CITY NJ 07407	0.24 SW	0	219
91	UST	EXXON R/S 3-0593 033791/ACTIVE	JERSEY CITY JERSEY CITY NJ 07310	0.24 SW	0	221
98	ENGCONTROL	PSEandG PALISADE AVE. SUBSTATI DNA-399/DEED NOTICE EXTENT	322 TO 324 PALISADE AVE JERSEY CITY NJ	0.25 NW	N/A	222
96	LUST	HARBOR VIEW HEALTH CARE 97-11-19-1452-01/U.S.T.	178 OGDEN AVE JERSEY CITY NJ 07307	0.25 NW	+ 85	224
97	LUST	RESIDENCE 06-03-23-0927-27/TERMINATED	110 OGDEN AVE JERSEY CITY NJ	0.25 NW	+ 40	225
94	LUST	EMC, MORTGAGE/STEVE CRIVELLO 01-03-19-1545-46/UNDERGROUND STORA	250 OGDEN AVE JERSEY CITY NJ 07307	0.25 NW	+ 79	226

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
94	STATE	250 OGDEN AVENUE G000061909/CLOSED	250 OGDEN AVE JERSEY CITY NJ 07300	0.25 NW	+ 79	226
97	VCP	110 OGDEN AVENUE 06-03-23-0927-27/VCP	110 OGDEN AVE JERSEY CITY NJ	0.25 NW	+ 40	227
94	VCP	250 OGDEN AVENUE 01-03-19-1545-46/VCP	250 OGDEN AVE JERSEY CITY NJ 07090	0.25 NW	+ 79	227
95	LUST	AMOCO STATION 00-05-02-1001-52/UNDERGROUND STORA	425 NEWARK ST HOBOKEN NJ 07030	0.25 SE	+ 2	228
95	LUST	HOBOKEN AMOCO INC LU-00-05-02-1001-	425 NEWARK ST HOBOKEN NJ 07030	0.25 SE	+ 2	229
95	STATE	HOBOKEN EXXON INC 032860/ACTIVE	425 NEWARK ST HOBOKEN CITY NJ 07030	0.25 SE	+ 2	230
95	STATE	AMOCO SERVICE STATION HOBOKEN NJL800437584/KCSNJ	425 NEWARK AVE HOBOKEN NJ 07030	0.25 SE	+ 2	231
95	UST	HOBOKEN EXXON INC 0328601/ACTIVE	425 NEWARK ST HOBOKEN NJ 07030	0.25 SE	+ 2	233
99	ENGCONTROL	TROY LIGHTING INC. DNA-439/DEED NOTICE EXTENT	833 JERSEY AVE JERSEY CITY NJ	0.25 SW	N/A	235
101	LUST	KLEINER PROPERTIES LLC 03-10-24-1822-51/TERMINATED	504 2ND ST HOBOKEN NJ 07030	0.26 NE	+ 4	N/A
103	LUST	EDMUND KLEINER RESIDENCE 04-09-23-1229-54/TERMINATED	502 2ND ST HOBOKEN NJ 07030	0.26 NE	+ 3	N/A
101	LUST	AREA OF 03-11-06-1615-45/CONTINUOUS	504 2ND ST HOBOKEN NJ 07030	0.26 NE	+ 4	N/A
101	STATE	502 506 2ND STREET 216133/CLOSED	504 2ND ST HOBOKEN NJ 07030	0.26 NE	+ 4	N/A
100	STATE	233 MADISON ST NJL800509697/KCSNJ	233 MADISON ST HOBOKEN NJ 07030	0.26 NE	+ 5	N/A
100	STATE	233 MADISON ST G000040506/CLOSED	233 MADISON ST HOBOKEN CITY NJ	0.26 NE	+ 5	N/A
100	VCP	233 MADISON STREET 99-08-04-1356-39/VCP	233 MADISON ST HOBOKEN NJ 07030	0.26 NE	+ 5	N/A
102	LUST	833 JERSEY AVE. CORP 93-8-18-1050-44/L.U.S.T.	833 JERSEY AVE JERSEY CITY NJ 07310	0.26 SW	0	N/A
102	LUST	833 JERSEY AVENUE CORPORATION LU-93-08-17-1204	833 JERSEY AVE JERSEY CITY NJ 07310	0.26 SW	0	N/A
102	LUST	833 JERSEY AVENUE CORPORATION LU-93-08-18-1050	833 JERSEY AVE JERSEY CITY NJ 07310	0.26 SW	0	N/A
102	STATE	833 JERSEY AVENUE CORPORATION NJL800006793	833 JERSEY AVE JERSEY CITY NJ 07310	0.26 SW	0	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
102	STATE	833 JERSEY AVENUE CORP 024517/ACTIVE	833 JERSEY AVE JERSEY CITY NJ 07310	0.26 SW	0	N/A
102	STATE	TROY LIGHTING INCORPORATED NJK000002469/KCSNJ	833 JERSEY AVE JERSEY CITY NJ 07310	0.26 SW	0	N/A
102	VCP	MAGASCHONI APPAREL GROUP 03-08-21-0541-21A/VCP	833 JERSEY AVE JERSEY CITY NJ 10018	0.26 SW	0	N/A
102	VCP	MAGASCHONI APPAREL GROUP (FORM 03-08-21-0541-21/VCP	833 JERSEY AVE JERSEY CITY NJ 07030	0.26 SW	0	N/A
104	STATE	100 PATERSON PLANK ROAD 162736/ACTIVE	100 PATTERSON PLANK ROAD JERSEY CITY NJ 07307	0.27 NW	+ 12	N/A
104	VCP	100 PATERSON PLANK ROAD 02-08-21-0141-53B/VCP	100 PATERSON PLANK ROAD JERSEY CITY NJ 07030	0.27 NW	+ 12	N/A
104	VCP	100 PATERSON PLANK ROAD 02-08-21-0141-53/VCP	100 PATERSON PLANK ROAD JERSEY CITY NJ 07030	0.27 NW	+ 12	N/A
104	VCP	100 PATERSON PLANK ROAD 02-08-21-0141-53A/VCP	100 PATERSON PLANK ROAD JERSEY CITY NJ 07030	0.27 NW	+ 12	N/A
105	STATE	BLOCK 330 329537/ACTIVE	827 JERSEY AVE JERSEY CITY NJ 07310	0.28 SW	0	N/A
105	VCP	BLOCK 330 06-12-02-0552-51/VCP	827 JERSEY AVE JERSEY CITY NJ 07310	0.28 SW	0	N/A
107	STATE	PSEandG PALISADE AVENUE SUBSTA NJX000250258/KCSNJ	322 PALISADE AVE JERSEY CITY NJ 07307	0.29 NW	+ 98	N/A
107	STATE	PSEandG PALISADE AVENUE SUBSTA G000026555/ACTIVE	322 TO 324 PALISADE AVE JERSEY CITY NJ 07303	0.29 NW	+ 98	N/A
108	LUST	AREA OF PARKING LOT 08-12-09-1437-18/TERMINATED	18 TH ST/ MARIN BLVD JERSEY CITY NJ	0.29 SE	0	N/A
106	STATE	NEW JERSEY TRANSIT 280867/ACTIVE	LUIS MUNOZ MARIN and 18TH B JERSEY CITY NJ	0.29 SE	0	N/A
110	LUST	RESIDENCE 02-11-21-1441-04/TERMINATED	400 1ST ST HOBOKEN NJ 07030	0.30 NE	+ 2	N/A
110	STATE	MARIAN TOWERS ASSOCIATES 021413/CLOSED	400 1ST ST HOBOKEN NJ 07030	0.30 NE	+ 2	N/A
111	VCP	606 THIRD AVENUE 02-12-19-1352-35/VCP	606 3RD AVE BRADLEY BEACH NJ 07030	0.30 NE	+ 11	N/A
110	VCP	400 1ST STREET 02-11-21-1441-04/VCP	400 1ST ST HOBOKEN NJ 07030	0.30 NE	+ 2	N/A
109	LUST	APARTMENT COMPLEX 99-02-11-0907-01/UNDERGROUND STORA	329 PALISADE AVE JERSEY CITY NJ 07307	0.30 NW	+ 99	N/A
109	STATE	329 PALISADE AVENUE NJL800471765/KCSNJ	329 PALISADE AVE JERSEY CITY NJ 07307	0.30 NW	+ 99	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
109	STATE	329 PALISADE AVENUE G000037883/CLOSED	329 PALISADE AVE JERSEY CITY NJ	0.30 NW	+ 99	N/A
109	VCP	329 PALISADE AVENUE 99-02-11-0907-01/VCP	329 PALISADE AVE JERSEY CITY NJ 08882	0.30 NW	+ 99	N/A
112	LUST	SENIOR CITIZEN BLDG 91-10-16-0954-29/L.U.S.T.	220 ADAMS ST HOBOKEN NJ 07030	0.31 NE	+ 3	N/A
114	LUST	BUILDING COMPLEX LU-02-02-14-1652-	124 GRAND AVE HOBOKEN NJ 07030	0.31 NE	+ 1	N/A
112	STATE	ADAMS GARDENS NJL600115984/KCSNJ	220 ADAMS ST HOBOKEN NJ 07030	0.31 NE	+ 3	N/A
112	STATE	ADAMS GARDENS 018323/CLOSED	220 ADAMS ST HOBOKEN CITY NJ	0.31 NE	+ 3	N/A
114	STATE	MULTI SERVICE CENTER 033149/ACTIVE	124 GRAND ST HOBOKEN CITY NJ 07030	0.31 NE	+ 1	N/A
115	LUST	RESID 05-11-03-1157-46/TERMINATED	357 PALISADE AVE JERSEY CITY NJ 07307	0.31 NW	+ 98	N/A
113	STATE	BLOCK 367 329516/ACTIVE	305 COLES ST JERSEY CITY NJ	0.31 SW	0	N/A
113	VCP	BLOCK 367 06-12-02-0557-18/VCP	305 COLES ST JERSEY CITY NJ	0.31 SW	0	N/A
117	LUST	R and S MANUFACTURING CO LU-97-01-21-1520-	121 GRAND ST HOBOKEN NJ 07030	0.32 NE	+ 1	N/A
117	STATE	RandS MANUFACTURING CO INC 031497/CLOSED	121 GRAND ST HOBOKEN CITY NJ	0.32 NE	+ 1	N/A
117	STATE	RandS MANUFACTURING COMPANY NJL800284523	121 GRAND ST HOBOKEN NJ 07030	0.32 NE	+ 1	N/A
118	LUST	RESIDENCE 91-2-27-1443-02/SOIL CONTAMINATION	376 PALISADE AVE JERSEY CITY NJ 07307	0.32 NW	+ 100	N/A
116	BROWNFIELD	CITY CHEMICAL CORP. 1317/BFSM	100 HOBOKEN AVE JERSEY CITY NJ 07306	0.32 SW	0	N/A
116	CERCLIS	CITY CHEMICAL CORP NJD001306414/NOT PROPOSED	100 HOBOKEN AVE JERSEY CITY NJ 07310	0.32 SW	0	N/A
116	LUST	CITY CHEMICAL CORP LU-02-03-13-1142-	100 HOBOKEN AVE JERSEY CITY NJ 07310	0.32 SW	0	N/A
116	STATE	CITY CHEMICAL CORPORATION G000000980/ACTIVE	100 HOBOKEN AVE JERSEY CITY NJ 07302	0.32 SW	0	N/A
116	STATE	CITY CHEMICAL CORPORATION NJD001306414/KCSNJ	100 HOBOKEN AVE JERSEY CITY NJ 07310	0.32 SW	0	N/A
116	VCP	CITY CHEMICAL CORPORATION (FOR 01-02-02-0128-51/VCP	100 HOBOKEN AVE JERSEY CITY NJ 07302	0.32 SW	0	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
126	ENGCONTROL	PALERMO FASHIONS DNA-420/DEED NOTICE EXTENT	208 GRAND ST HOBOKEN CITY NJ	0.33 NE	N/A	N/A
123	LUST	COMMERCIAL GARAGE 99-12-29-1222-23/UNDERGROUND STORA	331 JACKSON ST HOBOKEN NJ 07030	0.33 NE	+ 16	N/A
123	LUST	MONACO APARTMENTS LU-99-12-29-1222-	331 JACKSON ST HOBOKEN NJ 07030	0.33 NE	+ 16	N/A
125	LUST	RESIDENCE 10-08-13-1113-30/TERMINATED	331 MONROE ST HOBOKEN NJ 07030	0.33 NE	+ 11	N/A
119	STATE	301 MADISON STREET 465615/CLOSED	301 MADISON ST HOBOKEN CITY NJ	0.33 NE	+ 6	N/A
119	VCP	301 MADISON STREET 07-06-05-1517-05/VCP	301 MADISON ST HOBOKEN CITY NJ 07030	0.33 NE	+ 6	N/A
121	LUST	AREA OF 07-09-07-1314-55/TERMINATED	13 RAVINE AVE JERSEY CITY NJ	0.33 NW	+ 97	N/A
124	LUST	DAVID WALLER RESIDENCE 00-10-13-1215-23/UNDERGROUND STORA	384 PALISADE AVE JERSEY CITY NJ 07307	0.33 NW	+ 98	N/A
122	LUST	CITIZEN 92-1-3-1249-12/L.U.S.T.	252 OGDEN AVE JERSEY CITY NJ 07307	0.33 NW	+ 81	N/A
121	STATE	MUKHERJEE PROPERTY 455996/CLOSED	13 RAVINE AVE JERSEY CITY NJ	0.33 NW	+ 97	N/A
120	STATE	BLOCK 329 329544/ACTIVE	258 16TH ST JERSEY CITY NJ	0.33 SW	0	N/A
120	VCP	BLOCK 329 06-12-02-0550-45/VCP	258 16TH ST JERSEY CITY NJ	0.33 SW	0	N/A
127	LUST	ST FRANCIS CHURCH 99-01-05-1428-53/UNDERGROUND STORA	308 JEFFERSON ST HOBOKEN NJ 07030	0.34 NE	+ 5	N/A
127	LUST	ST FRANCIS CHURCH LU-99-01-05-1428-	308 JEFFERSON ST HOBOKEN NJ 07030	0.34 NE	+ 5	N/A
132	LUST	APARTMENT COMPLEX 01-03-09-1438-24/UNDERGROUND STORA	330 MADISON ST HOBOKEN NJ 07030	0.34 NE	+ 7	N/A
127	STATE	308 JEFFERSON ST NJL800439085/KCSNJ	308 JEFFERSON ST HOBOKEN NJ 07030	0.34 NE	+ 5	N/A
130	STATE	NEWARK and CLINTON ST G000035667/CLOSED	82 CLINTON ST HOBOKEN CITY NJ	0.34 NE	0	N/A
130	VCP	NEWARK AND CLINTON STREET 98-07-15-0031-00/VCP	82 CLINTON ST HOBOKEN NJ 07030	0.34 NE	0	N/A
128	LUST	RESIDENCE 07-03-20-1436-06/TERMINATED	8 RESERVOIR AVE JERSEY CITY NJ 07302	0.34 NW	+ 93	N/A
131	LUST	APARTMENT BUILDING AT 07-09-07-1323-15/TERMINATED	40 BOORAEM AVE JERSEY CITY NJ 07302	0.34 NW	+ 90	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
128	STATE	8 10 RESERVOIR AVENUE 450864/CLOSED	8 RESERVOIR AVE JERSEY CITY NJ	0.34 NW	+ 93	N/A
128	VCP	8 10 RESERVOIR AVENUE 07-03-20-1436-06/VCP	8 RESERVOIR AVE JERSEY CITY NJ	0.34 NW	+ 93	N/A
129	LUST	OGDEN REALTY CORP 09-08-20-1314-25/TERMINATED	311 17TH ST JERSEY CITY NJ 07310	0.34 SW	0	N/A
129	STATE	BLOCK 366 329530/ACTIVE	311 17TH ST JERSEY CITY NJ	0.34 SW	0	N/A
129	VCP	BLOCK 366 06-12-02-0555-37/VCP	311 17TH ST JERSEY CITY NJ	0.34 SW	0	N/A
136	LUST	SAINT MARY S HOSPITAL LU-0502-2116	122 TO 132 CLINTON ST HOBOKEN NJ 07030	0.35 NE	0	N/A
135	LUST	PALERMO FASHIONS 97-1-11-1133-05/U.S.T.	208 GRAND ST HOBOKEN NJ 07030	0.35 NE	+ 1	N/A
135	STATE	PALERMO FASHIONS G000030650/ACTIVE	208 GRAND ST HOBOKEN CITY NJ 07030	0.35 NE	+ 1	N/A
135	STATE	PALERMO FASHIONS NJL800282725/KCSNJ	208 GRAND ST HOBOKEN NJ 07030	0.35 NE	+ 1	N/A
134	LUST	WEGRZYNIAK RESIDENCE LU-90-02-05-1018	46 BOOREAM AVE JERSEY CITY NJ 07307	0.35 NW	+ 93	N/A
133	LUST	AT RESIDENCE 06-04-07-1625-35/TERMINATED	156 NEW YORK AVE JERSEY CITY NJ	0.35 NW	+ 100	N/A
134	STATE	46 BOOREAM AVENUE NJL840001507	46 BOORAEM AVE JERSEY CITY NJ 07307	0.35 NW	+ 93	N/A
134	STATE	46 BOOREAM AVENUE G000025762/CLOSED	46 BOORAEM AVE JERSEY CITY NJ	0.35 NW	+ 93	N/A
133	STATE	156 NEW YORK AVENUE 436453/CLOSED	156 NEW YORK AVE JERSEY CITY NJ	0.35 NW	+ 100	N/A
134	VCP	46 BOOREAM AVENUE 90-02-05-1018/VCP	46 BOOREAM AVE JERSEY CITY NJ 07307	0.35 NW	+ 93	N/A
133	VCP	156 NEW YORK AVENUE 06-04-07-1625-35/VCP	156 NEW YORK AVE JERSEY CITY NJ	0.35 NW	+ 100	N/A
137	VCP	VAN LEER CHOCOLATE CORPORATION 94-06-17-2009-43/VCP	127 and 110 HOBOKEN AVE JERSEY CITY NJ 07030	0.35 SW	+ 2	N/A
141	LUST	HOBOKEN HOUSING AUTHORITY 99-06-29-1528-13/UNDERGROUND STORA	400 MARSHALL DR HOBOKEN NJ 07030	0.36 NE	+ 19	N/A
140	LUST	PISANI and DEBARI CONSTRUCTION 97-9-15-1603-31/U.S.T.,SOIL CONTAM	219 GRAND ST HOBOKEN NJ 07030	0.36 NE	0	N/A
140	LUST	PISANI and DEBARI CONSTRUCTION LU-97-09-15-1603-	219 GRAND ST HOBOKEN NJ 07030	0.36 NE	0	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
140	STATE	PISANI and DEBARI CONSTRUCTION 031931/ACTIVE	219 GRAND ST HOBOKEN CITY NJ 07030	0.36 NE	0	N/A
140	STATE	PISANI and DEBARI CONSTRUCTION NJL800349375/KCSNJ	219 GRAND ST HOBOKEN NJ 07030	0.36 NE	0	N/A
139	LUST	BETWEEN PALISADES AND WEBSTER 05-07-23-1410-07/TERMINATED	20 RESOVIER ST JERSEY CITY NJ	0.36 NW	+ 103	N/A
142	LUST	RESID 06-08-18-1054-04/TERMINATED	48 BOORAEM AVE JERSEY CITY NJ	0.36 NW	+ 95	N/A
138	LUST	RESIDENCE 07-02-22-1101-53/TERMINATED	162 NEW YORK AVE JERSEY CITY NJ	0.36 NW	+ 100	N/A
139	STATE	20 RESERVOIR AVENUE 262251/CLOSED	20 RESERVOIR AVE JERSEY CITY NJ	0.36 NW	+ 103	N/A
138	STATE	162 NEW YORK AVENUE 448490/ACTIVE	162 NEW YORK AVE JERSEY CITY NJ	0.36 NW	+ 100	N/A
142	VCP	48 BOORAEM AVENUE 06-08-18-1054-04/VCP	48 BOORAEM AVE JERSEY CITY NJ	0.36 NW	+ 95	N/A
138	VCP	162 NEW YORK AVENUE 07-02-22-1101-53/VCP	162 NEW YORK AVE JERSEY CITY NJ	0.36 NW	+ 100	N/A
143	VCP	166 NEW YORK AVENUE 03-01-09-1027-33/VCP	166 NEW YORK AVE JERSEY CITY NJ 07305	0.36 NW	+ 100	N/A
144	LUST	RESIDENCE 03-06-06-1423-28/TERMINATED	178 NEW YORK AVE JERSEY CITY NJ 07307	0.37 NW	+ 99	N/A
145	LUST	SISTER OF ST JOSEPH OF PEACE C 03-05-27-1326-06/TERMINATED	25 RESERVOIR AVE JERSEY CITY NJ 07302	0.37 NW	+ 109	N/A
145	STATE	SISTER OF SAINT JOSEPH OF PEAC 203743/CLOSED	25 RESERVOIR AVE JERSEY CITY NJ 07304	0.37 NW	+ 109	N/A
144	STATE	178 NEW YORK AVENUE 224831/CLOSED	178 NEW YORK AVE JERSEY CITY NJ	0.37 NW	+ 99	N/A
145	VCP	SISTER OF SAINT JOSEPH OF PEAC 03-05-27-1326-06/VCP	25 RESERVOIR AVE JERSEY CITY NJ 07304	0.37 NW	+ 109	N/A
147	LUST	OLIVERI AND SONS 96-10-30-1155-52/U.S.T.	619 MARIN BLVD JERSEY CITY NJ 07310	0.38 SE	0	N/A
148	LUST	R.NEUMANN and COMPANY 92-9-9-1008-01/L.U.S.T.	300 OBSERVER HWY HOBOKEN NJ 07030	0.38 SE	+ 2	N/A
148	LUST	R NEUMANN LU-92-09-09-1008/CMS	300 OBSERVER HWY HOBOKEN NJ 07030	0.38 SE	+ 2	N/A
148	LUST	R.NEUMANN 91-11-11-1205-27/L.U.S.T.	300 OBSERVER HWY HOBOKEN NJ 07030	0.38 SE	+ 2	N/A
147	LUST	A OLIVERI and SONS LU-96-10-30-1155-	619 LUIZ MUNOZ MARIN BLVD JERSEY CITY NJ 07310	0.38 SE	0	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
148	STATE	R NEUMANN and CO 014613/ACTIVE	300 OBSERVER HWY HOBOKEN CITY NJ 07030	0.38 SE	+ 2	N/A
146	STATE	301 NEWARK ST G000061038/ACTIVE	301 NEWARK ST HOBOKEN CITY NJ 07030	0.38 SE	+ 1	N/A
148	STATE	R NEUMANN and COMPANY NJD001479757/KCSNJ	300 OBSERVER HWY HOBOKEN NJ 07030	0.38 SE	+ 2	N/A
147	STATE	OLIVERI and SONS INCORPORATED NJL800264509/KCSNJ	619 LOUIS MUNOZ MARIN BLVD JERSEY CITY NJ 07310	0.38 SE	0	N/A
147	STATE	A OLIVERI and SONS INC 031556/ACTIVE	619 LOUIS MUNOZ MARIN BLVD JERSEY CITY NJ 07310	0.38 SE	0	N/A
148	VCP	R NEUMANN and COMPANY 92-09-09-1008/VCP	300 OBSERVER HWY HOBOKEN NJ 07030	0.38 SE	+ 2	N/A
149	LUST	VAN LEER CHOCOLATE 94-10-27-1213-48/U.S.T.	127 HOBOKEN AVE JERSEY CITY NJ 07310	0.38 SW	+ 2	N/A
149	STATE	VAN LEER CHOCOLATE CORP 005404/ACTIVE	127 TO 135 HOBOKEN AVE JERSEY CITY NJ 07302	0.38 SW	+ 2	N/A
149	STATE	VANLEER CHOCOLATE CORPORATION NJL800069957/KCSNJ	127 HOBOKEN AVE JERSEY CITY NJ 07310	0.38 SW	+ 2	N/A
154	STATE	THE MILL TWO 021498/PENDING	208 CLINTON ST HOBOKEN CITY NJ	0.39 NE	0	N/A
152	STATE	ALU TEXTILE COMBINING CORPORAT NJD980200422/KCSNJ	208 CLINTON ST HOBOKEN NJ 07030	0.39 NE	0	N/A
155	STATE	WORLDWIDE FINISHING INCORPORAT NJD981555717/KCSNJ	328 JEFFERSON ST HOBOKEN NJ 07030	0.39 NE	+ 5	N/A
155	STATE	WORLDWIDE FINISHING INCORPORAT G000005865/ACTIVE	328 JEFFERSON ST HOBOKEN NJ 07030	0.39 NE	+ 5	N/A
152	VCP	ALU TEXTILE 96-04-24-1748-03/VCP	208 CLINTON ST HOBOKEN NJ 07030	0.39 NE	0	N/A
151	LUST	PROPERTY AT 00-07-25-1454-03/UNDERGROUND STORA	423 PALISADE AVE JERSEY CITY NJ 07307	0.39 NW	+ 96	N/A
151	STATE	423 PALISADES AVE G000044717/CLOSED	423 PALISADES AVE JERSEY CITY NJ 07306	0.39 NW	+ 96	N/A
153	STATE	NEWPORT PLAZA G000061452/CLOSED	125-5 18TH ST JERSEY CITY NJ 07300	0.39 SE	- 3	N/A
153	VCP	NEWPORT PLAZA GATEWAY CLEANERS 01-01-26-1409-17/VCP	125-5 18TH ST JERSEY CITY NJ 46204	0.39 SE	- 3	N/A
150	LUST	RESIDENCE 01-12-17-1409-50/UNDERGROUND STORA	216 PALISADES AVE JERSEY CITY NJ 07306	0.39 SW	+ 102	N/A
150	LUST	RESIDENCE VACANT 02-01-10-1528-07/UNDERGROUND STORA	216 PALISADES AVE JERSEY CITY NJ 07306	0.39 SW	+ 102	N/A

Environmental FirstSearch
Sites Summary Report

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TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
150	STATE	216 PALISADES AVENUE 203511/ACTIVE	216 PALISADES AVE JERSEY CITY NJ 07303	0.39 SW	+ 102	N/A
150	VCP	216 PALISADE AVENUE 01-12-17-1409-50/VCP	216 PALISADE AVE JERSEY CITY NJ 08857	0.39 SW	+ 102	N/A
156	LUST	GRAND ADAMS APTS 94-2-4-1249-02/L.U.S.T.	300 GRAND ST HOBOKEN NJ 07030	0.40 NE	0	N/A
157	LUST	NATOLI ESTATE 96-4-9-1536-30/U.S.T.,SOIL CONTAMI	207 CLINTON ST HOBOKEN NJ 07030	0.40 NE	0	N/A
157	LUST	NATOLI ESTATE;ORTY TRANSMISSIO LU-96-04-09-1536-	207 CLINTON ST HOBOKEN NJ 07030	0.40 NE	0	N/A
156	STATE	GRAND ADAMS APARTMENTS NJL800056103/KCSNJ	300 GRAND ST HOBOKEN NJ 07030	0.40 NE	0	N/A
156	STATE	GRAND ADAMS APARTMENTS G000023125/ACTIVE	300 GRAND ST HOBOKEN CITY NJ 07030	0.40 NE	0	N/A
157	STATE	NATOLI ESTATE NJL800217143/KCSNJ	207 CLINTON ST HOBOKEN NJ 07030	0.40 NE	0	N/A
157	STATE	ORTIZ TRANSMISSION 023390/ACTIVE	207 CLINTON ST HOBOKEN CITY NJ 07030	0.40 NE	0	N/A
158	LUST	SALCOR REALTY COMPANY LU-97-11-21-0922-	195 NEW YORK AVE JERSEY CITY NJ 07307	0.40 NW	+ 98	N/A
158	LUST	SALCOR REALITY 97-11-21-0922-00/U.S.T.	195 NEW YORK AVE JERSEY CITY NJ 07307	0.40 NW	+ 98	N/A
158	STATE	SALCOR REALTY CO 032062/ACTIVE	195 NEW YORK AVE JERSEY CITY NJ 07307	0.40 NW	+ 98	N/A
158	STATE	SALCOR REALTY NJL800366098/KCSNJ	195 NEW YORK AVE JERSEY CITY NJ 07307	0.40 NW	+ 98	N/A
158	VCP	195 NEW YORK AVENUE (APT COMPL 98-06-18-1220-41/VCP	195 NEW YORK AVE JERSEY CITY NJ 07307	0.40 NW	+ 98	N/A
159	LUST	RESIDENCE 98-4-29-1009-43/L.U.S.T.	227 CLINTON ST HOBOKEN NJ 07030	0.41 NE	0	N/A
162	LUST	RESIDENCE 05-10-31-0936-02/TERMINATED	113 WILLOW AVE HOBOKEN CITY NJ 07030	0.41 NE	0	N/A
159	STATE	227 CLINTON STREET G000034844/CLOSED	227 CLINTON ST HOBOKEN CITY NJ	0.41 NE	0	N/A
159	STATE	227 CLINTON STREET NJL800401283/KCSNJ	227 CLINTON ST HOBOKEN NJ 07030	0.41 NE	0	N/A
160	STATE	333 JEFFERSON STREET 251373/CLOSED	333 JEFFERSON ST HOBOKEN NJ 07030	0.41 NE	+ 4	N/A
159	VCP	227 CLINTON STREET 98-04-29-1009-43/VCP	227 CLINTON ST HOBOKEN NJ 07030	0.41 NE	0	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
161	LUST	HOBOKEN MUNICIPAL GARAGE 03-08-26-1012-45/TERMINATED	256 OBSERVER HWY HOBOKEN CITY NJ	0.41 SE	+ 1	N/A
161	STATE	MUNICIPAL GARAGE 033150/ACTIVE	256 OBSERVER HWY HOBOKEN CITY NJ 07030	0.41 SE	+ 1	N/A
165	LUST	FACENDOLA FUEL COMPANY LU-96-01-02-1048-	324 GRAND ST HOBOKEN NJ 07030	0.42 NE	+ 1	N/A
171	LUST	VACANT BUILDING 05-02-28-1318-47/TERMINATED	461 4TH ST HOBOKEN CITY NJ	0.42 NE	+ 4	N/A
165	LUST	FACENDOLA FUEL CO 96-1-2-1048-15/U.S.T.	324 GRAND ST HOBOKEN NJ 07030	0.42 NE	+ 1	N/A
170	LUST	RESIDENCE 06-07-12-1150-21/TERMINATED	402 JEFFERSON ST HOBOKEN CITY NJ 07030	0.42 NE	+ 5	N/A
165	STATE	FACENDOLA FUEL CO 031095/CLOSED	324 GRAND ST HOBOKEN CITY NJ 07030	0.42 NE	+ 1	N/A
165	STATE	FACENDOLA FUEL COMPANY NJL800195877/KCSNJ	324 GRAND ST HOBOKEN NJ 07030	0.42 NE	+ 1	N/A
165	VCP	FACENDOLA FUEL CO 031095/VCP	324 GRAND ST HOBOKEN CITY NJ	0.42 NE	+ 1	N/A
169	LUST	RESIDENCE 01-07-06-1715-29/UNDERGROUND STORA	63 PROSPECT ST JERSEY CITY NJ 07306	0.42 NW	+ 111	N/A
167	STATE	WEBSTER HUTTON GROUP G000006165/CLOSED	126 WEBSTER AVE JERSEY CITY NJ	0.42 NW	+ 101	N/A
168	LUST	MERIT SERVICE STATION (MERIT H LU-87-07-30-1218	15TH ST and HENDERSON ST JERSEY CITY NJ 07310	0.42 SE	0	N/A
172	VCP	WILLOW and NEWARK LLC 05-05-17-1738-18/VCP	260 NEWARK AVE HOBOKEN NJ 07040	0.42 SE	0	N/A
163	LUST	AMOCO S/S 508 LU-92-08-24-0832	230 14TH ST JERSEY CITY NJ 07310	0.42 SW	0	N/A
166	LUST	SUNOCO STATION 6-9351 92-1-28-1722-12/L.U.S.T.	14TH ST and JERSEY AVE JERSEY CITY NJ 07310	0.42 SW	0	N/A
164	LUST	HOLLAND PLAZA BLDG LU-91-05-06-1438	215 14TH ST JERSEY CITY NJ 07310	0.42 SW	+ 1	N/A
166	LUST	SUNOCO S/S 006-9351 (JERSEY C LU-92-01-28-1722	14TH ST and JERSEY AVE JERSEY CITY NJ 07310	0.42 SW	0	N/A
163	LUST	AMOCO SERVICE 92-8-24-0832-00/L.U.S.T.	230 14TH ST JERSEY CITY NJ 07310	0.42 SW	0	N/A
164	LUST	OFFICE BLDG. 91-5-6-1438-19/L.U.S.T.	215 14TH ST JERSEY CITY NJ 07310	0.42 SW	+ 1	N/A
164	STATE	BARBARA FIELDING ENTERPRISES NJL800317935/KCSNJ	215 14TH ST JERSEY CITY NJ 07310	0.42 SW	+ 1	N/A

Environmental FirstSearch
Sites Summary Report

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Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
164	STATE	HOLLAND PLAZA BUILDING NJL600172829	215 14TH ST JERSEY CITY NJ 07310	0.42 SW	+ 1	N/A
163	STATE	BP SERVICE STATION 20503 000999/ACTIVE	230 14TH ST JERSEY CITY NJ 07097	0.42 SW	0	N/A
164	STATE	HOLLAND PLAZA BUILDING 027353/ACTIVE	215 14TH ST JERSEY CITY NJ	0.42 SW	+ 1	N/A
163	STATE	AMOCO SERVICE STATION JERSEY C NJP000884148/KCSNJ	230 14TH ST JERSEY CITY NJ 07310	0.42 SW	0	N/A
166	STATE	SUNOCO SERVICE STATION JERSEY NJD000697524/KCSNJ	14TH ST and JERSEY AVE JERSEY CITY NJ 07310	0.42 SW	0	N/A
166	STATE	SUNOCO 006-9351 016405/ACTIVE	14TH ST and JERSEY AVE JERSEY CITY NJ 07302	0.42 SW	0	N/A
164	VCP	BARBARA FIELDING ENTERPRISES L 97-07-23-0048-34/VCP	215 14TH ST JERSEY CITY NJ 07310	0.42 SW	+ 1	N/A
180	LUST	CONNDOMINIMUM ASSOC 92-10-19-1717-39/L.U.S.T.	423 JEFFERSON ST HOBOKEN NJ 07030	0.43 NE	+ 5	N/A
180	LUST	CONDOMINIMUM ASSOC LU-92-10-19-1717	423 JEFFERSON ST HOBOKEN NJ 07030	0.43 NE	+ 5	N/A
181	LUST	RESID 08-05-20-1449-29/TERMINATED	33 GRIFFITH ST JERSEY CITY NJ 07307	0.43 NW	+ 106	N/A
182	LUST	RESIDENCE 10-05-06-0953-30/TERMINATED	45 RAVINE AVE JERSEY CITY NJ 07307	0.43 NW	+ 101	N/A
175	LUST	RESIDENCE 06-07-31-1210-31/TERMINATED	74 BOORAEM AVE JERSEY CITY NJ 07307	0.43 NW	+ 108	N/A
173	LUST	RESIDENCE 08-03-20-1512-33/TERMINATED	18 SHERMAN AVE JERSEY CITY NJ 07307	0.43 NW	+ 100	N/A
175	STATE	74 BOORAEM AVENUE 301917/CLOSED	74 BOORAEM AVE JERSEY CITY NJ	0.43 NW	+ 108	N/A
173	STATE	18 SHERMAN AVENUE 477068/CLOSED	18 SHERMAN AVE JERSEY CITY NJ	0.43 NW	+ 100	N/A
175	VCP	74 BOORAEM AVENUE 06-07-31-1210-31/VCP	74 BOORAEM AVE JERSEY CITY NJ	0.43 NW	+ 108	N/A
179	LUST	SUNOCO SERVICE STATION 90-08-14-2336/LUST	14TH and GROVE ST JERSEY CITY NJ 07310	0.43 SE	+ 1	N/A
179	LUST	SUNOCO S/S 0006-9682 LU-90-08-14-2336	14TH and GROVE ST JERSEY CITY NJ 07310	0.43 SE	+ 1	N/A
174	LUST	RESIDENCE 06-05-08-1202-37/TERMINATED	258 NEWARK ST HOBOKEN CITY NJ 07030	0.43 SE	0	N/A
177	LUST	PARKING LOT LU-95-08-25-1513-	597 HENDERSON ST JERSEY CITY NJ 07310	0.43 SE	0	N/A

Environmental FirstSearch
Sites Summary Report

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TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
179	LUST	MOBIL SERVICE STATION 15KG2 LU-93-11-09-1719-	14TH and GROVE ST JERSEY CITY NJ 07310	0.43 SE	+ 1	N/A
179	LUST	MOBIL GAS STATION 98-1-15-1553-30/U.S.T.,SOIL CONTAM	14TH ST and GROVE ST JERSEY CITY NJ 07310	0.43 SE	+ 1	N/A
179	LUST	SUNOCO STATION 01-11-01-1011-45/UNDERGROUND STORA	14TH ST and GROVE ST JERSEY CITY NJ 07310	0.43 SE	+ 1	N/A
177	LUST	HOLLAND TUNNEL EXXON 90-09-05-1321/LUST	597 HENDERSON ST JERSEY CITY NJ 07310	0.43 SE	0	N/A
176	LUST	EXXON STATION 38398 91-8-15-1243-28/L.U.S.T.	202 14TH ST JERSEY CITY NJ 07310	0.43 SE	+ 2	N/A
177	LUST	EXXON SERVICE STATION 3-1334 LU-90-09-05-1321	597 HENDERSON ST JERSEY CITY NJ 07310	0.43 SE	0	N/A
179	LUST	MOBIL STATION 15 KING GEO. 2 93-11-9-1719-28/L.U.S.T./ODORS	14TH ST and GROVE ST JERSEY CITY NJ 07310	0.43 SE	+ 1	N/A
176	LUST	EXXON SERVICE STATION JERSEY C LU-91-08-15-1243	202 14TH ST JERSEY CITY NJ 07310	0.43 SE	+ 2	N/A
177	LUST	FORMER EXXON STATION 31334, A 08-10-07-1056-33/CONTINUOUS	597 LEWIS MUNOZ-MARIN BLVD JERSEY CITY NJ	0.43 SE	0	N/A
179	STATE	SUNOCO 0006-9682 014823/ACTIVE	14TH and GROVE STS JERSEY CITY NJ 07303	0.43 SE	+ 1	N/A
177	STATE	EXXON SERVICE STATION JERSEY C NJD986582666/KCSNJ	597 HENDERSON ST JERSEY CITY NJ 07310	0.43 SE	0	N/A
179	STATE	MOBIL SERVICE STATION JERSEY C NJL600024640/KCSNJ	14TH ST and GROVE ST JERSEY CITY NJ 07310	0.43 SE	+ 1	N/A
179	STATE	SUNOCO SERVICE STATION JERSEY NJD000697540/KCSNJ	14TH and GROVE ST JERSEY CITY NJ 07310	0.43 SE	+ 1	N/A
179	STATE	NEWPORT VALERO 003777/ACTIVE	14TH and GROVE STS JERSEY CITY NJ 07302	0.43 SE	+ 1	N/A
177	STATE	EXXON R/S 31334 008384/ACTIVE	597 LUIS MUNOZ MARIN BLVD JERSEY CITY NJ	0.43 SE	0	N/A
174	STATE	258 NEWARK STREET 290090/CLOSED	258 NEWARK ST HOBOKEN CITY NJ	0.43 SE	0	N/A
176	STATE	EXXON R/S 3-8398 008652/ACTIVE	202 14TH ST JERSEY CITY NJ 07300	0.43 SE	+ 2	N/A
176	STATE	EXXON SERVICE STATION JERSEY C NJD986608255/KCSNJ	202 14TH ST JERSEY CITY NJ 07310	0.43 SE	+ 2	N/A
174	VCP	258 NEWARK STREET 06-05-08-1202-37/VCP	258 NEWARK ST HOBOKEN CITY NJ	0.43 SE	0	N/A
183	ENGCONTROL	BARBARA FIELDING ENT. DNA-394/DEED NOTICE EXTENT	215 FOURTEENTH ST JERSEY CITY NJ	0.43 SW	N/A	N/A

Environmental FirstSearch
Sites Summary Report

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TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
178	STATE	HERMANS TRUCK PARTS NJL000051409/KCSNJ	252 COLES ST JERSEY CITY NJ 07310	0.43 SW	0	N/A
178	STATE	HERMANS TRUCK PARTS G000010067/PENDING	252 COLES ST JERSEY CITY NJ	0.43 SW	0	N/A
195	LUST	VACANT LOT 01-08-06-1128-38/UNDERGROUND STORA	3RD ST and CLINTON ST HOBOKEN NJ 07030	0.44 NE	0	N/A
186	LUST	RESID 07-04-25-1405-33/TERMINATED	83 FRANKLIN ST JERSEY CITY NJ	0.44 NW	+ 99	N/A
189	LUST	RESIDENCE AT 06-05-18-1624-52/TERMINATED	219 NEW YORK AVE JERSEY CITY NJ	0.44 NW	+ 101	N/A
190	LUST	ACHAIA INC 00-05-31-1324-29/UNDERGROUND STORA	7 SHERMAN AVE JERSEY CITY NJ 07307	0.44 NW	+ 101	N/A
191	LUST	RESID 00-06-16-1447-38/UNDERGROUND STORA	51 RESERVIOR AVE JERSEY CITY NJ 07307	0.44 NW	+ 120	N/A
184	STATE	51 RESERVIOR AVE G000044319/CLOSED	51 RESERVOIR AVE JERSEY CITY NJ	0.44 NW	+ 120	N/A
186	STATE	83 FRANKLIN STREET 454503/CLOSED	83 FRANKLIN ST JERSEY CITY NJ	0.44 NW	+ 99	N/A
189	STATE	RED STAR PROPERTIES 296816/CLOSED	219 NEW YORK AVE JERSEY CITY NJ	0.44 NW	+ 101	N/A
187	STATE	AMPCO PACKAGING INCORPORATED G000011940/CLOSED	225 NEW YORK AVE JERSEY CITY NJ	0.44 NW	+ 101	N/A
185	LUST	CONSTRUCTION SITE LU-98-08-24-1127-	57 PARK AVE HOBOKEN NJ 07030	0.44 SE	0	N/A
188	LUST	MERIT GAS STATION 91-12-16-1130-09/L.U.S.T.	590 HENDERSON ST JERSEY CITY NJ 07310	0.44 SE	0	N/A
188	LUST	MERIT HENDERSON STATION 92-1-3-1531-19/LUST	590 HENDERSON ST JERSEY CITY NJ 07310	0.44 SE	0	N/A
188	LUST	MERIT OIL CO 93-3-23-1125-49/LUST,SOIL CONTAMIN	590 HENDERSON ST JERSEY CITY NJ 07310	0.44 SE	0	N/A
185	STATE	57 PARK AVENUE NJL800312159/KCSNJ	57 PARK AVE HOBOKEN NJ 07030	0.44 SE	0	N/A
188	STATE	MERIT OIL COMPANY OF NJ NJD982270571/KCSNJ	590 LUIS MUNOZ MARIN BLVD JERSEY CITY NJ 07310	0.44 SE	0	N/A
188	STATE	HESS STATION 30503 009109/ACTIVE	590 LOUIS MUNOZ MARIN BLVD JERSEY CITY NJ 07303	0.44 SE	0	N/A
185	STATE	57 PARK AVENUE G000031840/CLOSED	57 PARK AVE HOBOKEN CITY NJ	0.44 SE	0	N/A
185	VCP	57 PARK AVENUE 97-06-14-0222-16/VCP	57 PARK AVE HOBOKEN NJ 07030	0.44 SE	0	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
193	LUST	SWENSEN REALTY 99-07-26-1032-19/UNDERGROUND STORA	37 WAVERLY ST JERSEY CITY NJ 07306	0.44 SW	+ 109	N/A
192	LUST	RESIDENCE 10-08-31-1348-16/TERMINATED	24 JEFFERSON AVE JERSEY CITY NJ 07306	0.44 SW	+ 105	N/A
194	LUST	THE SALVATION ARMY LU-0802-1128	248 ERIE ST JERSEY CITY NJ 07310	0.44 SW	+ 1	N/A
202	LUST	FORMER GASSTATION 01-01-26-1247-51/UNDERGROUND STORA	314 CLINTON ST HOBOKEN NJ 07030	0.45 NE	0	N/A
199	LUST	RESID 95-8-1-1144-28/U.S.T.	258 2ND ST HOBOKEN NJ 07030	0.45 NE	0	N/A
202	LUST	MIDTOWN PARKING GARAGE LU-01-01-26-1247-	314 CLINTON AVE HOBOKEN NJ 07030	0.45 NE	0	N/A
199	STATE	258 SECOND STREET G000025492/CLOSED	258 2ND ST HOBOKEN CITY NJ	0.45 NE	0	N/A
199	STATE	258 SECOND STREET NJL800162471	258 2ND ST HOBOKEN NJ 07030	0.45 NE	0	N/A
198	LUST	RESIDENCE AT 96-10-25-1239-36/U.S.T.	25 SHERMAN AVE JERSEY CITY NJ 07307	0.45 NW	+ 100	N/A
201	STATE	INCHEMEX CORPORATION G000001187/CLOSED	44 SHERMAN AVE JERSEY CITY NJ	0.45 NW	+ 100	N/A
198	STATE	25 SHERMAN AVENUE NJL800263402	25 SHERMAN AVE JERSEY CITY NJ 07307	0.45 NW	+ 100	N/A
198	STATE	25 SHERMAN AVENUE G000030069/CLOSED	25 SHERMAN AVE JERSEY CITY NJ	0.45 NW	+ 100	N/A
198	VCP	25 SHERMAN AVENUE (APARTMENT) 96-10-25-1239-36/VCP	25 SHERMAN AVE JERSEY CITY NJ 07300	0.45 NW	+ 100	N/A
196	LUST	RESID 07-01-23-1250-04/CONTINUOUS	188 PALISADES AVE JERSEY CITY NJ	0.45 SW	+ 102	N/A
203	LUST	PORT AUTHORITY TECHNICAL CENTE LU-0502-207	241 ERIE ST JERSEY CITY NJ 07310	0.45 SW	+ 1	N/A
200	LUST	RESIDENTIAL 10-09-03-1616-03/TERMINATED	500 BALDWIN AVE JERSEY CITY NJ 07306	0.45 SW	+ 112	N/A
197	LUST	RESIDENCE 05-04-11-1559-56/TERMINATED	23 JEFFERSON AVE JERSEY CITY NJ	0.45 SW	+ 105	N/A
196	STATE	188 PALISADE AVENUE 447790/ACTIVE	188 PALISADE AVE JERSEY CITY NJ	0.45 SW	+ 102	N/A
200	STATE	500 TO 502 BALDWIN STREET NJL800419426/KCSNJ	500 BALDWIN ST JERSEY CITY NJ 07306	0.45 SW	+ 112	N/A
197	STATE	23 JEFFERSON AVENUE 257883/CLOSED	23 JEFFERSON AVE JERSEY CITY NJ	0.45 SW	+ 105	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
200	STATE	500 TO 502 BALDWIN STREET G000035632/ACTIVE	500 TO 502 BALDWIN ST JERSEY CITY NJ 07306	0.45 SW	+ 112	N/A
200	VCP	500-502 BALDWIN ST (APT COMPLE 98-06-23-1042-59/VCP	500 BALDWIN ST JERSEY CITY NJ	0.45 SW	+ 112	N/A
196	VCP	188 PALISADE AVENUE 07-01-23-1250-04/VCP	188 PALISADE AVE JERSEY CITY NJ	0.45 SW	+ 102	N/A
197	VCP	23 JEFFERSON AVENUE 05-04-11-1559-56/VCP	23 JEFFERSON AVE JERSEY CITY NJ 07037	0.45 SW	+ 105	N/A
208	LUST	FORMER SERVICE STATION 03-01-31-1644-50/TERMINATED	503 MONROE ST HOBOKEN CITY NJ 07030	0.46 NE	+ 8	N/A
207	LUST	AT 06-09-21-1213-08/TERMINATED	501 JACKSON ST HOBOKEN CITY NJ 07030	0.46 NE	+ 12	N/A
207	LUST	AREA OF 06-07-10-1136-47/TERMINATED	501 JACKSON ST HOBOKEN CITY NJ	0.46 NE	+ 12	N/A
207	STATE	FIFTH STREET CONDOS LLC 290304/ACTIVE	501 JACKSON ST HOBOKEN CITY NJ	0.46 NE	+ 12	N/A
208	STATE	FORMER SERVICE STATION 95034/PENDING	503 MONROE ST HOBOKEN CITY NJ 07030	0.46 NE	+ 8	N/A
207	VCP	FIFTH STREET CONDOS LLC (FORME 06-03-11-0200-16/VCP	501 JACKSON ST HOBOKEN NJ 07024	0.46 NE	+ 12	N/A
204	LUST	RESID 08-04-02-1100-38/TERMINATED	61 RESERVOIR AVE JERSEY CITY NJ 07306	0.46 NW	+ 119	N/A
205	LUST	RESIDENCE 10-05-21-1218-53/TERMINATED	75 PROSPECT ST JERSEY CITY NJ 07306	0.46 NW	+ 117	N/A
204	STATE	61 RESERVOIR AVENIE 479450/CLOSED	61 RESERVOIR AVE JERSEY CITY NJ	0.46 NW	+ 119	N/A
205	STATE	75 PROSPECT STREET 548512/CLOSED	75 PROSPECT ST JERSEY CITY NJ 07306	0.46 NW	+ 117	N/A
206	LUST	SHELL SERVICE STATION LU-89-08-10-1010	210 14TH ST JERSEY CITY NJ 07310	0.46 SE	0	N/A
206	LUST	SHELL SERVICE STA. 92-12-3-1423-06/L.U.S.T.	210 14TH ST JERSEY CITY NJ 07310	0.46 SE	0	N/A
206	LUST	FORMER GAS STATION 04-03-31-1048-11/TERMINATED	210 14TH ST JERSEY CITY NJ	0.46 SE	0	N/A
206	LUST	SHELL SERVICE STATION 138388 LU-0502-3529/AA	14TH and HENDERSON JERSEY CITY NJ 07310	0.46 SE	0	N/A
206	LUST	SHELL SERVICE STATION JERSEY C LU-00-09-15-1649-/AA	14TH HENDERSON JERSEY CITY NJ 07310	0.46 SE	0	N/A
206	LUST	SHELL STATION 00-09-15-1649-03/UNDERGROUND STORA	14TH ST and HENDERSON ST JERSEY CITY NJ 07310	0.46 SE	0	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
206	LUST	SHELL SERVICE STATION 138386 03-06-06-1237-24/TERMINATED	210 14TH ST JERSEY CITY NJ	0.46 SE	0	N/A
206	STATE	CLK OPERATING INC 004753/ACTIVE	210 14TH ST JERSEY CITY NJ 07303	0.46 SE	0	N/A
206	STATE	SHELL SERVICE STATION JERSEY C NJD986594190/KCSNJ	210 14TH ST JERSEY CITY NJ 07310	0.46 SE	0	N/A
209	STATE	WILLOW and NEWARK LLC 241064/CLOSED	260 NEWARK AKA 89 WILLOW ST HOBOKEN CITY NJ 07030	0.46 SE	0	N/A
211	LUST	SAINT MARY S HOSPITAL 95-3-17-1356-37/U.S.T.,SOIL CONTAM	308 WILLOW AVE HOBOKEN NJ 07030	0.47 NE	+ 1	N/A
213	LUST	RESIDENCE 09-11-10-1321-11/TERMINATED	525 JACKSON ST HOBOKEN NJ 07030	0.47 NE	+ 12	N/A
211	LUST	SAINT MARY S HOSPITAL LU-95-03-17-1356	308 WILLOW AVE HOBOKEN NJ 07030	0.47 NE	+ 1	N/A
211	STATE	ST MARYS HOSPITAL 034087/ACTIVE	308 WILLOW AVE HOBOKEN NJ 07030	0.47 NE	+ 1	N/A
211	STATE	ST MARY HOSPITAL 016997/CLOSED	308 WILLOW AVE HOBOKEN NJ 07030	0.47 NE	+ 1	N/A
212	LUST	RESIDENCE 09-06-19-1600-47/TERMINATED	78 SHERMAN AVE JERSEY CITY NJ 07307	0.47 NW	+ 104	N/A
210	LUST	CHRIST HOSPITAL LU-97-06-24-1753-	176 PALISADE AVE JERSEY CITY NJ 07306	0.47 SW	+ 102	N/A
210	LUST	CHRIST HOSPITAL 97-6-24-1753-01/U.S.T.	176 PALISADE AVE JERSEY CITY NJ 07306	0.47 SW	+ 102	N/A
210	STATE	CHRIST HOSPITAL 017196/CLOSED	176 PALISADE AVE JERSEY CITY NJ	0.47 SW	+ 102	N/A
219	LUST	MICHEAL ARAM INC 97-3-20-1859-22/U.S.T.	511 MADISON ST HOBOKEN NJ 07030	0.48 NE	+ 10	N/A
215	LUST	RESIDENCE 07-01-26-1826-33/TERMINATED	415 ADAMS ST HOBOKEN NJ 07030	0.48 NE	+ 8	N/A
214	LUST	RESIDENCE AT 99-03-24-1349-27/UNDERGROUND STORA	202 PARK AVE HOBOKEN NJ 07030	0.48 NE	+ 1	N/A
219	STATE	WHAT A TEE INCORPORATED NJL500046016/KCSNJ	511 MADISON ST HOBOKEN NJ 07030	0.48 NE	+ 10	N/A
219	STATE	MICHAEL ARAN INC 031743/ACTIVE	511 MADISON ST HOBOKEN CITY NJ 07030	0.48 NE	+ 10	N/A
214	STATE	202 PARK AVENUE G000038558/CLOSED	202 PARK AVE HOBOKEN CITY NJ	0.48 NE	+ 1	N/A
215	STATE	415 ADAMS STREET 451511/CLOSED	415 ADAMS ST HOBOKEN NJ 07030	0.48 NE	+ 8	N/A

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Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
219	STATE	MICHAEL ARAM INCORPORATED NJL800295776	511 MADISON ST HOBOKEN NJ 07030	0.48 NE	+ 10	N/A
220	SWL	ST MARY S HOSPITAL 0905001077/CLOSED	308 WILLOW AVE HOBOKEN NJ 07030	0.48 NE	0	N/A
214	VCP	202 PARK AVENUE 99-03-24-1349-27/VCP	202 PARK AVE HOBOKEN NJ 07621	0.48 NE	+ 1	N/A
216	LUST	RESIDENCE 00-10-24-1143-09/UNDERGROUND STORA	471 PALISADE AVE JERSEY CITY NJ 07307	0.48 NW	+ 110	N/A
218	LUST	PUBLIC SCHOOL 8 97-8-11-1617-31/U.S.T.	96 FRANKLIN ST JERSEY CITY NJ 07307	0.48 NW	+ 101	N/A
218	LUST	JERSEY CITY PUBLIC SCHOOL 8 LU-97-08-11-1617-	96 FRANKLIN ST JERSEY CITY NJ 07307	0.48 NW	+ 101	N/A
218	LUST	PUBLIC SCHOOL 8 97-11-7-0927-43/U.S.T.	96 FRANKLIN ST JERSEY CITY NJ 07307	0.48 NW	+ 101	N/A
218	STATE	JERSEY CITY SCHOOL 8 016026/ACTIVE	96 FRANKLIN ST JERSEY CITY NJ 07307	0.48 NW	+ 101	N/A
216	STATE	471 PALISADES AVE G000060285/PENDING	471 PALISADES AVE JERSEY CITY NJ 07306	0.48 NW	+ 110	N/A
216	STATE	471 PALISADES AVE NJL800609067/KCSNJ	471 PALISADE AVE JERSEY CITY NJ 07307	0.48 NW	+ 110	N/A
218	STATE	JERSEY CITY PUBLIC SCHOOL 8 NJL800338535/KCSNJ	96 FRANKLIN ST JERSEY CITY NJ 07307	0.48 NW	+ 101	N/A
221	ENGCONTROL	OBSERVER HIGHWAY REDEVELOPMENT DNA-408/DEED NOTICE EXTENT	OBSERVER HWY. HOBOKEN CITY NJ	0.48 SE	N/A	N/A
217	LUST	JONES RESIDENCE 96-10-25-1510-21/U.S.T.	94 GARDEN ST HOBOKEN NJ 07030	0.48 SE	+ 1	N/A
217	STATE	94 GARDEN STREET G000030068/CLOSED	94 GARDEN ST HOBOKEN CITY NJ	0.48 SE	+ 1	N/A
217	STATE	94 GARDEN STREET NJL800263394	94 GARDEN ST HOBOKEN NJ 07030	0.48 SE	+ 1	N/A
217	VCP	94 GARDEN STREET 96-10-25-1510-21/VCP	94 GARDEN ST HOBOKEN NJ 07030	0.48 SE	+ 1	N/A
224	ENGCONTROL	WHAT-A-TEE INC. DNA-442/DEED NOTICE EXTENT	511 MADISON ST HOBOKEN CITY NJ	0.49 NE	N/A	N/A
223	LUST	RESIDENCE 07-04-09-1018-53/TERMINATED	419 ADAMS ST HOBOKEN NJ 07030	0.49 NE	+ 9	N/A
222	STATE	515 517 JEFFERSON STREET 257548/ACTIVE	515 JEFFERSON ST HOBOKEN CITY NJ 07030	0.49 NE	+ 10	N/A
225	VCP	MECCA AND SONS TRUCKING 00-12-20-0135-49/VCP	580 MARIN and 130-150 12TH JERSEY CITY NJ 75206	0.49 SE	0	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
230	LUST	CHURCH TOWERS APTS 00-03-25-0711-22/UNDERGROUND STORA	4TH ST and CLINTON ST HOBOKEN NJ 07030	0.50 NE	+ 2	N/A
226	LUST	VACANT BUILDING 95-9-28-1340-25/U.S.T.,SOIL CONTAM	530 MADISON ST HOBOKEN NJ 07030	0.50 NE	+ 12	N/A
229	LUST	AT 05-05-24-1050-10/TERMINATED	515 JEFFERSON ST HOBOKEN CITY NJ	0.50 NE	+ 11	N/A
226	STATE	530 TO 532 MADISON ST G000027072/PENDING	530 TO 532 MADISON ST HOBOKEN CITY NJ 07030	0.50 NE	+ 12	N/A
229	VCP	515-517 JEFFERSON STREET 05-05-24-1050-10/VCP	515 JEFFERSON ST HOBOKEN NJ 07090	0.50 NE	+ 11	N/A
226	VCP	530 MADISON AVENUE 95-09-28-1340-25/VCP	530 MADISON ST HOBOKEN NJ 07030	0.50 NE	+ 12	N/A
228	LUST	RESID 03-12-04-1105-27/TERMINATED	94 SHERMAN AVE JERSEY CITY NJ	0.50 NW	+ 106	N/A
228	STATE	94 SHERMAN AVENUE 217136/PENDING	94 SHERMAN AVE JERSEY CITY NJ 07307	0.50 NW	+ 106	N/A
227	STATE	58A JEFFERSON AVENUE 292642/CLOSED	58 JEFFERSON AVE JERSEY CITY NJ	0.50 SW	+ 108	N/A
227	STATE	58 5 JEFFERSON AVENUE 283201/PENDING	585 JEFFERSON AVE JERSEY CITY NJ	0.50 SW	+ 108	N/A
231	STATE	313 WILLOW AVENUE 302529/CLOSED	313 WILLOW AVE HOBOKEN NJ 07030	0.51 NE	0	N/A
232	STATE	93 SHERMAN AVENUE 282959/ACTIVE	93 SHERMAN AVE JERSEY CITY NJ	0.51 NW	+ 107	N/A
236	STATE	508 GRAND STREET 214157/ACTIVE	508 GRAND ST HOBOKEN CITY NJ 07030	0.52 NE	+ 9	N/A
234	STATE	312 PARK AVE 189675/PENDING	312 PARK AVE HOBOKEN NJ 07030	0.52 NE	0	N/A
235	STATE	36 HANCOCK AVENUE 190462/ACTIVE	36 HANCOCK AVE JERSEY CITY NJ 07307	0.52 NW	+ 106	N/A
237	STATE	LESZCZNYSKI AUTO REPAIR FORMER 187898/ACTIVE	267 NEW YORK AVE JERSEY CITY NJ 07302	0.52 NW	+ 109	N/A
238	STATE	UNION COLD STORAGE TERMINAL G000011692/PENDING	130 12TH ST JERSEY CITY NJ	0.52 SW	+ 2	N/A
233	STATE	30 BEACON AVENUE 424633/CLOSED	30 BEACON AVE JERSEY CITY NJ	0.52 SW	+ 101	N/A
240	STATE	214 WEBSTER AVENUE 442830/CLOSED	214 WEBSTER AVE JERSEY CITY NJ	0.53 NW	+ 107	N/A
239	STATE	123 FRANKLIN ST 172508/CLOSED	123 FRANKLIN ST JERSEY CITY NJ 07305	0.53 NW	+ 104	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
243	STATE	GROVE STREET WAREHOUSE PROPERT G000033706/CLOSED	575 MANILA AVE JERSEY CITY NJ	0.53 SE	+ 6	N/A
241	STATE	25 BEACON AVENUE 332576/ACTIVE	25 BEACON AVE JERSEY CITY NJ	0.53 SW	+ 100	N/A
242	STATE	HOLLAND LLC 003974/ACTIVE	235 12TH ST JERSEY CITY NJ 07310	0.53 SW	+ 5	N/A
242	STATE	AMOCO SERVICE STATION JERSEY C NJL600025993/KCSNJ	235 12TH ST JERSEY CITY NJ 07310	0.53 SW	+ 5	N/A
244	STATE	HOLLAND HOTEL (FORMER) 236534/ACTIVE	180 12TH ST JERSEY CITY NJ	0.53 SW	+ 1	N/A
249	STATE	600 MONROE STREET G000023327/CLOSED	600 MONROE ST HOBOKEN NJ 07030	0.54 NE	+ 14	N/A
251	STATE	HOBOKEN AUTO BODY INCORPORATED 220987/ACTIVE	600 JACKSON ST HOBOKEN CITY NJ 07030	0.54 NE	+ 12	N/A
247	STATE	343 OGDEN AVENUE 248387/CLOSED	343 OGDEN AVE JERSEY CITY NJ	0.54 NW	+ 88	N/A
246	STATE	197 WEBSTER AVENUE 535426/CLOSED	197 WEBSTER AVE JERSEY CITY NJ 07307	0.54 NW	+ 108	N/A
250	STATE	CUMBERLAND GULF 120218 006313/ACTIVE	183 12TH and GROVE ST JERSEY CITY NJ 07302	0.54 SE	+ 6	N/A
250	STATE	GULF SERVICE STATION JERSEY CI NJL600191746/KCSNJ	183 12TH ST JERSEY CITY NJ 07310	0.54 SE	+ 6	N/A
245	STATE	141 PALISADE AVENUE NJL800438194/KCSNJ	141 PALISADE AVE JERSEY CITY NJ 07306	0.54 SW	+ 75	N/A
248	STATE	42 BEACON AVENUE 517282/CLOSED	42 BEACON AVE JERSEY CITY NJ 07306	0.54 SW	+ 101	N/A
245	STATE	141 PALISADE AVENUE G000036532/PENDING	141 PALISADE AVE JERSEY CITY NJ	0.54 SW	+ 75	N/A
257	STATE	NORTHVALE 3A APARTMENTS 021161/ACTIVE	130 BLOOMFIELD ST HOBOKEN NJ 07030	0.55 NE	+ 9	N/A
255	STATE	HANKS SERVICE CENTER INC 005683/ACTIVE	530 GRAND ST HOBOKEN CITY NJ 07030	0.55 NE	+ 9	N/A
254	STATE	EAST DANMARK PARTNERS LLC 223426/KCSNJ	605 JACKSON ST HOBOKEN NJ 07030	0.55 NE	+ 14	N/A
256	STATE	K2 GLOBAL PROPERTIES HOBOKEN 513126/CLOSED	259 4TH ST HOBOKEN NJ 07030	0.55 NE	+ 2	N/A
253	STATE	265 FOURTH STREET 332969/CLOSED	265 4TH ST HOBOKEN CITY NJ	0.55 NE	+ 2	N/A
255	STATE	HANKS SERVICE CENTER INCORPORA NJL800223109/KCSNJ	530 GRAND ST HOBOKEN NJ 07030	0.55 NE	+ 9	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
252	STATE	HOLLAND TUNNEL NJD980648521/KCSNJ	13TH ST and PROVOST ST JERSEY CITY NJ 07310	0.55 SE	+ 1	N/A
252	STATE	PORT AUTHORITY OF NY and NJ 004439/ACTIVE	13TH and PROVOST STS JERSEY CITY NJ 07310	0.55 SE	+ 1	N/A
252	STATE	13TH STREET and PROVOST STREET NJL840001564/KCSNJ	13TH ST and PROVOST ST JERSEY CITY NJ 07310	0.55 SE	+ 1	N/A
252	STATE	SPORT AUTHORITY OF NY and NJ H NJL800029332/KCSNJ	13TH ST and PROVOST ST JERSEY CITY NJ 07310	0.55 SE	+ 1	N/A
258	STATE	WALTON TERMINAL 016808/CLOSED	310 12TH ST JERSEY CITY NJ	0.55 SW	+ 4	N/A
258	STATE	WALTON TERMINAL NJL600242952/KCSNJ	310 12TH ST JERSEY CITY NJ 07302	0.55 SW	+ 4	N/A
262	STATE	532 ADAMS STREET 282874/ACTIVE	532 ADAMS ST HOBOKEN NJ 07030	0.56 NE	+ 13	N/A
261	STATE	530 ADAMS STREET 268099/ACTIVE	530 ADAMS ST HOBOKEN NJ 07030	0.56 NE	+ 13	N/A
265	STATE	THERESA APARTMENTS NJL800171001/KCSNJ	308 GARDEN ST HOBOKEN NJ 07030	0.56 NE	+ 1	N/A
265	STATE	THERESA APARTMENTS G000026878/CLOSED	308 GARDEN ST HOBOKEN NJ 07030	0.56 NE	+ 1	N/A
259	STATE	134 SHERMAN AVENUE 261299/CLOSED	134 SHERMAN AVE JERSEY CITY NJ	0.56 NW	+ 107	N/A
263	STATE	72 HUTTON STREET 461612/CLOSED	72 HUTTON ST JERSEY CITY NJ	0.56 NW	+ 108	N/A
266	STATE	UNION TERMINAL COLD STORAGE NJL000071845	130 12TH ST JERSEY CITY NJ 07310	0.56 SE	+ 3	N/A
266	STATE	UNION COLD STORAGE TERMINAL NJ0000182899/KCSNJ	130 12TH ST JERSEY CITY NJ 07310	0.56 SE	+ 3	N/A
264	STATE	SPICE MARKET INC 000095/CLOSED	66 LAIDLAW AVE JERSEY CITY NJ	0.56 SW	+ 100	N/A
260	STATE	19 HOPKINS AVENUE 283734/CLOSED	19 HOPKINS AVE JERSEY CITY NJ	0.56 SW	+ 94	N/A
269	STATE	SHELL SERVICE STATION 138388 004709/ACTIVE	164 14TH ST JERSEY CITY NJ 07302	0.57 SE	0	N/A
268	STATE	HUDSON COUNTY CHROMATE 95 476457/CLOSED	PROVOST and PAVONIA AVE JERSEY CITY NJ	0.57 SE	+ 4	N/A
268	STATE	NEWPORT FINANCIAL CENTER 013503/CLOSED	PROVOST and PAVONIA AVE JERSEY CITY NJ	0.57 SE	+ 4	N/A
267	STATE	50 BEACON AVENUE 236029/CLOSED	50 BEACON AVE JERSEY CITY NJ	0.57 SW	+ 100	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
272	STATE	145 SHERMAN AVENUE 253774/CLOSED	145 SHERMAN AVE JERSEY CITY NJ	0.58 NW	+ 111	N/A
270	STATE	102 104 WASHINGTON STREET COND 484169/CLOSED	102 WASHINGTON ST HOBOKEN NJ 07030	0.58 SE	+ 12	N/A
274	STATE	NATIONAL COLD STORAGE 016823/PENDING	MONMOUTH and 12TH ST JERSEY CITY NJ	0.58 SW	0	N/A
274	STATE	NATIONAL COLD STORAGE NJL600182810	215 COLES ST JERSEY CITY NJ 07310	0.58 SW	0	N/A
273	STATE	NATIONAL COLD STORAGE NJL800132565/KCSNJ	12TH ST and MONMOUTH ST JERSEY CITY NJ 07310	0.58 SW	+ 1	N/A
271	STATE	121 PALISADES AVENUE 255143/PENDING	121 PALISADES AVE JERSEY CITY NJ 07306	0.58 SW	+ 62	N/A
275	STATE	207 4TH STREET 420651/CLOSED	207 4TH ST HOBOKEN CITY NJ	0.59 NE	+ 3	N/A
281	STATE	HOPES 235097/ACTIVE	301 GARDEN ST HOBOKEN NJ 07030	0.59 NE	+ 5	N/A
279	STATE	616 MADISON STREET 526975/CLOSED	616 MADISON ST HOBOKEN NJ 07030	0.59 NE	+ 18	N/A
277	STATE	52 CAMBRIDGE AVENUE G000034223/CLOSED	52 CAMBRIDGE AVE JERSEY CITY NJ	0.59 NW	+ 110	N/A
276	STATE	212 CENTRAL AVENUE G000044965/CLOSED	212 CENTRAL AVE JERSEY CITY NJ	0.59 NW	+ 111	N/A
278	STATE	528 PALISADES AVE G000041597/PENDING	528 PALISADES AVE JERSEY CITY NJ 07306	0.59 NW	+ 99	N/A
278	STATE	528 PALISADES AVE NJL800536609/KCSNJ	528 PALISADE AVE JERSEY CITY NJ 07307	0.59 NW	+ 99	N/A
280	STATE	89 TO 91 WASHINGTON STREET G000026736/CLOSED	89 WASHINGTON ST HOBOKEN NJ 07030	0.59 SE	+ 10	N/A
280	STATE	89 TO 91 WASHINGTON STREET NJL800150039	89 WASHINGTON ST HOBOKEN NJ 07030	0.59 SE	+ 10	N/A
284	STATE	SERVICE STATION HOBOKEN CITY NJL800109209/KCSNJ	632 ADAMS ST HOBOKEN NJ 07030	0.60 NE	+ 12	N/A
284	STATE	ADANS SERVICE STATION 030337/ACTIVE	632 ADAMS ST HOBOKEN CITY NJ 07030	0.60 NE	+ 12	N/A
282	STATE	114 WAVERLY STREET 228795/CLOSED	114 WAVERLY ST JERSEY CITY NJ 07306	0.60 NW	+ 108	N/A
283	STATE	178 CENTRAL AVENUE 216299/CLOSED	178 CENTRAL AVE JERSEY CITY NJ 07306	0.60 NW	+ 111	N/A
287	STATE	HUDSON COUNTY CHROMATE 38 G000008666/CLOSED	51 CAMBRIDGE AVE JERSEY CITY NJ	0.60 NW	+ 111	N/A

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285	STATE	EDWARDS SUPER FOOD STORE 143 019847/CLOSED	232 CENTRAL AVE JERSEY CITY NJ	0.60 NW	+ 108	N/A
285	STATE	EDWARDS FOOD STORE NJL800451890/KCSNJ	232 CENTRAL AVE JERSEY CITY NJ 07307	0.60 NW	+ 108	N/A
286	STATE	EXXON R/S 35500 014406/ACTIVE	726 JERSEY AVE JERSEY CITY NJ 07303	0.60 SW	+ 10	N/A
286	STATE	EXXON SERVICE STATION JERSEY C NJL600182075/KCSNJ	726 JERSEY AVE JERSEY CITY NJ 07302	0.60 SW	+ 10	N/A
292	STATE	AMERICAN SHUFFLEBOARD CO INC G000015384/CLOSED	210 PATERSON PLANK ROAD UNION CITY NJ	0.61 NE	+ 47	N/A
293	STATE	HOBOKEN FREE PUBLIC LIBRARY 011591/CLOSED	500 PARK AVE HOBOKEN NJ 07030	0.61 NE	+ 3	N/A
292	STATE	AMERICAN SHUFFLEBOARD COMPANY NJL500038849/KCSNJ	210 PATERSON PLANK ROAD UNION CITY NJ 07307	0.61 NE	+ 47	N/A
291	STATE	91 HUTTON STREET 291003/CLOSED	91 HUTTON ST JERSEY CITY NJ	0.61 NW	+ 109	N/A
289	STATE	152 CENTRAL AVENUE 519342/CLOSED	152 CENTRAL AVE JERSEY CITY NJ 07306	0.61 NW	+ 110	N/A
290	STATE	46 48 ST PAULS AVENUE 293848/CLOSED	46 PAULS AVE JERSEY CITY NJ	0.61 SW	+ 90	N/A
288	STATE	125 OAKLAND AVENUE 444487/CLOSED	125 OAKLAND AVE JERSEY CITY NJ	0.61 SW	+ 97	N/A
295	STATE	134 CENTRAL AVENUE 191411/PENDING	134 CENTRAL AVE JERSEY CITY NJ 07306	0.62 NW	+ 109	N/A
296	STATE	86 88 MANHATTAN AVENUE 422074/CLOSED	86 MANHATTAN AVE JERSEY CITY NJ	0.62 NW	+ 109	N/A
294	STATE	114 HANCOCK AVENUE 425369/CLOSED	114 HANCOCK AVE JERSEY CITY NJ	0.62 NW	+ 117	N/A
297	STATE	DOGGETT CORPORATION 513511/ACTIVE	30 CHERRY ST JERSEY CITY NJ 07306	0.62 SW	+ 94	N/A
307	STATE	TARRAGON CORP G000001102/ACTIVE	900 MONROE ST HOBOKEN CITY NJ 07030	0.63 NE	+ 24	N/A
305	STATE	DEWAREST ELEMENTARY SCHOOL NJL600228845/KCSNJ	4TH ST HOBOKEN NJ 07030	0.63 NE	+ 8	N/A
300	STATE	619 633 ADAMS 269573/ACTIVE	619 ADAMS ST HOBOKEN NJ 07030	0.63 NE	+ 9	N/A
299	STATE	510 PARK AVENUE 436089/ACTIVE	510 PARK AVE HOBOKEN NJ 07030	0.63 NE	+ 3	N/A
302	STATE	75 BOWERS STREET 258184/CLOSED	75 BOWERS ST JERSEY CITY NJ 07307	0.63 NW	+ 112	N/A

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298	STATE	126 CENTRAL AVENUE 296029/CLOSED	126 CENTRAL AVE JERSEY CITY NJ	0.63 NW	+ 107	N/A
301	STATE	72 HUDSON ST G000044510/CLOSED	72 HUDSON ST HOBOKEN CITY NJ	0.63 SE	+ 5	N/A
303	STATE	76 HOPKINS AVENUE 191043/CLOSED	76 HOPKINS AVE JERSEY CITY NJ	0.63 SW	+ 94	N/A
304	STATE	78 80 HOPKINS AVENUE 255079/ACTIVE	68 HOPKINS AVE JERSEY CITY NJ 07306	0.63 SW	+ 94	N/A
306	STATE	M and M VERDI INTERNATIONAL IN G000001046/CLOSED	205 10TH ST JERSEY CITY NJ	0.63 SW	+ 9	N/A
310	STATE	507 PARK AVENUE 221531/CLOSED	507 PARK AVE HOBOKEN NJ 07030	0.64 NE	+ 2	N/A
313	STATE	HOBOKEN SHOPRITE (FORMER) 024751/CLOSED	221 WASHINGTON ST HOBOKEN NJ 07030	0.64 NE	+ 12	N/A
312	STATE	CHURCH TOWER APARTMENT NJL800554891/KCSNJ	10 CHURCH TWRS HOBOKEN NJ 07030	0.64 NE	+ 2	N/A
314	STATE	SPARKLE CLEANERS 006177/CLOSED	304 CENTRAL AVE JERSEY CITY NJ 07307	0.64 NW	+ 114	N/A
316	STATE	WALTER MACHINE CO 023563/CLOSED	84 CAMBRIDGE AVE JERSEY CITY NJ	0.64 NW	+ 121	N/A
309	STATE	285 CENTRAL AVENUE 194928/CLOSED	285 CENTRAL AVE JERSEY CITY NJ	0.64 NW	+ 112	N/A
315	STATE	THE BAKERY CONDOMINIUMS 139760/CLOSED	176 SHERMAN AVE JERSEY CITY NJ	0.64 NW	+ 112	N/A
311	STATE	54 SAINT PAULS AVENUE 481659/CLOSED	54 PAULS AVE JERSEY CITY NJ 07306	0.64 SW	+ 92	N/A
308	STATE	28 CONCORD STREET 241113/CLOSED	28 CONCORD ST JERSEY CITY NJ	0.64 SW	+ 87	N/A
318	STATE	SALVATORE CALABRO ELEMENTARY S NJL800074809/KCSNJ	524 PARK AVE HOBOKEN NJ 07030	0.65 NE	+ 2	N/A
320	STATE	LEVOLOR LORENTZEN INCORPORATED NJD001379254/KCSNJ	720 MONROE ST HOBOKEN NJ 07030	0.65 NE	+ 25	N/A
320	STATE	LEVOLOR CORP 009027/ACTIVE	720 MONROE ST HOBOKEN CITY NJ 07030	0.65 NE	+ 25	N/A
319	STATE	CHURCH TOWERS APARTMENTS 021299/ACTIVE	5 CHURCH TOWERS HOBOKEN CITY NJ 07030	0.65 NE	+ 2	N/A
318	STATE	CALABRO SCHOOL 025076/ACTIVE	524 PARK AVE HOBOKEN NJ 07030	0.65 NE	+ 2	N/A
321	STATE	RESERVOIR SITE 133347/ACTIVE	113 CENTRAL AVE JERSEY CITY NJ 07305	0.65 NW	+ 106	N/A

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317	STATE	72 SAINT PAULS AVENUE 291028/CLOSED	72 PAULS AVE JERSEY CITY NJ	0.65 SW	+ 92	N/A
324	STATE	523 PARK AVENUE 504312/CLOSED	523 PARK AVE HOBOKEN NJ 07030	0.66 NE	+ 2	N/A
325	STATE	708 MADISON STREET 481762/CLOSED	708 MADISON ST HOBOKEN NJ 07030	0.66 NE	+ 22	N/A
327	STATE	JERSEY CITY REDEV AGENCY and U 240889/ACTIVE	389 WASHINGTON BLVD JERSEY CITY NJ 07306	0.66 SE	- 2	N/A
326	STATE	BETZ BREWERY PROPERTY G000033422/ACTIVE	511 LUIS MUNOZ MARIN BLVD JERSEY CITY NJ	0.66 SE	+ 9	N/A
323	STATE	425 WASHINGTON BLVD G000062596/ACTIVE	425 WASHINGTON BLVD JERSEY CITY NJ 07300	0.66 SE	- 2	N/A
322	STATE	397 BALDWIN AVENUE 194397/CLOSED	397 BALDWIN AVE JERSEY CITY NJ	0.66 SW	+ 90	N/A
328	STATE	564 PALISADE AVENUE 262106/CLOSED	564 PALISADE AVE JERSEY CITY NJ 07307	0.67 NE	+ 119	N/A
330	STATE	97 CENTRAL AVENUE NJL800205882	97 CENTRAL AVE JERSEY CITY NJ 07306	0.67 NW	+ 99	N/A
330	STATE	ARTHUR GOLD PROPERTY 031217/CLOSED	97 CENTRAL AVE JERSEY CITY NJ	0.67 NW	+ 99	N/A
331	STATE	LIBERTY CENTER NJL800526279/KCSNJ	328 WASHINGTON BLVD JERSEY CITY NJ 07310	0.67 SE	- 2	N/A
331	STATE	LIBERTY CENTER G000041021/ACTIVE	328 WASHINGTON BLVD JERSEY CITY NJ 07306	0.67 SE	- 2	N/A
332	STATE	MRP ENTERPRISES INCORPORATED G000013779/CLOSED	90 OAKLAND AVE JERSEY CITY NJ	0.67 SW	+ 91	N/A
333	STATE	ST MICHAELS CHURCH 024929/ACTIVE	252 NINTH ST JERSEY CITY NJ 07302	0.67 SW	+ 7	N/A
329	STATE	96 OAKLAND AVENUE 017544/ACTIVE	96 OAKLAND AVE JERSEY CITY NJ 07306	0.67 SW	+ 91	N/A
335	STATE	25.5 SHERMAN PLACE 194859/PENDING	25 .5 SHERMAN PL JERSEY CITY NJ 07307	0.68 NW	+ 119	N/A
336	STATE	48 SOUTH STREET 282880/PENDING	28 SOUTH ST JERSEY CITY NJ	0.68 NW	+ 119	N/A
334	STATE	111 HUTTON STREETAPARTMENT 230315/CLOSED	111 HUTTON ST JERSEY CITY NJ	0.68 NW	+ 117	N/A
337	STATE	NINTH STREET FIREHOUSE G000008719/CLOSED	211 9TH ST JERSEY CITY NJ	0.68 SW	+ 8	N/A
341	STATE	502 BLOOMFIELD ST 172330/PENDING	502 BLOOMFIELD ST HOBOKEN NJ 07030	0.69 NE	+ 9	N/A

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342	STATE	517 GARDEN STREET 550338/CLOSED	517 GARDEN ST HOBOKEN NJ 07030	0.69 NE	+ 6	N/A
343	STATE	608 PARK AVE G000044502/PENDING	608 PARK AVE HOBOKEN CITY NJ 07030	0.69 NE	+ 2	N/A
343	STATE	608 PARK AVE NJL800584781/KCSNJ	608 PARK AVE HOBOKEN NJ 07030	0.69 NE	+ 2	N/A
339	STATE	122 HUTTON STREET 133415/ACTIVE	122 HUTTON ST JERSEY CITY NJ 07307	0.69 NW	+ 120	N/A
338	STATE	109 BOWERS STREET 289627/CLOSED	109 BOWERS ST JERSEY CITY NJ	0.69 NW	+ 129	N/A
340	STATE	27 SHERMAN PLACE 532594/CLOSED	27 SHERMAN PL JERSEY CITY NJ 07307	0.69 NW	+ 119	N/A
344	STATE	BETZ BREWERY PROPERTY NJL800372310/KCSNJ	511 LUIS MUNOZ MARIN BLVD JERSEY CITY NJ 07302	0.69 SE	+ 7	N/A
348	STATE	612 PARK AVENUE 444126/CLOSED	612 PARK AVE HOBOKEN NJ 07030	0.70 NE	+ 2	N/A
347	STATE	44 SOUTH STREET 491768/CLOSED	44 SOUTH ST JERSEY CITY NJ 07307	0.70 NW	+ 118	N/A
349	STATE	ST PAUL OF THE CROSS SCHOOL 033681/CLOSED	211 SHERMAN AVE JERSEY CITY NJ	0.70 NW	+ 119	N/A
346	STATE	28-30 SHERMAN PLACE 557922/ACTIVE	28 SHERMAN PL JERSEY CITY NJ 07307	0.70 NW	+ 121	N/A
345	STATE	169 1/2 COLES STREET G000037000/CLOSED	169 COLES ST JERSEY CITY NJ	0.70 SW	0	N/A
350	STATE	531 GARDEN STREET 448330/CLOSED	531 GARDEN ST HOBOKEN NJ 07030	0.71 NE	+ 5	N/A
352	STATE	GENERAL PENCIL CO INC 033664/CLOSED	67 FLEET ST JERSEY CITY NJ	0.71 SW	+ 88	N/A
351	STATE	66 68 CENTRAL AVENUE 458144/ACTIVE	66 CENTRAL AVE JERSEY CITY NJ	0.71 SW	+ 93	N/A
354	STATE	703 CLINTON ST NJL800471351/KCSNJ	703 CLINTON ST HOBOKEN NJ 07030	0.72 NE	+ 2	N/A
356	STATE	NINTH STREET PROPERTY 171585/ACTIVE	824 TO 830 MONROE HOBOKEN CITY NJ 07030	0.72 NE	+ 24	N/A
355	STATE	99 WILLOW TERRACE 196085/KCSNJ	99 WILLOW TER HOBOKEN NJ 07030	0.72 NE	+ 2	N/A
354	STATE	703 CLINTON ST G000037871/PENDING	703 CLINTON ST HOBOKEN NJ 07030	0.72 NE	+ 2	N/A
353	STATE	30 ZABRISKIE STREET 542661/CLOSED	30 ZABRISKIE ST JERSEY CITY NJ 07307	0.72 NW	+ 126	N/A

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357	STATE	ST FRANCIS HOSPITAL 031216/CLOSED	25 MCWILLIAMS PL JERSEY CITY NJ	0.72 SW	+ 6	N/A
362	STATE	GRAND STREET MERCURY 018482/ACTIVE	720 GRAND ST HOBOKEN NJ 07030	0.73 NE	+ 6	N/A
364	STATE	TARRAGON CORPORATION 237538/ACTIVE	800 MADISON ST HOBOKEN CITY NJ 07030	0.73 NE	+ 18	N/A
362	STATE	QUALITY TOOL and DIE COMPANY I NJ0001327733/KCSNJ	720 GRAND ST HOBOKEN NJ 07030	0.73 NE	+ 6	N/A
362	STATE	QUALITY TOOL and DIE COMPANY I NJL500026224	720 GRAND ST HOBOKEN NJ 07030	0.73 NE	+ 6	N/A
361	STATE	DAVEY COMPANY NJL800301996/KCSNJ	164 LAIDLAW AVE JERSEY CITY NJ 07306	0.73 NW	+ 100	N/A
361	STATE	DAVEY COMPANY G000031406/ACTIVE	164 LAIDLAW AVE JERSEY CITY NJ 07306	0.73 NW	+ 100	N/A
359	STATE	285 WEBSTER AVENUE 249311/CLOSED	285 WEBSTER AVE JERSEY CITY NJ 07307	0.73 NW	+ 118	N/A
363	STATE	SEARS AUTO CENTER G000027978/CLOSED	50 WEST MALL DR JERSEY CITY NJ	0.73 SE	+ 1	N/A
360	STATE	57 CENTRAL AVE G000041994/CLOSED	57 CENTRAL AVE JERSEY CITY NJ	0.73 SW	+ 93	N/A
358	STATE	25 WEST HAMILTON PLACE 505150/ACTIVE	25 W HAMILTON PL JERSEY CITY NJ 07302	0.73 SW	+ 2	N/A
369	STATE	HOBOKEN CITY WATERFRONT DEVELO NJL800206609/KCSNJ	3RD ST and RIVER ST HOBOKEN NJ 07030	0.74 NE	+ 2	N/A
369	STATE	NJ TRANSIT AREA 6 NJL800031536	0 3RD ST and RIVER ST HOBOKEN NJ 07030	0.74 NE	+ 2	N/A
369	STATE	HOBOKEN CITY WATERFRONT DEVELO G000028159/ACTIVE	RIVER and 3RD STS HOBOKEN CITY NJ 07030	0.74 NE	+ 2	N/A
368	STATE	BRANDA DAIRY CORP (BandS FOODS 025568/CLOSED	801 MADISON ST HOBOKEN CITY NJ	0.74 NE	+ 16	N/A
371	STATE	VENATOR GROUP INC G000036167/CLOSED	821 SUMMIT AVE UNION CITY NJ	0.74 NW	+ 120	N/A
366	STATE	287 PAVONIA AVENUE NJL800559684/KCSNJ	287 PAVONIA AVE JERSEY CITY NJ 07302	0.74 SW	+ 2	N/A
365	STATE	285 PAVONIA AVENUE 155989/ACTIVE	285 PAVONIA AVE JERSEY CITY NJ 07303	0.74 SW	+ 2	N/A
366	STATE	287 PAVONIA AVENUE G000059712/CLOSED	287 PAVONIA AVE JERSEY CITY NJ	0.74 SW	+ 2	N/A
367	STATE	306 308 PAVONIA AVENUE 542115/CLOSED	306 PAVONIA AVE JERSEY CITY NJ 07302	0.74 SW	+ 1	N/A

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370	STATE	JERSEY CITY SCHOOL 6 016025/CLOSED	96 PAULS AVE JERSEY CITY NJ 07306	0.74 SW	+ 92	N/A
375	STATE	PORT AUTHORITY OF NY NJ 017665/ACTIVE	325 RIVER ST HOBOKEN CITY NJ 07030	0.75 NE	+ 2	N/A
374	STATE	617 GARDEN STREET 193547/CLOSED	617 GARDEN ST HOBOKEN NJ 07030	0.75 NE	+ 5	N/A
375	STATE	HOBOKEN PIERS HEADHOUSE NJD981184484/KCSNJ	325 RIVER ST HOBOKEN NJ 07030	0.75 NE	+ 2	N/A
376	STATE	UNION DRY DOCK and REPAIR CO 013004/ACTIVE	901 SINATRA DR HOBOKEN CITY NJ 07030	0.75 SE	- 4	N/A
372	STATE	137 HOPKINS AVENUE 251242/CLOSED	137 HOPKINS AVE JERSEY CITY NJ 07306	0.75 SW	+ 93	N/A
373	STATE	175 BEACON AVE G000037503/PENDING	175 BEACON AVE JERSEY CITY NJ 07306	0.75 SW	+ 96	N/A
373	STATE	175 BEACON AVE NJL800463192/KCSNJ	175 BEACON AVE JERSEY CITY NJ 07306	0.75 SW	+ 96	N/A
377	STATE	631 GARDEN STREET 423483/CLOSED	631 GARDEN ST HOBOKEN NJ 07030	0.76 NE	+ 5	N/A
378	STATE	897 SUMMIT AVENUE 451691/ACTIVE	897 SUMMIT AVE JERSEY CITY NJ	0.76 NW	+ 126	N/A
379	STATE	9 SANFORD PLACE 219987/CLOSED	9 SANFORD PL JERSEY CITY NJ	0.76 NW	+ 121	N/A
380	STATE	CAMBRIDGE AVE APARTMENT 167999/CLOSED	165 CAMBRIDGE AVE JERSEY CITY NJ	0.76 NW	+ 133	N/A
381	STATE	RESEARCH and MFG CORPORATION O G000014289/ACTIVE	360 9TH ST JERSEY CITY NJ 07302	0.76 SW	0	N/A
385	STATE	618 BLOOMFIELD STREET 537631/ACTIVE	618 BLOOMFIELD ST HOBOKEN NJ 07030	0.77 NE	+ 9	N/A
387	STATE	C C CASALINO FUEL SERVICE 007256/CLOSED	800 JACKSON ST HOBOKEN CITY NJ	0.77 NE	+ 27	N/A
386	STATE	ALBEE SERVICES INC 022149/ACTIVE	410 8TH ST HOBOKEN CITY NJ 07030	0.77 NE	+ 7	N/A
386	STATE	ALBEE SERVICES INCORPORATED NJD001457472/KCSNJ	410 8TH ST HOBOKEN NJ 07030	0.77 NE	+ 7	N/A
383	STATE	20 CARLTON AVENUE 460968/CLOSED	20 CARLTON AVE JERSEY CITY NJ	0.77 NW	+ 121	N/A
382	STATE	199 GRIFFITH STREET 194423/CLOSED	199 GRIFFITH ST JERSEY CITY NJ 07307	0.77 NW	+ 135	N/A
384	STATE	6 TROY STREET 258712/CLOSED	6 TROY ST JERSEY CITY NJ 07307	0.77 NW	+ 120	N/A

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389	STATE	THREE BROTHERS EXXON 012473/ACTIVE	348 BALDWIN AVE JERSEY CITY NJ 07306	0.77 SW	+ 80	N/A
389	STATE	THREE BROTHERS GULF NJL800533333/KCSNJ	348 BALDWIN AVE JERSEY CITY NJ 07306	0.77 SW	+ 80	N/A
388	STATE	GETTY 56872 001468/ACTIVE	39 CENTRAL AVE JERSEY CITY NJ	0.77 SW	+ 89	N/A
399	STATE	717 WILLOW AVENUE 292640/CLOSED	717 WILLOW AVE HOBOKEN NJ 07030	0.78 NE	+ 2	N/A
400	STATE	TRIBORO HARDWARE and CHEMICAL 133124/ACTIVE	812 GRAND ST HOBOKEN CITY NJ 07030	0.78 NE	+ 6	N/A
398	STATE	617 BLOOMFIELD STREET 492079/CLOSED	617 BLOOMFIELD ST HOBOKEN NJ 07030	0.78 NE	+ 11	N/A
391	STATE	208 7TH STREET 441220/CLOSED	208 7TH ST HOBOKEN NJ 07030	0.78 NE	+ 2	N/A
394	STATE	391 CENTRAL AVENUE 265055/CLOSED	391 CENTRAL AVE JERSEY CITY NJ	0.78 NW	+ 142	N/A
390	STATE	155 BOWERS STREET 293887/CLOSED	155 BOWERS ST JERSEY CITY NJ	0.78 NW	+ 136	N/A
393	STATE	320 1/2 WEBSTER AVENUE 261121/CLOSED	320 WEBSTER AVE JERSEY CITY NJ	0.78 NW	+ 125	N/A
396	STATE	41 LINCOLN STREET 548851/CLOSED	41 LINCOLN ST JERSEY CITY NJ 07307	0.78 NW	+ 136	N/A
395	STATE	400 CENTRAL AVE 172604/CLOSED	400 CENTRAL AVE JERSEY CITY NJ	0.78 NW	+ 140	N/A
392	STATE	294 8TH STREET 285161/CLOSED	294 8TH ST JERSEY CITY NJ	0.78 SW	+ 1	N/A
397	STATE	57 WASHBURN STREET 238691/CLOSED	57 WASHBURN ST JERSEY CITY NJ 07304	0.78 SW	+ 80	N/A
407	STATE	EXXON SERVICE STATION JERSEY C NJD986599108/KCSNJ	599 PALISADE AVE JERSEY CITY NJ 07307	0.79 NE	+ 126	N/A
407	STATE	EXXON STORE 3-2008 008383/ACTIVE	599 PALISADE AVE JERSEY CITY NJ 07305	0.79 NE	+ 126	N/A
405	STATE	728 PARK AVENUE 545833/ACTIVE	728 PARK AVE HOBOKEN NJ 07030	0.79 NE	+ 2	N/A
406	STATE	CHICKEN DELIGHT G000030065/ACTIVE	537 WASHINGTON ST HOBOKEN NJ 07030	0.79 NE	+ 21	N/A
408	STATE	SHERMAN VIEW APARTMENT COMPLEX G000022064/CLOSED	64 SHERMAN PL JERSEY CITY NJ	0.79 NW	+ 130	N/A
403	STATE	333 BALDWIN AVENUE 476948/CLOSED	333 BALDWIN AVE JERSEY CITY NJ	0.79 SW	+ 80	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
402	STATE	331 BALDWIN AVENUE G000032790/ACTIVE	331 BALDWIN AVE JERSEY CITY NJ 07303	0.79 SW	+ 80	N/A
404	STATE	380 9TH STREET GRD WTR CONTAMI G000000974/CLOSED	380 9TH ST JERSEY CITY NJ	0.79 SW	+ 1	N/A
402	STATE	331 BALDWIN AVENUE NJL800356669/KCSNJ	331 BALDWIN AVE JERSEY CITY NJ 07306	0.79 SW	+ 80	N/A
401	STATE	141 SAINT PAULS AVENUE 243212/CLOSED	141 PAULS AVE JERSEY CITY NJ	0.79 SW	+ 92	N/A
416	STATE	640 BLOOMFIELD STREET 255845/CLOSED	640 BLOOMFIELD ST HOBOKEN NJ 07030	0.80 NE	+ 9	N/A
415	STATE	636 BLOOMFIELD ST G000060778/CLOSED	636 BLOOMFIELD ST HOBOKEN NJ 07030	0.80 NE	+ 9	N/A
414	STATE	530 HUDSON STREET 265445/CLOSED	530 HUDSON ST HOBOKEN NJ 07030	0.80 NE	+ 27	N/A
417	STATE	725 WILLOW AVENUE NJL800469918/KCSNJ	725 WILLOW AVE HOBOKEN NJ 07030	0.80 NE	+ 2	N/A
417	STATE	725 WILLOW AVENUE G000037805/ACTIVE	725 WILLOW AVE HOBOKEN NJ 07030	0.80 NE	+ 2	N/A
415	STATE	636 BLOOMFIELD ST NJL800614380/KCSNJ	636 BLOOMFIELD ST HOBOKEN NJ 07030	0.80 NE	+ 9	N/A
410	STATE	146 MANHATTAN AVENUE 260586/CLOSED	146 MANHATTAN AVE JERSEY CITY NJ 07303	0.80 NW	+ 123	N/A
413	STATE	46 LINCOLN STREET 447684/CLOSED	46 LINCOLN ST JERSEY CITY NJ	0.80 NW	+ 137	N/A
418	STATE	96 SOUTH STREET 439428/CLOSED	96 SOUTH ST JERSEY CITY NJ	0.80 NW	+ 135	N/A
409	STATE	12 CHARLES STREET 191035/CLOSED	12 CHARLES ST JERSEY CITY NJ	0.80 NW	+ 142	N/A
411	STATE	253 SHERMAN AVENUE 155833/CLOSED	253 SHERMAN AVE JERSEY CITY NJ	0.80 NW	+ 127	N/A
412	STATE	319 8TH STREET 129702/CLOSED	319 8TH ST UNION CITY NJ 07087	0.80 SW	+ 1	N/A
423	STATE	740 PARK AVENUE G000022306/CLOSED	740 PARK AVE HOBOKEN NJ 07030	0.81 NE	+ 2	N/A
424	STATE	742 PARK AVENUE I F O NJL000067785/KCSNJ	742 PARK AVE HOBOKEN NJ 07030	0.81 NE	+ 2	N/A
424	STATE	742 PARK AVENUE I F O G000011359/PENDING	742 PARK AVE HOBOKEN NJ 07030	0.81 NE	+ 2	N/A
424	STATE	744 PARK AVENUE 442658/CLOSED	744 PARK AVE HOBOKEN NJ 07030	0.81 NE	+ 2	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
425	STATE	LMT STEEL PRODUCTS INCORPORATE NJL500051479/KCSNJ	550 9TH ST HOBOKEN NJ 07030	0.81 NE	+ 9	N/A
422	STATE	709 GARDEN STREET 488035/CLOSED	709 GARDEN ST HOBOKEN NJ 07030	0.81 NE	+ 4	N/A
421	STATE	418 CENTRAL AVENUE 333019/CLOSED	418 CENTRAL AVE JERSEY CITY NJ	0.81 NW	+ 139	N/A
426	STATE	SHERMAN VIEW APARTMENT COMPLEX NJL800014946/KCSNJ	64 SHERMAN PLC JERSEY CITY NJ 07307	0.81 NW	+ 130	N/A
420	STATE	27 CHARLES STREET 463746/CLOSED	27 CHARLES ST JERSEY CITY NJ	0.81 NW	+ 140	N/A
419	STATE	231 BRUNSWICK STREET 290262/CLOSED	231 BRUNSWICK ST JERSEY CITY NJ	0.81 SW	0	N/A
433	STATE	636 WASHINGTON STREET 194333/CLOSED	636 WASHINGTON ST HOBOKEN NJ 07030	0.82 NE	+ 15	N/A
436	STATE	KTAV PUBLISHING HOUSE 97967/ACTIVE	900 JEFFERSON ST HOBOKEN CITY NJ 07030	0.82 NE	+ 8	N/A
434	STATE	969 SUMMIT AVENUE 244345/CLOSED	969 SUMMIT AVE JERSEY CITY NJ	0.82 NW	+ 140	N/A
431	STATE	30 CHARLES STREET 466302/CLOSED	30 CHARLES ST JERSEY CITY NJ	0.82 NW	+ 141	N/A
435	STATE	JERSEY CITY FIRE DEPARTMENT HE 019989/CLOSED	465 LUIS MUNOZ MARIN BLVD JERSEY CITY NJ	0.82 SE	+ 3	N/A
427	STATE	162 SAINT PAULS AVENUE 489135/CLOSED	162 PAULS AVE JERSEY CITY NJ	0.82 SW	+ 93	N/A
429	STATE	208 7TH STREET 456618/ACTIVE	208 7TH ST JERSEY CITY NJ	0.82 SW	+ 8	N/A
428	STATE	168 SAINT PAULS AVENUE 258497/PENDING	168 PAULS AVE JERSEY CITY NJ 07306	0.82 SW	+ 93	N/A
430	STATE	25 OAKLAND AVE G000043333/ACTIVE	25 OAKLAND AVE JERSEY CITY NJ 07306	0.82 SW	+ 82	N/A
430	STATE	25 OAKLAND AVE NJL800473449/KCSNJ	25 OAKLAND AVE JERSEY CITY NJ 07306	0.82 SW	+ 82	N/A
432	STATE	416 HOBOKEN AVE 332554/CLOSED	414 HOBOKEN AVE JERSEY CITY NJ	0.82 SW	+ 84	N/A
441	STATE	604 HUDSON STREET 532194/CLOSED	604 HUDSON ST HOBOKEN NJ 07030	0.83 NE	+ 28	N/A
437	STATE	110 SEVENTH ST G000041565/PENDING	110 7TH ST HOBOKEN NJ 07030	0.83 NE	+ 12	N/A
444	STATE	805 WILLOW AVENUE 233593/CLOSED	805 WILLOW AVE HOBOKEN NJ 07030	0.83 NE	+ 2	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
442	STATE	708 BLOOMFIELD AVENUE 488813/CLOSED	708 BLOOMFIELD ST HOBOKEN NJ 07030	0.83 NE	+ 9	N/A
437	STATE	110 SEVENTH ST NJL800535734/KCSNJ	110 7TH ST HOBOKEN NJ 07030	0.83 NE	+ 12	N/A
443	STATE	77 CONGRESS ST G000041561/CLOSED	77 CONGRESS ST JERSEY CITY NJ	0.83 NW	+ 131	N/A
439	STATE	209 HANCOCK AVENUE 283194/ACTIVE	209 HANCOCK AVE JERSEY CITY NJ	0.83 NW	+ 139	N/A
440	STATE	358 8TH STREET 465314/CLOSED	358 TH ST JERSEY CITY NJ	0.83 SW	0	N/A
438	STATE	15 23 OAKLAND AVENUE 298653/CLOSED	15 OAKLAND AVE JERSEY CITY NJ	0.83 SW	+ 83	N/A
448	STATE	608 HUDSON STREET 480216/CLOSED	608 HUDSON ST HOBOKEN NJ 07030	0.84 NE	+ 28	N/A
452	STATE	707 BLOOMFIELD STREET 265014/CLOSED	707 BLOOMFIELD ST HOBOKEN NJ 07030	0.84 NE	+ 12	N/A
449	STATE	612 HUDSON STREET G000034727/CLOSED	612 HUDSON ST HOBOKEN NJ 07030	0.84 NE	+ 28	N/A
450	STATE	616 HUDSON STREET 475953/CLOSED	616 HUDSON ST HOBOKEN NJ 07030	0.84 NE	+ 28	N/A
445	STATE	10 MONTROSE AVENUE G000024361/CLOSED	10 MONTROSE AVE JERSEY CITY NJ	0.84 NW	+ 121	N/A
446	STATE	215 HANCOCK AVE 133282/CLOSED	215 HANCOCK AVE JERSEY CITY NJ	0.84 NW	+ 140	N/A
454	STATE	91 SHERMAN PL 172506/PENDING	91 SHERMAN PL JERSEY CITY NJ 07305	0.84 NW	+ 127	N/A
453	STATE	707 SUMMIT AVE G000034870/CLOSED	707 SUMMIT AVE UNION CITY NJ	0.84 NW	+ 99	N/A
447	STATE	44 CHARLES STREET 511317/CLOSED	44 CHARLES ST JERSEY CITY NJ 07307	0.84 NW	+ 139	N/A
451	STATE	644 JERSEY AVENUE 288992/CLOSED	644 JERSEY AVE JERSEY CITY NJ	0.84 SW	+ 1	N/A
455	STATE	PENNETTA and SONS NJL800522468/KCSNJ	428 HOBOKEN AVE JERSEY CITY NJ 07306	0.84 SW	+ 84	N/A
455	STATE	PENNETTA and SON 018256/ACTIVE	428 HOBOKEN AVE JERSEY CITY NJ 07306	0.84 SW	+ 84	N/A
457	STATE	411 NEW YORK AVENUE 420609/CLOSED	411 NEW YORK AVE JERSEY CITY NJ	0.85 NE	+ 136	N/A
462	STATE	735 GARDEN STREET 554476/CLOSED	735 GARDEN ST HOBOKEN NJ 07030	0.85 NE	+ 4	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
460	STATE	715 BLOOMFIELD ST G000043574/CLOSED	715 BLOOMFIELD ST HOBOKEN NJ 07030	0.85 NE	+ 11	N/A
459	STATE	609 HUDSON STREET G000037552/CLOSED	609 HUDSON ST HOBOKEN NJ 07030	0.85 NE	+ 40	N/A
461	STATE	720 BLOOMFIELD STREET 459277/CLOSED	720 BLOOMFIELD ST HOBOKEN NJ 07030	0.85 NE	+ 8	N/A
465	STATE	KOHN KNITTING MILLS INC 031020/CLOSED	400 9TH ST HOBOKEN CITY NJ	0.85 NE	+ 6	N/A
465	STATE	KOHN KNITTING MILLS NJL800187684	400 9TH ST HOBOKEN NJ 07030	0.85 NE	+ 6	N/A
466	STATE	STEVENS INSTITUTE OF TECHNOLOG 236548/ACTIVE	607 HUDSON ST HOBOKEN NJ 07030	0.85 NE	+ 41	N/A
464	STATE	814 PARK AVE G000043979/ACTIVE	814 PARK AVE HOBOKEN NJ 07030	0.85 NE	+ 2	N/A
464	STATE	814 PARK AVE NJL800575003/KCSNJ	814 PARK AVE HOBOKEN NJ 07030	0.85 NE	+ 2	N/A
463	STATE	813 WILLOW AVENUE 293335/CLOSED	813 WILLOW AVE HOBOKEN NJ 07030	0.85 NE	+ 3	N/A
456	STATE	3 MONTROSE AVENUE 282885/CLOSED	3 MONTROSE AVE JERSEY CITY NJ	0.85 NW	+ 121	N/A
458	STATE	432 HOBOKEN AVENUE 424844/ACTIVE	432 HOBOKEN AVE JERSEY CITY NJ	0.85 SW	+ 83	N/A
473	STATE	802 GARDEN STREET 172548/CLOSED	802 GARDEN ST HOBOKEN NJ 07030	0.86 NE	+ 2	N/A
472	STATE	728 BLOOMFIELD AVENUE 259275/CLOSED	728 BLOOMFIELD ST HOBOKEN NJ 07030	0.86 NE	+ 7	N/A
471	STATE	723 BLOOMFIELD AVE 187625/CLOSED	723 BLOOMFIELD ST HOBOKEN NJ 07030	0.86 NE	+ 11	N/A
470	STATE	709 BLOOMFIELD STREET 287383/ACTIVE	719 BLOOMFIELD ST HOBOKEN NJ 07030	0.86 NE	+ 11	N/A
477	STATE	STEVENS INSTITUTE OF TECH RESI 236608/CLOSED	615 HUDSON ST HOBOKEN NJ 07030	0.86 NE	+ 39	N/A
469	STATE	626 HUDSON STREET 203132/CLOSED	626 HUDSON ST HOBOKEN NJ 07030	0.86 NE	+ 30	N/A
468	STATE	619 HUDSON STREET 258557/CLOSED	619 HUDSON ST HOBOKEN NJ 07030	0.86 NE	+ 41	N/A
467	STATE	420 NEW YORK AVENUE 497827/CLOSED	420 NEW YORK AVE JERSEY CITY NJ 07307	0.86 NE	+ 136	N/A
474	STATE	DICKINSON HIGH SCHOOL NJL800332462/KCSNJ	2 PALISADE AVE JERSEY CITY NJ 07306	0.86 SW	+ 91	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
474	STATE	DICKINSON HIGH SCHOOL 016048/ACTIVE	2 PALISADE AVE JERSEY CITY NJ 07303	0.86 SW	+ 91	N/A
475	STATE	GREEN TREE CONSTRUCTION INC 134275/ACTIVE	244 6TH ST JERSEY CITY NJ 07303	0.86 SW	+ 2	N/A
476	STATE	HUDSON COUNTY CHROMATE 76 G000008703/CLOSED	379 8TH ST JERSEY CITY NJ	0.86 SW	0	N/A
489	STATE	HOBOKEN HIGH SCHOOL 025074/ACTIVE	9TH and CLINTON STS HOBOKEN CITY NJ 07030	0.87 NE	+ 6	N/A
485	STATE	808 GARDEN STREET 507299/CLOSED	808 GARDEN ST HOBOKEN NJ 07030	0.87 NE	+ 2	N/A
484	STATE	727 BLOOMFIELD STREET 290293/CLOSED	727 BLOOMFIELD ST HOBOKEN NJ 07030	0.87 NE	+ 11	N/A
489	STATE	HOBOKEN HIGH SCHOOL NJD986612927/KCSNJ	9TH ST and CLINTON ST HOBOKEN NJ 07030	0.87 NE	+ 6	N/A
487	STATE	832 WILLOW AVENUE G000038552/ACTIVE	832 WILLOW AVE HOBOKEN NJ 07030	0.87 NE	+ 4	N/A
487	STATE	832 WILLOW AVENUE NJL800480428/KCSNJ	832 WILLOW AVE HOBOKEN NJ 07030	0.87 NE	+ 4	N/A
486	STATE	810 GARDEN STREET 526337/CLOSED	810 GARDEN ST HOBOKEN NJ 07030	0.87 NE	+ 2	N/A
488	STATE	AandJ AUTO REPAIR 006175/ACTIVE	99 CONGRESS ST JERSEY CITY NJ 07307	0.87 NW	+ 143	N/A
488	STATE	A and J AUTO REPAIR NJL600039846/KCSNJ	99 CONGRESS ST JERSEY CITY NJ 07307	0.87 NW	+ 143	N/A
478	STATE	1012 1016 SUMMIT AVENUE 156361/ACTIVE	1012 SUMMIT AVE UNION CITY NJ 07304	0.87 NW	+ 140	N/A
490	STATE	HUDSON COUNTY CHROMATE 77 NJL000000778/KCSNJ	383 8TH ST JERSEY CITY NJ 07302	0.87 SW	0	N/A
490	STATE	HUDSON COUNTY CHROMATE 77 G000008704/ACTIVE	383 8TH ST JERSEY CITY NJ 07302	0.87 SW	0	N/A
480	STATE	202 6TH STREET 282974/CLOSED	202 6TH ST JERSEY CITY NJ	0.87 SW	+ 10	N/A
481	STATE	204 6TH STREET 282991/CLOSED	204 6TH ST JERSEY CITY NJ	0.87 SW	+ 10	N/A
479	STATE	200 6TH STREET 282881/CLOSED	200 6TH ST JERSEY CITY NJ	0.87 SW	+ 10	N/A
483	STATE	208 6TH STREET 290209/CLOSED	208 6TH ST JERSEY CITY NJ	0.87 SW	+ 10	N/A
482	STATE	206 6TH STREET 282992/CLOSED	206 6TH ST JERSEY CITY NJ	0.87 SW	+ 10	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
501	STATE	737 BLOOMFIELD STREET 207713/CLOSED	737 BLOOMFIELD ST HOBOKEN NJ 07030	0.88 NE	+ 11	N/A
492	STATE	433 NEW YORK AVENUE 264424/CLOSED	433 NEW YORK AVE JERSEY CITY NJ 07040	0.88 NE	+ 140	N/A
499	STATE	733 BLOOMFIELD STREET 265000/CLOSED	733 BLOOMFIELD ST HOBOKEN NJ 07030	0.88 NE	+ 11	N/A
498	STATE	731 BLOOMFIELD STREET 476254/CLOSED	731 BLOOMFIELD ST HOBOKEN NJ 07030	0.88 NE	+ 11	N/A
500	STATE	735 BLOOMFIELD STREET 483625/CLOSED	735 BLOOMFIELD ST HOBOKEN NJ 07030	0.88 NE	+ 11	N/A
502	STATE	88 ZABRISKIE ST NJL800570145/KCSNJ	88 ZABRISKIE ST JERSEY CITY NJ 07307	0.88 NW	+ 139	N/A
495	STATE	57 SANFORD AVENUE NJL800386708/KCSNJ	57 SANFORD AVE JERSEY CITY NJ 07307	0.88 NW	+ 122	N/A
496	STATE	57 SANFORD ST 033396/PENDING	57 SANFORD PL JERSEY CITY NJ	0.88 NW	+ 122	N/A
497	STATE	58 LAKE STREET G000037179/CLOSED	58 LAKE ST JERSEY CITY NJ	0.88 NW	+ 121	N/A
502	STATE	88 ZABRISKIE ST G000043858/CLOSED	88 ZABRISKIE ST JERSEY CITY NJ	0.88 NW	+ 139	N/A
493	STATE	50 BEACH ST G000061412/ACTIVE	50 BEACH ST JERSEY CITY NJ 07300	0.88 NW	+ 118	N/A
494	STATE	53 LAKE STREET 268942/CLOSED	53 LAKE ST JERSEY CITY NJ 07306	0.88 NW	+ 120	N/A
491	STATE	205 BEACON AVENUE 213091/CLOSED	205 BEACON AVE JERSEY CITY NJ	0.88 NW	+ 100	N/A
503	STATE	NEWPORT DEVELOPMENT G000005557/ACTIVE	LUIS MUNOZ MARIN and BLVD JERSEY CITY NJ 07300	0.88 SE	+ 1	N/A
503	STATE	NEWPORT DEVELOPMENT NJD981133135/KCSNJ	6TH ST and LUIS MUNOZ MARIN JERSEY CITY NJ 07302	0.88 SE	+ 1	N/A
511	STATE	TARRAGON CORPORATION 237539/ACTIVE	1001 MADISON ST HOBOKEN CITY NJ 07030	0.89 NE	+ 2	N/A
507	STATE	732 WASHINGTON STREET 191695/CLOSED	732 WASHINGTON ST HOBOKEN NJ 07030	0.89 NE	+ 14	N/A
509	STATE	ACADEMY OF THE SACRED HEART 020552/ACTIVE	713 WASHINGTON ST HOBOKEN NJ 07030	0.89 NE	+ 21	N/A
508	STATE	800 BLOOMFIELD STREET G000025134/CLOSED	800 BLOOMFIELD ST HOBOKEN NJ 07030	0.89 NE	+ 8	N/A
504	STATE	198 BOWERS STREET 294807/CLOSED	198 BOWERS ST JERSEY CITY NJ	0.89 NW	+ 139	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
505	STATE	229 HANCOCK AVENUE G000023764/CLOSED	229 HANCOCK AVE JERSEY CITY NJ	0.89 NW	+ 149	N/A
506	STATE	54 MONTROSE AVENUE 255938/CLOSED	54 MONTROSE AVE JERSEY CITY NJ	0.89 NW	+ 117	N/A
510	STATE	HARSIMUS COVE NJL000010827/KCSNJ	6TH ST and LUIS MUNOZ MARIN JERSEY CITY NJ 07302	0.89 SE	+ 1	N/A
510	STATE	HARSIMUS COVE G000008826/ACTIVE	6TH ST and LUIS MUNOZ MARIN JERSEY CITY NJ 07306	0.89 SE	+ 1	N/A
516	STATE	810 BLOOMFIELD ST G000043911/PENDING	810 BLOOMFIELD ST HOBOKEN NJ 07030	0.90 NE	+ 8	N/A
517	STATE	909 CLINTON and 314 9TH STREET G000038553/ACTIVE	909 CLINTON ST HOBOKEN NJ 07030	0.90 NE	+ 5	N/A
514	STATE	650 PALISADES AVENUE G000021899/CLOSED	650 PALISADE AVE JERSEY CITY NJ	0.90 NE	+ 132	N/A
517	STATE	909 CLINTON and 314 9TH STREET NJL800480436/KCSNJ	909 CLINTON ST HOBOKEN NJ 07030	0.90 NE	+ 5	N/A
516	STATE	810 BLOOMFIELD ST NJL800573263/KCSNJ	810 BLOOMFIELD ST HOBOKEN NJ 07030	0.90 NE	+ 8	N/A
513	STATE	65 CHARLES STREET 448932/CLOSED	65 CHARLES ST JERSEY CITY NJ	0.90 NW	+ 139	N/A
518	STATE	EXXON 3-2433 008962/ACTIVE	1026 SUMMIT AVE JERSEY CITY NJ 07307	0.90 NW	+ 141	N/A
515	STATE	72 CARLTON AVENUE 259468/CLOSED	72 CARLTON AVE JERSEY CITY NJ 07306	0.90 NW	+ 120	N/A
512	STATE	200 BOWERS STREET 245592/CLOSED	200 BOWERS ST JERSEY CITY NJ	0.90 NW	+ 139	N/A
518	STATE	EXXON SERVICE STATION JERSEY C NJD986599603/KCSNJ	1026 SUMMIT AVE JERSEY CITY NJ 07307	0.90 NW	+ 141	N/A
526	STATE	720 HUDSON STREET 263681/CLOSED	720 HUDSON ST HOBOKEN NJ 07030	0.91 NE	+ 32	N/A
525	STATE	661 PALISADE AVENUE 167174/CLOSED	661 PALISADE AVE JERSEY CITY NJ	0.91 NE	+ 134	N/A
527	STATE	909 WILLOW AVENUE 423010/CLOSED	909 WILLOW AVE HOBOKEN NJ 07030	0.91 NE	+ 2	N/A
528	STATE	915 CLINTON ST G000037833/ACTIVE	915 CLINTON ST HOBOKEN NJ 07030	0.91 NE	+ 5	N/A
528	STATE	915 CLINTON ST NJL800470239/KCSNJ	915 CLINTON ST HOBOKEN NJ 07030	0.91 NE	+ 5	N/A
529	STATE	JACKS SERVICE 017325/ACTIVE	1027 TO 1029 SUMMIT AVE JERSEY CITY NJ 07307	0.91 NW	+ 141	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
522	STATE	248 HANCOCK AVENUE 238786/CLOSED	248 HANCOCK AVE JERSEY CITY NJ	0.91 NW	+ 151	N/A
521	STATE	161 SOUTH STREET 499763/CLOSED	161 SOUTH ST JERSEY CITY NJ 07307	0.91 NW	+ 146	N/A
519	STATE	104 ZABRISKIE STREET 248964/CLOSED	104 ZABRISKIE ST JERSEY CITY NJ 07307	0.91 NW	+ 139	N/A
523	STATE	260 GRIFFITH STREET 196104/KCSNJ	260 GRIFFITH ST JERSEY CITY NJ 07307	0.91 NW	+ 140	N/A
529	STATE	AMOCO SERVICE STATION JERSEY C NJL000067637/KCSNJ	1027 SUMMIT AVE JERSEY CITY NJ 07307	0.91 NW	+ 141	N/A
520	STATE	15 PATERSON STREET 253337/CLOSED	15 PATERSON ST JERSEY CITY NJ	0.91 NW	+ 152	N/A
524	STATE	614 JERSEY AVENUE 551701/CLOSED	614 JERSEY AVE JERSEY CITY NJ 07302	0.91 SW	0	N/A
532	STATE	442 NEW YORK AVENUE G000010413/CLOSED	442 NEW YORK AVE JERSEY CITY NJ	0.92 NE	+ 140	N/A
533	STATE	818 BLOOMFIELD AVENUE 203126/CLOSED	818 BLOOMFIELD ST HOBOKEN NJ 07030	0.92 NE	+ 8	N/A
534	STATE	822 BLOOMFIELD STREET 252451/CLOSED	822 BLOOMFIELD ST HOBOKEN NJ 07030	0.92 NE	+ 8	N/A
530	STATE	146 5TH STREET 287291/PENDING	146 5TH ST JERSEY CITY NJ	0.92 SE	+ 3	N/A
535	STATE	SUMMIT HOUSE INC 032213/CLOSED	591 SUMMIT AVE JERSEY CITY NJ	0.92 SW	+ 90	N/A
531	STATE	238 5TH STREET G000022070/CLOSED	238 5TH ST JERSEY CITY NJ	0.92 SW	+ 3	N/A
542	STATE	GETTY SERVICE STATION JERSEY C NJX000259788/KCSNJ	450 NEW YORK AVE JERSEY CITY NJ 07307	0.93 NE	+ 140	N/A
540	STATE	845 GARDEN STREET 298726/CLOSED	845 GARDEN ST HOBOKEN NJ 07030	0.93 NE	+ 5	N/A
536	STATE	730 HUDSON STREET 017642/CLOSED	730 HUDSON ST HOBOKEN NJ 07030	0.93 NE	+ 30	N/A
542	STATE	GETTY 56871 001469/ACTIVE	450 NEW YORK and PATERSON P JERSEY CITY NJ 07303	0.93 NE	+ 140	N/A
541	STATE	912 PARK AVENUE 251542/CLOSED	912 PARK AVE HOBOKEN NJ 07030	0.93 NE	+ 2	N/A
538	STATE	77 BEACH STREET 254571/CLOSED	77 BEACH ST JERSEY CITY NJ 07307	0.93 NW	+ 109	N/A
537	STATE	75 BEACH STREET 436037/CLOSED	75 BEACH ST JERSEY CITY NJ	0.93 NW	+ 109	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
539	STATE	81 LAKE STREET 535167/CLOSED	81 LAKE ST JERSEY CITY NJ 07306	0.93 NW	+ 113	N/A
547	STATE	829 BLOOMFIELD STREET 468103/CLOSED	829 BLOOMFIELD ST HOBOKEN NJ 07030	0.94 NE	+ 11	N/A
552	STATE	EXXON R/S 34131 008954/ACTIVE	384 PATERSON PLANK ROAD JERSEY CITY NJ 07307	0.94 NE	+ 139	N/A
550	STATE	906 GARDEN STREET 466418/ACTIVE	906 GARDEN ST HOBOKEN NJ 07030	0.94 NE	+ 4	N/A
549	STATE	901 GARDEN STREET 217222/CLOSED	901 GARDEN ST HOBOKEN NJ 07030	0.94 NE	+ 5	N/A
548	STATE	834 BLOOMFIELD STREET 246381/ACTIVE	834 BLOOMFIELD ST HOBOKEN NJ 07030	0.94 NE	+ 9	N/A
552	STATE	EXXON SERVICE STATION 3-4131 NJL800560583/KCSNJ	384 PATERSON PLANK ROAD JERSEY CITY NJ 07307	0.94 NE	+ 139	N/A
553	STATE	JERSEY CITY POLICE DEPARTMENT 019984/ACTIVE	60 COLLARD ST JERSEY CITY NJ 07302	0.94 NW	+ 108	N/A
553	STATE	JERSEY CITY COLLARD ST POLICE NJL800475188/KCSNJ	60 COLLARD ST JERSEY CITY NJ 07306	0.94 NW	+ 108	N/A
544	STATE	31 PATERSON STREET 534557/CLOSED	31 PATERSON ST JERSEY CITY NJ 07307	0.94 NW	+ 156	N/A
543	STATE	168 SOUTH STREET 449194/ACTIVE	168 SOUTH ST JERSEY CITY NJ	0.94 NW	+ 144	N/A
546	STATE	81 THORNE STREET 233085/CLOSED	81 THORNE ST JERSEY CITY NJ	0.94 NW	+ 139	N/A
545	STATE	461 469 NEWARK AVENUE 464705/ACTIVE	461 NEWARK AVE JERSEY CITY NJ	0.94 SW	+ 25	N/A
551	STATE	CARNIVAL CLEANERS G000005423/CLOSED	609 JERSEY AVE JERSEY CITY NJ	0.94 SW	0	N/A
559	STATE	TARRAGON CORP BLOCK 100 288313/ACTIVE	1024 ADAMS ST HOBOKEN CITY NJ	0.95 NE	+ 4	N/A
554	STATE	NORTHVALE 3B ASSOC 017373/ACTIVE	1000 CLINTON ST HOBOKEN CITY NJ 07030	0.95 NE	+ 1	N/A
558	STATE	922 PARK AVENUE G000031387/CLOSED	922 PARK AVE HOBOKEN NJ 07030	0.95 NE	+ 2	N/A
558	STATE	922 PARK AVENUE NJL800301467/KCSNJ	922 PARK AVE HOBOKEN NJ 07030	0.95 NE	+ 2	N/A
554	STATE	1000 CLINTON ST NJL800469892/KCSNJ	1000 CLINTON ST HOBOKEN NJ 07030	0.95 NE	+ 1	N/A
557	STATE	800 HUDSON STREET 459862/CLOSED	800 HUDSON ST HOBOKEN NJ 07030	0.95 NE	+ 31	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
556	STATE	77 ERIE STREET 286008/CLOSED	77 ERIE ST JERSEY CITY NJ	0.95 SW	+ 8	N/A
555	STATE	313 5TH STREET G000035596/CLOSED	313 5TH ST JERSEY CITY NJ	0.95 SW	0	N/A
564	STATE	841 BLOOMFIELD STREET 258594/ACTIVE	841 BLOOMFIELD ST HOBOKEN NJ 07030	0.96 NE	+ 11	N/A
560	STATE	1040 GRAND ST ASSOCIATES 026069/ACTIVE	1040 GRAND ST HOBOKEN CITY NJ 07030	0.96 NE	+ 3	N/A
563	STATE	815 WASHINGTON STREET 483178/CLOSED	815 WASHINGTON ST HOBOKEN NJ 07030	0.96 NE	+ 18	N/A
560	STATE	1040 GRAND STREET ASSOCIATES NJL800192270/KCSNJ	1040 GRAND ST HOBOKEN NJ 07030	0.96 NE	+ 3	N/A
561	STATE	3244 KENNEDY BLVD 032147/CLOSED	3244 KENNEDY BLVD JERSEY CITY NJ	0.96 NW	+ 107	N/A
562	STATE	561 SUMMIT AVENUE 452291/ACTIVE	561 SUMMIT AVE JERSEY CITY NJ	0.96 SW	+ 89	N/A
572	STATE	GIRL SCOUT BUILDING NJL800357410/KCSNJ	916 GARDEN ST HOBOKEN NJ 07030	0.97 NE	+ 5	N/A
572	STATE	916 GARDEN STREET G000031478/ACTIVE	916 GARDEN ST HOBOKEN NJ 07030	0.97 NE	+ 5	N/A
569	STATE	3236 KENNEDY BOULEVARD G000024594/CLOSED	3236 KENNEDY BLVD JERSEY CITY NJ	0.97 NW	+ 109	N/A
565	STATE	186-188 SOUTH STREET 238685/CLOSED	186 SOUTH ST JERSEY CITY NJ	0.97 NW	+ 139	N/A
567	STATE	255 BALDWIN AVENUE 456591/CLOSED	255 BALDWIN AVE JERSEY CITY NJ	0.97 SW	+ 73	N/A
568	STATE	278 4TH STREET 283028/ACTIVE	278 4TH ST JERSEY CITY NJ	0.97 SW	0	N/A
570	STATE	34 A MAGNOLIA AVENUE 551485/ACTIVE	34 MAGNOLIA AVE JERSEY CITY NJ 07306	0.97 SW	+ 68	N/A
566	STATE	225 ST PAUL CONDO ASSOC 021287/ACTIVE	225 PAULS AVE JERSEY CITY NJ	0.97 SW	+ 91	N/A
571	STATE	366 5TH STREET 207610/CLOSED	366 5TH ST JERSEY CITY NJ 07302	0.97 SW	0	N/A
573	STATE	DESIMON AUTO BODY 265202/ACTIVE	380 NEWARK AVE JERSEY CITY NJ	0.97 SW	+ 5	N/A
574	STATE	ATLANTIC STEAMERS SUPPLY CO 025817/ACTIVE	1100 ADAMS ST HOBOKEN CITY NJ 07030	0.98 NE	+ 8	N/A
577	STATE	260 10TH STREET 463470/CLOSED	260 10TH ST HOBOKEN NJ 07030	0.98 NE	+ 3	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
582	STATE	LMT STEEL PRODUCTS G000043351/ACTIVE	551 11TH ST HOBOKEN CITY NJ 07030	0.98 NE	+ 12	N/A
574	STATE	1100 ADAMS STREET URBAN RENEWA 257397/KCSNJ	1100 ADAMS ST HOBOKEN CITY NJ 07030	0.98 NE	+ 8	N/A
575	STATE	1100-1114 MADISON ST and 1101- 284639/PENDING	1100 MADISON ST HOBOKEN CITY NJ	0.98 NE	+ 12	N/A
583	STATE	VACANT BUILDING AT 1108-1110 J 289321/PENDING	1109 MADISON ST HOBOKEN CITY NJ	0.98 NE	+ 12	N/A
576	STATE	1118 ADAMS STREET URBAN RENEWA 257389/KCSNJ	1118 ADAMS ST HOBOKEN CITY NJ 07030	0.98 NE	+ 10	N/A
579	STATE	3279 KENNEDY BLVD 302455/CLOSED	3279 KENNEDY BLVD JERSEY CITY NJ	0.98 NW	+ 101	N/A
580	STATE	3289 JOHN F KENNEDY BOULEVARD 246839/ACTIVE	3289 KENNEDY BLVD JERSEY CITY NJ 07306	0.98 NW	+ 102	N/A
578	STATE	269 4TH STREET 423493/CLOSED	269 4TH ST JERSEY CITY NJ	0.98 SW	+ 1	N/A
581	STATE	588 JERSEY AVENUE 455118-367926/PENDING	4TH AVE and JERSEY AVE JERSEY CITY NJ 07302	0.98 SW	+ 1	N/A
581	STATE	4TH AND JERSEY AVE. OIL SPILL 455118/PENDING	4TH AVE and JERSEY AVE JERSEY CITY NJ	0.98 SW	+ 1	N/A
589	STATE	920 BLOOMFIELD STREET 191911/PENDING	920 BLOOMFIELD ST HOBOKEN NJ 07030	0.99 NE	+ 8	N/A
592	STATE	STEVENS INSTITUTE OF TECH RESI 236592/CLOSED	800 CASTLE POINT TER HOBOKEN NJ 07030	0.99 NE	+ 59	N/A
588	STATE	919 BLOOMFIELD STREET 164256/CLOSED	919 BLOOMFIELD ST HOBOKEN NJ 07030	0.99 NE	+ 10	N/A
591	STATE	MUHLENBERG GARDENS 237925/ACTIVE	1065 SUMMIT APT 1G AVE JERSEY CITY NJ 07307	0.99 NW	+ 150	N/A
585	STATE	322 4TH STREET 207604/CLOSED	322 4TH ST JERSEY CITY NJ	0.99 SW	0	N/A
584	STATE	281 4TH STREET 252063/CLOSED	281 4TH ST JERSEY CITY NJ	0.99 SW	0	N/A
586	STATE	427 427 1/ 2 MONMOUTH STREET 214336/PENDING	427 1/2 MONMOUTH ST JERSEY CITY NJ 07302	0.99 SW	0	N/A
587	STATE	590 1/2 JERSEY AVENUE G000010732/PENDING	590 JERSEY AVE JERSEY CITY NJ	0.99 SW	+ 2	N/A
590	STATE	ATTANASIO GARAGE 018911/CLOSED	380 5TH ST JERSEY CITY NJ	0.99 SW	+ 3	N/A
596	STATE	935 GARDEN STREET 516650/CLOSED	935 GARDEN ST HOBOKEN NJ 07030	1.00 NE	+ 6	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
593	STATE	3369 JOHN F KENNEDY BOULEVARD 255037/CLOSED	3369 JOHN F KENNEDY BLVD JERSEY CITY NJ 07307	1.00 NW	+ 128	N/A
594	STATE	590 1/2 JERSEY AVENUE NJL000060194/KCSNJ	590 JERSEY AVE JERSEY CITY NJ 07302	1.00 SW	+ 2	N/A
595	STATE	592 PAVONIA AVE G000061291/CLOSED	592 PAVONIA AVE JERSEY CITY NJ	1.00 SW	+ 80	N/A
594	STATE	588 JERSEY AVENUE 455118-67092/PENDING	590 JERSEY AVE JERSEY CITY NJ 07302	1.00 SW	+ 2	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	ERNS	HOBOKEN TERMINAL NRC-975632/RAILROAD NON-RELEASE	HOBOKEN TERMINAL HOBOKEN NJ 07030	NON GC	N/A	N/A
	ERNS	HOBOKEN TRAIN STATION NRC-975636/RAILROAD NON-RELEASE	HOBOKEN TERMINAL HOBOKEN NJ 07030	NON GC	N/A	N/A
	ERNS	NJ TRANSIT 604674/RAILROAD	HOBOKEN RAIL YARD HOBOKEN NJ	NON GC	N/A	N/A
	ERNS	MP: 0.4 NRC-834429/RAILROAD NON-RELEASE	HOBOKEN AVE HOBOKEN NJ	NON GC	N/A	N/A
	LUST	RESIDENCE 10-11-16-1245-40/TERMINATED	103 BELMONT AVE JERSEY CITY NJ 07310	NON GC	N/A	N/A
	LUST	RESIDENCE 08-07-10-1342-46/TERMINATED	398 ODGEN AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	LUST	RESIDENCE 09-06-02-1214-36/TERMINATED	142 NEWARK AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	LUST	RESIDENCE 10-01-07-1139-06/TERMINATED	233 STEVENS AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	LUST	RESIDENCE 10-07-15-1332-19/TERMINATED	267 WEBSTER AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	LUST	RESIDENCE 10-07-15-1327-17/TERMINATED	265 WEBSTER AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	LUST	RESID 09-11-23-1045-26/TERMINATED	102 MANHATTAN AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	LUST	BLOCK 99 , LOTS 1-32 05-11-23-1223-31/TERMINATED	MADISON ST and JEFFERSON ST HOBOKEN NJ	NON GC	N/A	N/A
	LUST	RESIDENCE 07-12-12-1410-23/TERMINATED	208 COLUMBA AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	LUST	RESID 10-09-24-1226-09/TERMINATED	1217 BLOOMFIELD AVE HOBOKEN NJ 07030	NON GC	N/A	N/A
	LUST	PROPERTY LOCATED AT 09-01-08-1509-15/TERMINATED	1201 SUMMIT AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	LUST	AREA OF 10-03-09-1229-08/TERMINATED	3424 JOHN F KENNEDY BLVD JERSEY CITY NJ 07307	NON GC	N/A	N/A
	LUST	RESIDENCE 02-07-16-1241-43/TERMINATED	511 PARK ST HOBOKEN NJ	NON GC	N/A	N/A
	LUST	RESID 07-12-11-1328-40/TERMINATED	318 HUDSON ST HOBOKEN CITY NJ 07030	NON GC	N/A	N/A
	LUST	RandS MANUFACTURING CO INC 97-1-21-1520-14/U.S.T.	115 BROAD ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	LUST	BLOCK 88, LOTS 1 THROUGH 32 06-03-03-1120-13/TERMINATED	MADISON ST and MONROE ST HOBOKEN NJ 07030	NON GC	N/A	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	LUST	AREA OF 06-06-01-1024-01/CONTINUOUS	HARRISON ST HOBOKEN NJ	NON GC	N/A	N/A
	LUST	RESIDENCE 08-08-26-1409-18/TERMINATED	68 PARK AVE HOBOKEN CITY NJ 07030	NON GC	N/A	N/A
	RCRAGN	R.E.D. REAL ESTATE DEVELOPMENT NJN008023046/VGN	NEWARK AVE HOBOKEN NJ 07030	NON GC	N/A	N/A
	RCRAGN	LATIN AMERICAN AUTO BODY NJN008023012/VGN	NEWARK AVE HOBOKEN NJ 07030	NON GC	N/A	N/A
	RCRAGN	MADISON IRON WORKS NJN008023004/VGN	NEWARK AVE HOBOKEN NJ 07030	NON GC	N/A	N/A
	RCRAGN	EXXONMOBIL OIL CORP 30593 NJR000076737/SGN	854 JERSEY ST JERSEY CITY NJ 07310	NON GC	N/A	N/A
	SPILLS	PIER A 06-11-20-1547-09/CONTINUOUS	1ST ST HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	BLOCK 88, LOTS 1 THROUGH 32 06-03-03-1120-13/TERMINATED	MADISON ST and MONROE ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	RESIDENCE 09-06-02-1214-36/TERMINATED	142 NEWARK AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	SPILLS	CORNER OF 08-06-17-1003-59/TERMINATED	NEWARK ST and WILLOW AVE HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	HARRISON REALTY ASSOC PROPERTY 06-02-02-0054-31/TERMINATED	600 HARRISON ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	HOBOKEN RAIL YARD 00-01-13-1654-52/SPILL	OBSERVER HWY HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	CHINESE RESTAURANT AT THE INTE 05-08-24-0946-12/CONTINUOUS	3RD ST and JACKSON ST HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	MUNICIPAL PARKING AREA 90-08-20-1010/SPILL	OBSERVER HWY HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	NJ TRANSIT HOBOKEN RAILYARD 02-05-15-1422-00/TERMINATED	OBSERVER HWY HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	NJ TRANSIT HOBOKEN RAILYARD 02-05-14-0901-21/TERMINATED	OBSERVER HWY HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	NJ TRANSIT HOBOKEN RAIL YARD 98-12-13-1116-35/SPILL	OBSERVER HWY HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	AREA OF 07-09-26-0914-58/CONTINUOUS	509 JACKSON ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	AREA OF 06-05-15-1104-18/CONTINUOUS	JACKSON ST and 4TH ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	AREA OF 08-06-16-1353-50/TERMINATED	HARRISON ST and MADISON AV HOBOKEN NJ	NON GC	N/A	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SPILLS	RIVERLINE MAINLINE 98-05-27-1750-15/TRAIN DERAILMENT	HOBOKEN AVE HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	AREA OF 06-06-01-1024-01/CONTINUOUS	HARRISON ST HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	HOBOKEN RAIL YARD 09-11-17-0946-06/CONTINUOUS	OBSERVER HWY HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	ALONG RAILROAD TRACKS 91-11-1-1151-35/SOIL CONTAMINATION	OBSERVER HWY HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	AREA OF 05-10-13-0737-44/TERMINATED	4TH ST and JACKSON ST HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	PARKING LOT AT THE END OF 08-01-02-1452-52/CONTINUOUS	JACKSON ST HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	AT 06-07-16-1441-54/TERMINATED	OBSERVER HWY and HENDERSON HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	INTERSECTION OF MARIN BLVD AND 08-10-07-1530-09/TERMINATED	OBSERVER HWY HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	JACKSON ST BETWEEN SIXTH ST AN 02-07-31-1149-46/INTERMITTENT	JACKSON ST and 6TH ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	PATERSON PLANK RD. AT 11-02-09-1130-52/CONTINUOUS	MARSHALL ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	RIVERLINE MAINLINE 98-5-27-1750-15/SPILL,TRAIN DERAIL	HOBOKEN AVE HOBOKEN NJ 07030	NON GC	N/A	N/A
	SPILLS	AT THE CONSTRUCTION SITE 04-02-27-1018-10/CONTINUOUS	JEFFERSON ST and NEWARK ST HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	AT PIER A 04-10-08-0917-35/CONTINUOUS	1ST ST HOBOKEN NJ	NON GC	N/A	N/A
	SPILLS	PATH TERMINAL 01-09-20-2246-34	OBSERVER HWY HOBOKEN NJ 07030	NON GC	N/A	N/A
	STATE	265 WEBSTER AVENUE 547108/CLOSED	265 WEBSTER AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	STATE	1201 SUMMIT AVENUE 491216/CLOSED	1201 SUMMIT AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A
	STATE	CONNORS SCHOOL 025080/CLOSED	MONROE ST and 2ND ST HOBOKEN NJ	NON GC	N/A	N/A
	STATE	SINGER PROPERTY HOBOKEN 237528/ACTIVE	1708 ADAMS ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	STATE	HUDSON COUNTY CHROMATE 98 G000008721/ACTIVE	SECAUCUS ROAD JERSEY CITY NJ 07307	NON GC	N/A	N/A
	STATE	267 WEBSTER AVENUE 545174/CLOSED	267 WEBSTER AVE JERSEY CITY NJ 07307	NON GC	N/A	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

TOTAL: 1040 **GEOCODED:** 965 **NON GEOCODED:** 75 **SELECTED:** 210

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	STATE	HOBOKEN LAND BUILDING CORP 171448/ACTIVE	NEWARK ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	STATE	HARLEE CO 512451/ACTIVE	3424 KENNEDY BLVD JERSEY CITY NJ 07307	NON GC	N/A	N/A
	STATE	HUDSON COUNTY CHROMATE 98 NJL000000984/KCSNJ	SECAUCUS ROAD JERSEY CITY NJ 07307	NON GC	N/A	N/A
	STATE	600 HARRISON STREET 280877/ACTIVE	600 HARRISON ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	STATE	NJDOT ROUTE 139 CONTRACT 2 165112/ACTIVE	12TH 14TH ST VIADUCTS JERSEY CITY NJ 07307	NON GC	N/A	N/A
	STATE	68 PARK AVENUE 512516/CLOSED	68 PARK AVE HOBOKEN NJ 07030	NON GC	N/A	N/A
	STATE	7725 GREENBRIAR ROAD 197291/PENDING	7725 GREENBRIAR RD HOBOKEN NJ 07030	NON GC	N/A	N/A
	SWL	HUDSON TRANSFER SYSTEMS INC 0905000401/INACTIVE	15TH ST BET JEFFERSON and A HOBOKEN NJ	NON GC	N/A	N/A
	TRIBALLAND	BUREAU OF INDIAN AFFAIRS CONTA BIA-07310	UNKNOWN NJ 07310	NON GC	N/A	N/A
	TRIBALLAND	BUREAU OF INDIAN AFFAIRS CONTA BIA-07307	UNKNOWN NJ 07307	NON GC	N/A	N/A
	TRIBALLAND	BUREAU OF INDIAN AFFAIRS CONTA BIA-07030	UNKNOWN NJ 07030	NON GC	N/A	N/A
	UST	FIELDS CONSTRUCTION 015499/NO TANK DATA	1 HENDERSON ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	VCP	NINTH STREET PROPERTIES 98-03-17-1442-21B/VCP	9TH ST and JACKSON ST HOBOKEN NJ 07030	NON GC	N/A	N/A
	VCP	1622-1636 PARK AVENUE 06-01-10-1533-15/VCP	1622 PARK AVE WEEHAWKEN NJ 07030	NON GC	N/A	N/A
	VCP	600 HARRISON STREET 06-02-02-0054-31/VCP	600 HARRISON ST HOBOKEN NJ 07030	NON GC	N/A	N/A

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

FIMAP

SEARCH ID: 885 **DIST/DIR:** 0.00 -- **ELEVATION:** **MAP ID:** 1

NAME: FIRE INSURANCE MAP
ADDRESS:
HOBOKEN NJ 07030
CONTACT:
SOURCE:

REV: 11/18/98
ID1: POLY-19274
ID2:
STATUS: SANBORN
PHONE:

SITE INFORMATION

SOURCE COLLECTION: SANBORN

NUMBER OF MAPS: UNDETERMINED

POSSIBLE MAP LOCATION

HUDSON COUNTY

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 657 **DIST/DIR:** 0.03 SW **ELEVATION:** 10 **MAP ID:** 2

NAME: M and F DIESEL SERVICE
ADDRESS: 56 HARRISON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-3-1-1405-56
ID2:
STATUS: SLOPPY HOUSEKEEPING
PHONE:

INCIDENT DATE: 3/01/1992 **RECEIVED DATE:** 3/01/1992
INCIDENT TIME: 0930 **OPERATOR:** CARM

LOCATION TYPE: INDUSTRIAL

NATURE OF INCIDENT: MUNICIPAL **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** SOLID
SUBSTANCES: PETROLEUM HYDROCARBONS WASTE
SUBSTANCE NAME: DRUMS
CAS No.
AMOUNT RELEASED: **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:**

INCIDENT DESCRIPTION: SLOPPY HOUSEKEEPING
STATUS AT SCENE:
WASTE PRODUCT FROM OPERATIONS STORED IN DRUMS AT LOCATION.DRUMS ARE SECURE NOT LEAKING.
CONTAMINATION: NONE **RECEIVING WATER:** NONE

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** U
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: **STATUS:** KNOWN
CONTACT: V.PONTE **TITLE:** PROP OWNER
ADDRESS: 511 CANAL ST
NEW YORK CITY, NY
PHONE: 212-966-5420 **COUNTY:**

CALLER NAME: MIKE LISA **TITLE:** FIRE DEPT
ADDRESS:
HOBOKEN, NJ
PHONE: 201-420-2004

NJSP NAME: OEM **TITLE:**
PHONE: 609-882-2000
DATE: 3/01/1992 **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** OEP
REGION: METRO **PHONE:** FAXED,MAILED
DATE: 3/01/1992 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 657 **DIST/DIR:** 0.03 SW **ELEVATION:** 10 **MAP ID:** 2

NAME: M and F DIESEL SERVICE
ADDRESS: 56 HARRISON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-3-1-1405-56
ID2:
STATUS: SLOPPY HOUSEKEEPING
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

FIMAP

SEARCH ID: 884 **DIST/DIR:** 0.04 NW **ELEVATION:** **MAP ID:** 7

NAME: FIRE INSURANCE MAP
ADDRESS:
JERSEY CITY NJ 07307
CONTACT:
SOURCE:

REV: 11/18/98
ID1: POLY-19270
ID2:
STATUS: SANBORN
PHONE:

SITE INFORMATION

SOURCE COLLECTION: SANBORN

NUMBER OF MAPS: UNDETERMINED

POSSIBLE MAP LOCATION

HUDSON COUNTY

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 670 **DIST/DIR:** 0.04 NW **ELEVATION:** 10 **MAP ID:** 5

NAME: ROADWAY
ADDRESS: 99 PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 90-08-24-0931
ID2:
STATUS: SPILL,MVA
PHONE:

INCIDENT DATE: 8/21/1990 **RECEIVED DATE:** 8/24/1990
INCIDENT TIME: 1330 **OPERATOR:** JIMH

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** TRANSPORT
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: OIL MOTOR
CAS No.
AMOUNT RELEASED: 10 GAL **VERIFICATION:** ESTIMATE
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: SPILL,MVA
STATUS AT SCENE:

CONTAMINATION: **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: Y **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** Y
ASST. REQUESTED: N

SPILLER NAME: RUTGERS EXPRESS **STATUS:** KNOWN
CONTACT: LARRY KOVACS **TITLE:** MGR.
ADDRESS: 6 CONNERTY CT.
EAST BRUNSWICK, NJ
PHONE: 201-257-2300 **COUNTY:** MIDDLESEX

CALLER NAME: LARRY KOVACS **TITLE:** RUTGERS EXPRESS
ADDRESS:
,
PHONE: 201-257-2300

NJSP NAME: **TITLE:** OEM
PHONE:
DATE: 8/24/1990 **TIME:**

MUNICIPAL: PTL. DEMAYO **TITLE:** HOBOKEN P.D.
PHONE: 201-420-2100
DATE: 8/24/1990 **TIME:** 0938

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DHWM
REGION: METRO **PHONE:**
DATE: 8/24/1990 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 670 **DIST/DIR:** 0.04 NW **ELEVATION:** 10 **MAP ID:** 5

NAME: ROADWAY
ADDRESS: 99 PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 90-08-24-0931
ID2:
STATUS: SPILL,MVA
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 652 **DIST/DIR:** 0.04 NW **ELEVATION:** 10 **MAP ID:** 5

NAME: IN FRONT OF
ADDRESS: 99 PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 93-5-21-1235-41
ID2:
STATUS: MVA,SPILL
PHONE:

INCIDENT DATE: 5/21/1993 **RECEIVED DATE:** 5/21/1993
INCIDENT TIME: 1228 **OPERATOR:** RICH

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: MUNICIPAL **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: OIL TRANSMISSION
CAS No.
AMOUNT RELEASED: 1 GAL **VERIFICATION:** ESTIMATE
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: MVA,SPILL
STATUS AT SCENE:
SPILL ON ROADWAY ONLY, CONTAINED WITH SPEEDI-DRI BY F.D., TOWN DPW PICKING UP SPEEDI-DRI AND CLEANING STREET
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: Y **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** Y
ASST. REQUESTED: N

SPILLER NAME: **STATUS:** UNKNOWN
CONTACT: **TITLE:**
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: DISP 13 **TITLE:** HOBOKEN F.D.
ADDRESS:
HOBOKEN, NJ
PHONE: 201-420-2004

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-SA **PHONE:** FAXED,MAILED
DATE: 5/21/1993 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 652 **DIST/DIR:** 0.04 NW **ELEVATION:** 10 **MAP ID:** 5

NAME: IN FRONT OF
ADDRESS: 99 PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 93-5-21-1235-41
ID2:
STATUS: MVA,SPILL
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 742 **DIST/DIR:** 0.04 SE **ELEVATION:** 10 **MAP ID:** 3

NAME: DINER
ADDRESS: 61 JACKSON ST
HOBOKEN CITY NJ 07020
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 08-01-29-1729-28
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 1/29/2008
RECEIVED DATE: 1/29/2008
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: COMMERCIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL HEATING 2
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: ATLANTIC ENV SOLUTIONS
REPORTER RECEIVED DATE: 1/29/2008

SOURCE INFORMATION

CALVIN FURINO
C/O ROBERT MATULE, ESQ 70 HUDSON STREET
HOBOKEN CITY NJ
CONTACT: ROBERT MATULE, ESQ

HISTORICAL SOIL CONTAMINATION FOUND ABOVE FORMERLY UST SITE. CLEANUP COMPLETE.

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 654 **DIST/DIR:** 0.04 SE **ELEVATION:** 11 **MAP ID:** 6

NAME: IN ROADWAY
ADDRESS: JACKSON ST and OBSERVER HWY
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 90-04-27-1644
ID2:
STATUS: SPILL
PHONE:

INCIDENT DATE: 4/27/1990 **RECEIVED DATE:** 4/27/1990
INCIDENT TIME: 1545 **OPERATOR:** JOES

LOCATION TYPE: RESIDENTIAL

NATURE OF INCIDENT: MUNICIPAL **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: DIESEL FUEL
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: SPILL
STATUS AT SCENE:

CONTAMINATION: **RECEIVING WATER:** UNK

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** Y **FACILITY EVACUATION:** N
POLICE AT SCENE: Y **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** Y
ASST. REQUESTED: N

SPILLER NAME: **STATUS:** UNKNOWN
CONTACT: **TITLE:**
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: JUAN TORRES **TITLE:** HOBOKEN FD DISP
ADDRESS:
,
PHONE: 201-420-2007

NJSP NAME: OEM **TITLE:**
PHONE:
DATE: 4/27/1990 **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: MATT GARAMONE **REFERRAL:** DEQ
REGION: ER1 **PHONE:** ANS PAGE
DATE: 4/27/1990 **TIME:** 1655
FAX/MAIL: T

NAME: **REFERRAL:** DEQ

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 654 **DIST/DIR:** 0.04 SE **ELEVATION:** 11 **MAP ID:** 6

NAME: IN ROADWAY
ADDRESS: JACKSON ST and OBSERVER HWY
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 90-04-27-1644
ID2:
STATUS: SPILL
PHONE:

REGION: HQ1
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 245 **DIST/DIR:** 0.04 SE **ELEVATION:** 10 **MAP ID:** 3

NAME: 61 JACKSON STREET
ADDRESS: 61 JACKSON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 461126
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

STATE

SEARCH ID: 557 **DIST/DIR:** 0.04 SE **ELEVATION:** 10 **MAP ID:** 4

NAME: OBSERVER HIGHWAY REDEVELOPMENT PROJECT
ADDRESS: OBSERVER HWY
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL000031880
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL000031880
SUBSECTION LABEL: SITES WITH CLOSED CASE(S) WITH RESTRICTIONS
COMU: 0905
STATUS: NO FURTHER ACTION ISSUED PRIOR TO JANUARY 1, 1997
DATE: 5/23/90 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE: SOIL CONTAMINATION REMAINING
CONTACT: BUREAU OF CASE MANAGEMENT (609) 633-1455

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 558 **DIST/DIR:** 0.04 SE **ELEVATION:** 10 **MAP ID:** 4

NAME: OBSERVER HIGHWAY REDEVELOPMENT PROJECT
ADDRESS: OBSERVER HWY
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000008902
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

FIMAP

SEARCH ID: 886 **DIST/DIR:** 0.04 SW **ELEVATION:** **MAP ID:** 8

NAME: FIRE INSURANCE MAP
ADDRESS:
JERSEY CITY NJ 07310
CONTACT:
SOURCE:

REV: 11/18/98
ID1: POLY-19282
ID2:
STATUS: SANBORN
PHONE:

SITE INFORMATION

SOURCE COLLECTION: SANBORN

NUMBER OF MAPS: UNDETERMINED

POSSIBLE MAP LOCATION

HUDSON COUNTY

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 655 **DIST/DIR:** 0.05 NE **ELEVATION:** 11 **MAP ID:** 9

NAME: IN THE AREA OF
ADDRESS: 76 JACKSON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 97-1-23-1409-23
ID2:
STATUS: ODORS
PHONE:

INCIDENT DATE: 1/23/1997 **RECEIVED DATE:** 1/23/1997
INCIDENT TIME: ONGO **OPERATOR:** ROB

LOCATION TYPE: RESIDENTIAL

NATURE OF INCIDENT: CITIZEN **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:**
SUBSTANCES:
SUBSTANCE NAME: ODORS
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** INTERMITTENT

INCIDENT DESCRIPTION: ODORS
STATUS AT SCENE:
STRONG PAINT ODORS COMING FROM FACILITY.
CONTAMINATION: AIR **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** N
INJURIES: N **PUBLIC EXPOSURE:** Y **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: Y

SPILLER NAME: J and G AUTOBODY **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS: JACKSON ST
HOBOKEN, NJ
PHONE: **COUNTY:** HUDSON

CALLER NAME: SUE BOWMAN **TITLE:** CITIZEN
ADDRESS: 76 JACKSON ST
HOBOKEN, NJ
PHONE: 201-656-5667

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** OEP-AIR
REGION: METRO **PHONE:**
DATE: 1/23/1997 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 655 **DIST/DIR:** 0.05 NE **ELEVATION:** 11 **MAP ID:** 9

NAME: IN THE AREA OF
ADDRESS: 76 JACKSON ST
HOBOKEN NJ 07030

CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 97-1-23-1409-23
ID2:
STATUS: ODORS
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

FIMAP

SEARCH ID: 883 **DIST/DIR:** 0.05 SW **ELEVATION:** **MAP ID:** 11

NAME: FIRE INSURANCE MAP
ADDRESS:
JERSEY CITY NJ 07306
CONTACT:
SOURCE:

REV: 11/18/98
ID1: POLY-19269
ID2:
STATUS: SANBORN
PHONE:

SITE INFORMATION

SOURCE COLLECTION: SANBORN

NUMBER OF MAPS: UNDETERMINED

POSSIBLE MAP LOCATION

HUDSON COUNTY

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 664 **DIST/DIR:** 0.05 SW **ELEVATION:** 10 **MAP ID:** 10

NAME: OPEN LOT ACROSS FROM
ADDRESS: 49 HARRISON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 90-02-15-1318
ID2:
STATUS: ILLEGAL DUMPING
PHONE:

INCIDENT DATE: 12/01/1989 **RECEIVED DATE:** 2/15/1990
INCIDENT TIME: **OPERATOR:** JIMH

LOCATION TYPE: RESIDENTIAL

NATURE OF INCIDENT: CITIZEN **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** SOLID
SUBSTANCES:
SUBSTANCE NAME: SOLID WASTE, GARBAGE/TRASH
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** INTERMITTENT

INCIDENT DESCRIPTION: ILLEGAL DUMPING
STATUS AT SCENE:

CONTAMINATION: **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** N
INJURIES: N **PUBLIC EXPOSURE:** Y **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: Y

SPILLER NAME: CITY OF HOBOKEN **STATUS:** SUSPECTED
CONTACT: **TITLE:**
ADDRESS:
HOBOKEN, NJ
PHONE: **COUNTY:** HUDSON

CALLER NAME: MR. SMITHIE **TITLE:** CIT
ADDRESS:
,
PHONE: 201-714-9726

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: DSWM **REFERRAL:** DSWM
REGION: HQ1 **PHONE:**
DATE: 2/15/1990 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 664 **DIST/DIR:** 0.05 SW **ELEVATION:** 10 **MAP ID:** 10

NAME: OPEN LOT ACROSS FROM
ADDRESS: 49 HARRISON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 90-02-15-1318
ID2:
STATUS: ILLEGAL DUMPING
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 667 **DIST/DIR:** 0.05 SW **ELEVATION:** 10 **MAP ID:** 10

NAME: REAR OF
ADDRESS: 49 HARRISON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-5-27-1720-06
ID2:
STATUS: TRAIN DERAILMENT
PHONE:

INCIDENT DATE: 5/27/1998 **RECEIVED DATE:** 7/24/1998
INCIDENT TIME: 1701 **OPERATOR:** JON

LOCATION TYPE: INDUSTRIAL

NATURE OF INCIDENT: MUNICIPAL **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:**
SUBSTANCES:
SUBSTANCE NAME: NONE
CAS No.
AMOUNT RELEASED: NONE **VERIFICATION:**
SUBSTANCE CONTAINED: **TYPE OF SPILL:**

INCIDENT DESCRIPTION: TRAIN DERAILMENT
STATUS AT SCENE:
2 TRAIN CARS DERAILED.1 TANKER THAT HAD PHOSPHURIC ACID OTHER NOT A TANKER.FD REQ ASSIST
CONTAMINATION: NONE **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** N
INJURIES: U **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: Y **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** Y
ASST. REQUESTED: Y

SPILLER NAME: CONRAIL **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: OPR 13 **TITLE:** FIRE DEPT
ADDRESS:
HOBOKEN, NJ
PHONE: 201-420-2004

NJSP NAME: OEM **TITLE:** TPR BROWN
PHONE: 609-882-2000
DATE: 5/27/1998 **TIME:** 1729

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: DAVE BERZINS **REFERRAL:** DRPSR
REGION: ER1 **PHONE:**
DATE: 5/27/1998 **TIME:** 1726
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 667 **DIST/DIR:** 0.05 SW **ELEVATION:** 10 **MAP ID:** 10

NAME: REAR OF
ADDRESS: 49 HARRISON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-5-27-1720-06
ID2:
STATUS: TRAIN DERAILMENT
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 668 **DIST/DIR:** 0.05 SW **ELEVATION:** 10 **MAP ID:** 10

NAME: REAR OF
ADDRESS: 49 HARRISON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 02/10/99
ID1: 98-05-27-1720-06
ID2:
STATUS: TRAIN DERAILMENT
PHONE:

DETAILS NOT AVAILABLE

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 704 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INC
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 92-6-19-1045-05
ID2:
STATUS: LUST, SOIL CONTAMINATION
PHONE:

INCIDENT DATE: 6/18/1992 **RECEIVED DATE:** 6/19/1992
INCIDENT TIME: 1430 **OPERATOR:** RICH

LOCATION TYPE: INDUSTRIAL

NATURE OF INCIDENT: OTHER **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** SOLID
SUBSTANCES:
SUBSTANCE NAME: SOIL CONTAMINATED WITH OIL FUEL
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** CONTINUOUS

INCIDENT DESCRIPTION: LUST, SOIL CONTAMINATION
STATUS AT SCENE:
1-8000 GAL TANK ABANDONED IN PLACE HAS SOME SOIL CONTAMINATION AROUND TANK, FOUND WITH SOIL BORINGS, SOME REMEDIAL WORK POSSIBLY SHOULD BE DONE
CONTAMINATION: LAND **RECEIVING WATER:** NONE

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: ALBEE SERVICES INC **STATUS:** KNOWN
CONTACT: H K SHAH **TITLE:** OWNER
ADDRESS: 410 8TH ST
HOBOKEN, NJ
PHONE: 201-792-6335 **COUNTY:** HUDSON

CALLER NAME: STAN SMOLINSKI **TITLE:** ACCUTECH ENV SVC
ADDRESS: CASS ST and RT 35
KEYPORT, NJ
PHONE: 908-739-6444

NJSP NAME: OEM **TITLE:**
PHONE: 609-882-2000
DATE: 6/19/1992 **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPER 22
PHONE: 201-420-2004
DATE: 6/19/1992 **TIME:** 1103

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BUST **PHONE:** FAXED,MAILED
DATE: 6/19/1992 **TIME:** 1103
FAX/MAIL: B

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 704 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INC
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 92-6-19-1045-05
ID2:
STATUS: LUST, SOIL CONTAMINATION
PHONE:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 8 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: CHAMBORD PRINTS, INC.
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: EPA

REV: 7/11/11
ID1: NJD980582878
ID2:
STATUS: LGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: RICHARD LINDSAY
38 JACKSON ST
HOBOKEN NJ 07030

PHONE: 2017952007

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA PERMIT: *N - NO*
GPRA POST CLOSURE: *N - NO*
GPRA CA: *N - NO*
GPRA COMPLIANCE MONITORING and ENFORCEMENT: *Y*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO

SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC: N - NO
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: LQG - LARGE QUANTITY GENERATORS: GENERATES MORE THAN 1000 KG/MONTH OF HAZARDOUS WASTE

NAIC INFORMATION

322221 - COATED AND LAMINATED PACKAGING PAPER AND PLASTICS FILM MANUFACTURING
323113 - COMMERCIAL SCREEN PRINTING

ENFORCEMENT INFORMATION:

AGENCY: S - STATE **DATE:** 8/13/1999
TYPE: 120 - WRITTEN INFORMAL

AGENCY: S - STATE **DATE:** 5/5/2000
TYPE: 310 - FINAL 3008(A) COMPLIANCE ORDER

AGENCY: S - STATE **DATE:** 9/8/1993

- Continued on next page -

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 8 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: CHAMBORD PRINTS, INC.
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: EPA

REV: 7/11/11
ID1: NJD980582878
ID2:
STATUS: LGN
PHONE:

TYPE: 120 - WRITTEN INFORMAL

AGENCY: S - STATE **DATE:** 8/5/1996
TYPE: 120 - WRITTEN INFORMAL

AGENCY: S - STATE **DATE:** 8/14/2003
TYPE: 120 - WRITTEN INFORMAL

AGENCY: S - STATE **DATE:** 3/24/1988
TYPE: 120 - WRITTEN INFORMAL

AGENCY: S - STATE **DATE:** 11/20/2001
TYPE: 120 - WRITTEN INFORMAL

AGENCY: S - STATE **DATE:** 11/1/1999
TYPE: 210 - INITIAL 3008(A) COMPLIANCE ORDER

VIOLATION INFORMATION:

VIOLATION NUMBER: 0001 **RESPONSIBLE:** S - STATE
DETERMINED: 3/24/1988 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 12/15/1988
TYPE: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

VIOLATION NUMBER: 0002 **RESPONSIBLE:** S - STATE
DETERMINED: 3/24/1988 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 12/15/1988
TYPE: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

VIOLATION NUMBER: 0003 **RESPONSIBLE:** S - STATE
DETERMINED: 9/8/1993 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 10/8/1993
TYPE: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

VIOLATION NUMBER: 0004 **RESPONSIBLE:** S - STATE
DETERMINED: 9/8/1993 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 10/8/1993
TYPE: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

VIOLATION NUMBER: 0005 **RESPONSIBLE:** S - STATE
DETERMINED: 8/5/1996 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 10/17/1996
TYPE: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

VIOLATION NUMBER: 0006 **RESPONSIBLE:** S - STATE
DETERMINED: 8/5/1996 **DETERMINED BY:** S - STATE
CITATION:

- Continued on next page -

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 8 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: CHAMBORD PRINTS, INC.
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: EPA

REV: 7/11/11
ID1: NJD980582878
ID2:
STATUS: LGN
PHONE:

RESOLVED: 10/17/1996
TYPE: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

VIOLATION NUMBER: 0007 **RESPONSIBLE:** S - STATE
DETERMINED: 8/5/1996 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 10/17/1996
TYPE: GENERATOR-MANIFEST REQUIREMENTS

VIOLATION NUMBER: 0008 **RESPONSIBLE:** S - STATE
DETERMINED: 8/5/1996 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 10/17/1996
TYPE: GENERATOR-MANIFEST REQUIREMENTS

VIOLATION NUMBER: 0009 **RESPONSIBLE:** S - STATE
DETERMINED: 8/13/1999 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 9/28/1999
TYPE: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

VIOLATION NUMBER: 0010 **RESPONSIBLE:** S - STATE
DETERMINED: 11/20/2001 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 11/27/2001
TYPE: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

VIOLATION NUMBER: 0011 **RESPONSIBLE:** S - STATE
DETERMINED: 8/14/2003 **DETERMINED BY:** S - STATE
CITATION:
RESOLVED: 8/25/2003
TYPE: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)

HAZARDOUS WASTE INFORMATION:

Ignitable waste
The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, b

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 640 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INC
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-4-11-1004-30
ID2:
STATUS: MOA
PHONE:

INCIDENT DATE:
INCIDENT TIME:
RECEIVED DATE: 4/11/1996
OPERATOR: PAT

LOCATION TYPE:

NATURE OF INCIDENT: OTHER
INCIDENT LOCATION: FACILITY
SUBSTANCE IDENTITY:
SUBSTANCE STATE:
SUBSTANCES:
SUBSTANCE NAME:
CAS No.
AMOUNT RELEASED:
VERIFICATION:
SUBSTANCE CONTAINED:
TYPE OF SPILL:

INCIDENT DESCRIPTION: MOA
STATUS AT SCENE:
MOA
CONTAMINATION:
RECEIVING WATER:

A310 LETTER: N
TCPA CHEMICAL:
HAZMAT:
INJURIES:
PUBLIC EXPOSURE:
FACILITY EVACUATION:
POLICE AT SCENE:
PUBLIC EVACUATION:
FIREMEN AT SCENE:
ASST. REQUESTED:

SPILLER NAME:
STATUS:
CONTACT:
TITLE:
ADDRESS:
,
PHONE:
COUNTY:
INCIDENT DATE:
RECEIVED DATE: 4/11/1996
INCIDENT TIME:
OPERATOR: PAT

LOCATION TYPE:

NATURE OF INCIDENT: OTHER
INCIDENT LOCATION: FACILITY
SUBSTANCE IDENTITY:
SUBSTANCE STATE:
SUBSTANCES:
SUBSTANCE NAME:
CAS No.
AMOUNT RELEASED:
VERIFICATION:
SUBSTANCE CONTAINED:
TYPE OF SPILL:

INCIDENT DESCRIPTION: MOA
STATUS AT SCENE:
MOA
CONTAMINATION:
RECEIVING WATER:

A310 LETTER: N
TCPA CHEMICAL:
HAZMAT:
INJURIES:
PUBLIC EXPOSURE:
FACILITY EVACUATION:
POLICE AT SCENE:
PUBLIC EVACUATION:
FIREMEN AT SCENE:
ASST. REQUESTED:

SPILLER NAME:
STATUS:

- Continued on next page -

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 640 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INC
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-4-11-1004-30
ID2:
STATUS: MOA
PHONE:

CONTACT: **TITLE:**
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: JANICE DICLAUDIO **TITLE:** NJDEP BFO-CAS
ADDRESS:
,
PHONE: 609-292-2943

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL:

CALLER NAME: JANICE DICLAUDIO **TITLE:** NJDEP BFO-CAS
ADDRESS:
,
PHONE: 609-292-2943

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:** FAXED,MAILED
DATE: 4/11/1996 **TIME:**
FAX/MAIL: B

NAME: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:** FAXED,MAILED
DATE: 4/11/1996 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**
REGION: **PHONE:**

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Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 640 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INC
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-4-11-1004-30
ID2:
STATUS: MOA
PHONE:

DATE:
TIME:
FAX/MAIL:

NAME:
REFERRAL:
REGION:
PHONE:
DATE:
TIME:
FAX/MAIL:

COMMENTS:
MOA

DATE PRINTED:
DATE UPDATED:
DATE FAXED:
DATE A310:

REFERRAL:
REGION:
PHONE:
DATE:
TIME:
FAX/MAIL:

NAME:
REFERRAL:
REGION:
PHONE:
DATE:
TIME:
FAX/MAIL:

COMMENTS:
MOA

DATE PRINTED:
DATE UPDATED:
DATE FAXED:
DATE A310:

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 646 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: CHAMBORD PRINTS
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-4-28-0929-04
ID2:
STATUS: SMOKE
PHONE:

INCIDENT DATE: 4/28/1992 **RECEIVED DATE:** 4/28/1992
INCIDENT TIME: 0700 **OPERATOR:** JULIE1

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: CITIZEN **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** GAS
SUBSTANCES: BLACK
SUBSTANCE NAME: SMOKE
CAS No. N/A
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:**

INCIDENT DESCRIPTION: SMOKE
STATUS AT SCENE:
BETWEEN 7AM TO 9AM EVERY DAY, BLACK SMOKE COMES OUT OF 20IN STACK ON SIDE OF BUILDING
CONTAMINATION: AIR **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** N
INJURIES: N **PUBLIC EXPOSURE:** Y **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: Y

SPILLER NAME: CHAMBORD PRINTS **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS: 38 JACKSON
HOBOKEN, NJ
PHONE: **COUNTY:** HUDSON

CALLER NAME: JANE SULLIVAN **TITLE:** CITIZEN
ADDRESS: 164 AGDEN AVE/APT103
JERSEY CITY, NJ
PHONE: 201-792-5531

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** OEP
REGION: METRO **PHONE:** FAXED,MAILED
DATE: 4/28/1992 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 646 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: CHAMBORD PRINTS
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-4-28-0929-04
ID2:
STATUS: SMOKE
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 647 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: CHAMBORD PRINTS
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-2-4-0905-41
ID2:
STATUS: SMOKE/DUST
PHONE:

INCIDENT DATE: 2/04/1992 **RECEIVED DATE:** 2/04/1992
INCIDENT TIME: 0900 **OPERATOR:** RICH

LOCATION TYPE: INDUSTRIAL

NATURE OF INCIDENT: CITIZEN **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** GAS
SUBSTANCES: BLACK SMOKE
SUBSTANCE NAME: SMOKE
CAS No. N/A
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** CONTINUOUS

INCIDENT DESCRIPTION: SMOKE/DUST
STATUS AT SCENE:
HEAVY BLACK SMOKE COMING OUT OF STACK AT FACILITY THIS AM
CONTAMINATION: AIR **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** N
INJURIES: N **PUBLIC EXPOSURE:** Y **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: Y

SPILLER NAME: CHAMBORD PRINTS **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS: 38 JACKSON ST
HOBOKEN, NJ
PHONE: 201-795-2007 **COUNTY:** HUDSON

CALLER NAME: SGT HENRY REYES **TITLE:** HUDSON CTY OEM
ADDRESS:
, NJ
PHONE: 201-915-1240

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DEQ
REGION: METRO **PHONE:** FAXED
DATE: 2/04/1992 **TIME:** 0909
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 647 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: CHAMBORD PRINTS
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-2-4-0905-41
ID2:
STATUS: SMOKE/DUST
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 671 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: SHAMBORG PAPER
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-7-16-1426-15
ID2:
STATUS: ODORS
PHONE:

INCIDENT DATE: 7/16/1992 **RECEIVED DATE:** 7/16/1992
INCIDENT TIME: ONGOI **OPERATOR:** JIMH

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: OTHER **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** GAS
SUBSTANCES: XYLENE ODORS
SUBSTANCE NAME: ODORS
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** CONTINUOUS

INCIDENT DESCRIPTION: ODORS
STATUS AT SCENE:
STRONG ODORS FROM CLEANING SCREENS,READING OUTSIDE OF SIT IS 10PPM.ER WILL FOLLOW UP WITH REFERRALS.
CONTAMINATION: AIR **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** N
INJURIES: N **PUBLIC EXPOSURE:** U **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: SHAMBORG PAPER **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS: 38 JACKSON ST
HOBOKEN, NJ
PHONE: **COUNTY:** HUDSON

CALLER NAME: BRUCE DOYLE **TITLE:** ER1 /DEPE
ADDRESS:
,
PHONE: 201-669-3959

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** OEP
REGION: METRO **PHONE:** MAILED,FAXED
DATE: 7/16/1992 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

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Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 671 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: SHAMBORG PAPER
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-7-16-1426-15
ID2:
STATUS: ODORS
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 639 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INC
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-6-19-1045-05
ID2:
STATUS: LUST, SOIL CONTAMINATION
PHONE:

INCIDENT DATE: 6/18/1992 **RECEIVED DATE:** 6/19/1992
INCIDENT TIME: 1430 **OPERATOR:** RICH

LOCATION TYPE: INDUSTRIAL

NATURE OF INCIDENT: OTHER **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** SOLID
SUBSTANCES:
SUBSTANCE NAME: SOIL CONTAMINATED WITH OIL FUEL
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** CONTINUOUS

INCIDENT DESCRIPTION: LUST, SOIL CONTAMINATION
STATUS AT SCENE:
1-8000 GAL TANK ABANDONED IN PLACE HAS SOME SOIL CONTAMINATION AROUND TANK, FOUND WITH SOIL BORINGS, SOME REMEDIAL WORK POSSIBLY SHOULD BE DONE
CONTAMINATION: LAND **RECEIVING WATER:** NONE

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: ALBEE SERVICES INC **STATUS:** KNOWN
CONTACT: H K SHAH **TITLE:** OWNER
ADDRESS: 410 8TH ST
HOBOKEN, NJ
PHONE: 201-792-6335 **COUNTY:** HUDSON

CALLER NAME: STAN SMOLINSKI **TITLE:** ACCUTECH ENV SVC
ADDRESS: CASS ST and RT 35
KEYPORT, NJ
PHONE: 908-739-6444

NJSP NAME: OEM **TITLE:**
PHONE: 609-882-2000
DATE: 6/19/1992 **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPER 22
PHONE: 201-420-2004
DATE: 6/19/1992 **TIME:** 1103

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BUST **PHONE:** FAXED,MAILED
DATE: 6/19/1992 **TIME:** 1103
FAX/MAIL: B

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Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 639 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INC
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-6-19-1045-05
ID2:
STATUS: LUST, SOIL CONTAMINATION
PHONE:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 382 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INCORPORATED
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL000048363
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL000048363
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0905
STATUS: ACTIVE
DATE: 5/20/96 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF FIELD OPERATIONS NORTHERN (973) 669-3960

CASE ID: NJL000048363
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0905
STATUS: PENDING
DATE: 4/25/94 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF FUND MANAGEMENT, COMPLIANCE AND COST RECOVERY (609) 633-0719

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 383 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INCORPORATED
ADDRESS: 38 JACKSON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 025935
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0

JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

KNOWN CONTAMINATED SITES LIST 2006 DATA b0

PREFERRED ID: 025935
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 1/23/2001
REMEDIATION LEVEL: C2-Remediation requires a formal design. The source of the contamination is known OR the release has caused ground water contamination.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: None
DEED NOTICE DATE:
ENGINEERING CONTROLS: None
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: BNCM-Bureau of Northern Case Management(formerly BEECRA) (609) 777-0899

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 681 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INCORPORATED
ADDRESS: 38 JACKSON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0259356
ID2: 025935
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: DENNIS SHAH
OWNER ORGANIZATION: ALBEE SERVICES INC
OWNER ADDRESS: 410 8TH ST
Hoboken NJ 07030

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: 0001
TANK SIZE: 8000
TANK CONTENTS: Heating Oil (No. 4)
INSTALL DATE: 1/1/1964
TANK STATUS: Removed
TANK STATUS DATE: 6/18/1992
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 935 **DIST/DIR:** 0.06 SE **ELEVATION:** 11 **MAP ID:** 12

NAME: ALBEE SERVICES INC
ADDRESS: 38 JACKSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 96-04-11-1004-30
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 5/7/1996
CONTACT: Desai Secretary
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

ENGCONTROL

SEARCH ID: 892 **DIST/DIR:** 0.08 NE **ELEVATION:** **MAP ID:** 16

NAME: MILE SQUARE MACHINERY INC.
ADDRESS: 659 ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJ DEP

REV: 4/4/07
ID1: DNA-428
ID2: NJL800404212
STATUS: DEED NOTICE EXTENT
PHONE:

SITE INFORMATION

DEED NOTICE EXTENT DATA

KCSL NUMBER: NJL800404212
CASE IDENTIFIER: 98-05-07-1028-38
NJDEP LEAD UNIT: BUREAU OF FIELD OPERATIONS - NORTHERN OFFICE
DEED NOTICE APPROVED: NOV. 17, 2003
DN PART OF FINAL REMEDY: YES
DEPTH OF CONTAM: 5
SCALE DIGITIZED:
DEED NOTICE AREA(acres): 0.574627
CAP TYPE: Cnrt cap flr-8 quarry proc,geotex,6 concrt pavers
DURATION: INDETERM.

CONTAMINANTS
VOLATILE ORGANIC: BENZENE
SEMI VOLATILE ORGANIC:
METALS: LEAD
PESTICIDES:
CARCINOGENIC PAH:
PCB: AROCLOR-1260
RADIONUCLEIDE:
ASBESTOS:
TOT PETROLEUM HYDRO:
TENT ID COMPOUNDS:
HISTORIC FILL: YES

BENZO CONTAMINATION
[A] ANTHRACENE: YES
[A] PYRENE: YES
[B] FLOURENE: YES
[G,H,I] PERYLENE:
[K] FLOURANTHENE: YES

IDENO [1,2,3-cd] PYRENE:
DIBENZ [A,H] ANTHACENE:
CHRYSENE:
OTHER:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 825 **DIST/DIR:** 0.08 NE **ELEVATION:** 13 **MAP ID:** 14

NAME: RESIDENCE
ADDRESS: 91 JACKSON ST
HOBOKEN CITY NJ

CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 10-08-04-1215-55
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 8/4/2010
RECEIVED DATE: 8/4/2010
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: GASOLINE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: REDATED
REPORTER RECEIVED DATE: 8/4/2010

SOURCE INFORMATION

CONTACT: SCOTT MADISON
91 JACKSON ST
HOBOKEN CITY NJ

1/1000 GAL UST REMOVED. CLEAN UP PENDING

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 669 **DIST/DIR:** 0.08 NE **ELEVATION:** 13 **MAP ID:** 14

NAME: RESIDENCE
ADDRESS: 91 JACKSON ST
HOBOKEN CITY NJ

CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 10-08-04-1215-55
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 8/4/2010
RECEIVED DATE: 8/4/2010
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: GASOLINE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: REDATED
REPORTER RECEIVED DATE: 8/4/2010

SOURCE INFORMATION

CONTACT: SCOTT MADISON
91 JACKSON ST
HOBOKEN CITY NJ

1/1000 GAL UST REMOVED. CLEAN UP PENDING

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

STATE

SEARCH ID: 345 **DIST/DIR:** 0.08 NE **ELEVATION:** 12 **MAP ID:** 13

NAME: 89-91 JACKSON STREET
ADDRESS: 89 JACKSON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 554033
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 673 **DIST/DIR:** 0.08 SE **ELEVATION:** 11 **MAP ID:** 15

NAME: VACANT LOT
ADDRESS: 16 JACKSON ST
HOBOKEN CITY NJ
MIDDLESEX
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 02-10-18-1139-18
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 7/15/2002
RECEIVED DATE: 10/18/2002
INCIDENT TYPE: SOIL CONTAMINATION
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: LEAD
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE:
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: CODE ENVIROSCIENCE
REPORTER RECEIVED DATE: 10/18/2002

SOURCE INFORMATION

JAY AVE ASSOC LLC
811 AMBOY AVE
EDISON TWP NJ
CONTACT: SETH YARONI

DISCOVERED SOIL CONTAMINATION AFTER TAKING SOIL SAMPLES. CLEANUP UNKNOWN

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 775 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MIDWAY INC CORP
ADDRESS: 659 1ST ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-5-7-1028-38
ID2:
STATUS: L.U.S.T.
PHONE:

INCIDENT DATE: 5/06/1998 **RECEIVED DATE:** 5/07/1998
INCIDENT TIME: UNK **OPERATOR:** PAT

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: MINERAL SPIRITS
CAS No. 8030306
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: L.U.S.T.
STATUS AT SCENE:
4/3000 GAL USTS REMOVED. REMEDIATION IN PROGRESS.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: MIDWAY INC CORP **STATUS:** KNOWN
CONTACT: SANFORD REIFF **TITLE:** PRES
ADDRESS: 659 1ST ST
HOBOKEN, NJ
PHONE: 201-659-0401 **COUNTY:** HUDSON

CALLER NAME: RICHARD SCHOTT **TITLE:** SYMMETRY ENVIRO
ADDRESS: 416 E.RIDGEWOOD AVE
PARAMUS, NJ
PHONE: 201-265-9823

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** FF TORRES
PHONE: 201-420-2004
DATE: 5/07/1998 **TIME:** 1032

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 5/07/1998 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 775 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MIDWAY INC CORP
ADDRESS: 659 1ST ST
HOBOKEN NJ 07030

CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-5-7-1028-38
ID2:
STATUS: L.U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 776 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MIDWAY INCORPORATED
ADDRESS: 659 1ST ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 7/11/02
ID1: LU-98-05-07-1028-38
ID2:
STATUS:
PHONE:

SITE INFORMATION

STATUS: AWAITING ASSIGNMENT
NFA DATE:
UST NUMBER: 0228224
TMS NUMBER:
REMEDIAL LEVEL:
LEAD AGENCY: BUREAU OF FIELD OPERATIONS - INITIAL NOTICE
CASE MANAGER:
CM PHONE:
CEA:
DATE CEA LIFTED:
DEAD NOTICE:

NFRAP

SEARCH ID: 4 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 17

NAME: MIDWAY INK CORP.
ADDRESS: 655 1ST ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: EPA

REV: 7/26/11
ID1: NJD001346055
ID2: 0200066
STATUS: NFRAP-N
PHONE:

DESCRIPTION:

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
ARCHIVE SITE	EPA In-House		5/31/1985
DISCOVERY	EPA Fund-Financed		6/1/1981
PRELIMINARY ASSESSMENT LOW PRIORITY FOR FURTHER ASSESSMENT	State, Fund Financed		9/1/1984
SITE INSPECTION NFRAP: NO FURTHER REMEDIAL ACTION PLANNED	EPA Fund-Financed	19-85-5/1/	5/31/1985

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 10 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MIDWAY INK CORP
ADDRESS: 659 1ST ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: EPA

REV: 7/11/11
ID1: NJD001346055
ID2:
STATUS: VGN
PHONE:

CONTACT INFORMATION:

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA CA BASELINE UNIVERSE:	*NO*
GPRA CA 2008:	*NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	NO
SUBJCA TSD 3004:	NO
SUBJCA NON TSD:	NO
SUBJCA TSD DISCRETION:	NO
PERMIT WORKLOAD:	-----
CLOSURE WORKLOAD:	-----
POST CLOSURE WORKLOAD:	-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	-----
CORRECTIVE ACTION WORKLOAD:	NO
GENERATOR STATUS:	CEG
TRANSPORTER:	UNKNOWN
UNIVERSAL WASTE:	UNKNOWN
RECYCLER:	NO
USED OIL:	NO
IMPORTER:	UNKNOWN
MIXED WASTE GENERATOR:	U
ONSITE BURNER EXEMPT:	UNKNOWN
FURNACE EXEMPTION:	UNKNOWN
UNDERGROUND INJECTION:	NO
NAIC 1:	Printing Ink Manufacturing
NAIC 2:	
NAIC 3:	
NAIC 4:	

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 658 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MIDWAY INC CORP
ADDRESS: 659 1ST ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-5-7-1028-38
ID2:
STATUS: L.U.S.T.
PHONE:

INCIDENT DATE: 5/06/1998 **RECEIVED DATE:** 5/07/1998
INCIDENT TIME: UNK **OPERATOR:** PAT

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: MINERAL SPIRITS
CAS No. 8030306
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: L.U.S.T.
STATUS AT SCENE:
4/3000 GAL USTS REMOVED. REMEDIATION IN PROGRESS.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: MIDWAY INC CORP **STATUS:** KNOWN
CONTACT: SANFORD REIFF **TITLE:** PRES
ADDRESS: 659 1ST ST
HOBOKEN, NJ
PHONE: 201-659-0401 **COUNTY:** HUDSON

CALLER NAME: RICHARD SCHOTT **TITLE:** SYMMETRY ENVIRO
ADDRESS: 416 E.RIDGEWOOD AVE
PARAMUS, NJ
PHONE: 201-265-9823

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** FF TORRES
PHONE: 201-420-2004
DATE: 5/07/1998 **TIME:** 1032

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 5/07/1998 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 658 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MIDWAY INC CORP
ADDRESS: 659 1ST ST
HOBOKEN NJ 07030

CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-5-7-1028-38
ID2:
STATUS: L.U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 659 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MIDWAY INK CORPORATION
ADDRESS: 659 1ST ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-5-19-0038-55
ID2:
STATUS: MOA APPLICATION
PHONE:

INCIDENT DATE:
INCIDENT TIME:
RECEIVED DATE: 5/19/1998
OPERATOR: STIVE

LOCATION TYPE:

NATURE OF INCIDENT: OTHER
INCIDENT LOCATION: OTHER
SUBSTANCE IDENTITY: UNKNOWN
SUBSTANCE STATE:
SUBSTANCES:
SUBSTANCE NAME:
CAS No.
AMOUNT RELEASED:
VERIFICATION:
SUBSTANCE CONTAINED:
TYPE OF SPILL:

INCIDENT DESCRIPTION: MOA APPLICATION
STATUS AT SCENE:
MOA APPLICATION
CONTAMINATION:
RECEIVING WATER:

A310 LETTER: N
TCPA CHEMICAL:
HAZMAT:
INJURIES:
PUBLIC EXPOSURE:
FACILITY EVACUATION:
POLICE AT SCENE:
PUBLIC EVACUATION:
FIREMEN AT SCENE:
ASST. REQUESTED:

SPILLER NAME:
STATUS:
CONTACT:
TITLE:
ADDRESS:
,
PHONE:
COUNTY:

CALLER NAME: NATE BYRD
TITLE: BFO-CAS
ADDRESS: 401 EAST STATE ST
TRENTON, NJ
PHONE: 609-292-2943

NJSP NAME:
TITLE:
PHONE:
DATE:
TIME:

MUNICIPAL:
TITLE:
PHONE:
DATE:
TIME:

OTHER NAME:
TITLE:
PHONE:
DATE:
TIME:

NAME:
REFERRAL: DRPSR
REGION: BFO-CAS
PHONE:
DATE: 5/19/1998
TIME:
FAX/MAIL: B

NAME:
REFERRAL:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 659 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MIDWAY INK CORPORATION
ADDRESS: 659 1ST ST
HOBOKEN NJ 07030

CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-5-19-0038-55
ID2:
STATUS: MOA APPLICATION
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 531 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MILE SQUARE MACHINERY INC
ADDRESS: 659 1ST ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 022822
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0

JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

KNOWN CONTAMINATED SITES LIST 2006 DATA b0

PREFERRED ID: 022822
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 3/1/2004
REMEDIATION LEVEL: C2-Remediation requires a formal design. The source of the contamination is known OR the release has caused ground water contamination.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: Ongoing
DEED NOTICE DATE: 11/25/2003
ENGINEERING CONTROLS: Ongoing
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: BFO-N-Bureau of Field Operations Northern (973) 631-6401

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

STATE

SEARCH ID: 530 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MIDWAY INK INCORPORATED
ADDRESS: 659 1ST ST
HOBOKEN NJ 07030

CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL800404212
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL800404212
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0905
STATUS: ACTIVE
DATE: 6/4/98 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF FIELD OPERATIONS NORTHERN (973) 669-3960

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 691 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MILE SQUARE MACHINERY INC
ADDRESS: 659 1ST ST
HOBOKEN CITY NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0228224
ID2: 022822
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: SANFORD RIEFF PRE
OWNER ORGANIZATION: SANDORD J RIEFF
OWNER ADDRESS: PO BOX M372
Hoboken NJ 07030

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: 1
TANK SIZE: 3000
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1963
TANK STATUS: Removed
TANK STATUS DATE: 1/23/1991
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 955 **DIST/DIR:** 0.09 NE **ELEVATION:** 11 **MAP ID:** 18

NAME: MIDWAY INK CORPORATION
ADDRESS: 659 1ST ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 98-05-19-0038-55
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 5/28/1998
CONTACT: Square Machinery Inc
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 793 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: PONPE OFFICE BLDG
ADDRESS: 111 PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 92-3-23-1101-47
ID2:
STATUS: L.U.S.T.
PHONE:

INCIDENT DATE: 3/23/1992 **RECEIVED DATE:** 3/23/1992
INCIDENT TIME: 1045 **OPERATOR:** JIMS

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: DIESEL FUEL
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: L.U.S.T.
STATUS AT SCENE:
2-4,000 GAL TANKS IN PROCESS OF REMOVAL UNDER BUST COVERAGE
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: PONPE OFFICE BLDG **STATUS:** KNOWN
CONTACT: JOE FOGLIA **TITLE:** LAWYER
ADDRESS: 111 PATERSON AVE
HOBOKEN, NJ
PHONE: 201-656-5142 **COUNTY:** HUDSON

CALLER NAME: STAN SMOLINSKI **TITLE:** ACCU-TECH
ADDRESS:
KEY PORT, NJ
PHONE: 908-739-6444

NJSP NAME: OEM **TITLE:**
PHONE: 609-882-2000
DATE: 3/23/1992 **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPER FRITZ
PHONE: 201-420-2004
DATE: 3/23/1992 **TIME:** 1106

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: HQ1 **PHONE:** FAXED,MAILED
DATE: 3/23/1992 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 793 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: PONPE OFFICE BLDG
ADDRESS: 111 PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 92-3-23-1101-47
ID2:
STATUS: L.U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 665 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: POLE MOUNTED TRANSFORMER
ADDRESS: 111 PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 97-8-12-1841-34
ID2:
STATUS: SPILL
PHONE:

INCIDENT DATE: 8/12/1997 **RECEIVED DATE:** 8/12/1997
INCIDENT TIME: 1841 **OPERATOR:** KIM

LOCATION TYPE: RESIDENTIAL

NATURE OF INCIDENT: MUNICIPAL **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: OIL TRANSFORMER NON-PCB
CAS No.
AMOUNT RELEASED: 30-35 GALS **VERIFICATION:** ESTIMATE
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: SPILL
STATUS AT SCENE:
TRANSFORMER BLEW CAUSING SPILL. CLEANUP BEING COMPLETED BY PSEandG.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: Y **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** Y
ASST. REQUESTED: N

SPILLER NAME: PSEandG **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: ORP 22 **TITLE:** HOBOKEN PD
ADDRESS:
,
PHONE: 201-420-2007

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 8/12/1997 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 665 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: POLE MOUNTED TRANSFORMER
ADDRESS: 111 PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 97-8-12-1841-34
ID2:
STATUS: SPILL
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 666 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: PONPE OFFICE BLDG
ADDRESS: 111 PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-3-23-1101-47
ID2:
STATUS: L.U.S.T.
PHONE:

INCIDENT DATE: 3/23/1992 **RECEIVED DATE:** 3/23/1992
INCIDENT TIME: 1045 **OPERATOR:** JIMS

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: DIESEL FUEL
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: L.U.S.T.
STATUS AT SCENE:
2-4,000 GAL TANKS IN PROCESS OF REMOVAL UNDER BUST COVERAGE
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: PONPE OFFICE BLDG **STATUS:** KNOWN
CONTACT: JOE FOGLIA **TITLE:** LAWYER
ADDRESS: 111 PATERSON AVE
HOBOKEN, NJ
PHONE: 201-656-5142 **COUNTY:** HUDSON

CALLER NAME: STAN SMOLINSKI **TITLE:** ACCU-TECH
ADDRESS:
KEY PORT, NJ
PHONE: 908-739-6444

NJSP NAME: OEM **TITLE:**
PHONE: 609-882-2000
DATE: 3/23/1992 **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPER FRITZ
PHONE: 201-420-2004
DATE: 3/23/1992 **TIME:** 1106

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: HQ1 **PHONE:** FAXED,MAILED
DATE: 3/23/1992 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 666 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: PONPE OFFICE BLDG
ADDRESS: 111 PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 92-3-23-1101-47
ID2:
STATUS: L.U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 450 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: FORMER CLIPPER TRUCKING
ADDRESS: 111 PATERSON AVE
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 291810
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

STATE

SEARCH ID: 568 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: PONTE OFFICE BUILDING
ADDRESS: 111 PATERSON AVE
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 021980
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 695 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: PONTE OFFICE BUILDING
ADDRESS: 111 PATERSON AVE
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0219800
ID2: 021980
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: ROBERT BARRIERO
OWNER ORGANIZATION: PONTE EQUITIES INC
OWNER ADDRESS: 511 CANAL ST
NEW YORK CITY NY 10013

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: 00A1
TANK SIZE: 4000
TANK CONTENTS: Light Diesel Fuel (No. 1-D)
INSTALL DATE: 1/1/1966
TANK STATUS: Removed
TANK STATUS DATE: 3/1/1992
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: 00A2
TANK SIZE: 4000
TANK CONTENTS: Light Diesel Fuel (No. 1-D)
INSTALL DATE: 1/1/1966
TANK STATUS: Other
TANK STATUS DATE: 1/1/1966
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: Yes
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-3
TANK NUMBER: 00C1
TANK SIZE: 4000
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1966
TANK STATUS: Removed

- Continued on next page -

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 695 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: PONTE OFFICE BUILDING
ADDRESS: 111 PATERSON AVE
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0219800
ID2: 021980
STATUS: INACTIVE
PHONE:

TANK STATUS DATE: 6/13/1991
TANK ID: TANK-3
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-4
TANK NUMBER: 00C2
TANK SIZE: 4000
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1966
TANK STATUS: Removed
TANK STATUS DATE: 6/13/1991
TANK ID: TANK-4
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-5
TANK NUMBER: 00C3
TANK SIZE: 4000
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1966
TANK STATUS: Removed
TANK STATUS DATE: 6/13/1991
TANK ID: TANK-5
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-6
TANK NUMBER: 00C4
TANK SIZE: 4000
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1966

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

UST

SEARCH ID: 695 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: PONTE OFFICE BUILDING
ADDRESS: 111 PATERSON AVE
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0219800
ID2: 021980
STATUS: INACTIVE
PHONE:

TANK STATUS:	Removed
TANK STATUS DATE:	6/13/1991
TANK ID:	TANK-6
COMPLIANCE MONITORING:	No
OVERFILL PROTETCION:	No
SPILL CONTAINMENT:	No
TANK WELLHEAD:	
TANK MATERIAL:	Bare steel
PIPE MATERIAL:	Bare steel
TANK MONITORING:	None
PIPE MONITORING:	None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 948 **DIST/DIR:** 0.09 NW **ELEVATION:** 11 **MAP ID:** 19

NAME: FORMER CLIPPER TRUCKING
ADDRESS: 111 PATERSON AVE
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/15/10
ID1: 06-05-12-1954-06
ID2: 291810
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 7/14/2006
CONTACT: LEHMKUHL
CONTACT ORGANIZATION:
CONTACT ADDRESS: 111 PATERSON AVE
Hoboken,NJ 07303

In April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 714 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 23

NAME: AREA OF
ADDRESS: 701 1ST ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 05-08-31-1045-21
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 8/31/2005
RECEIVED DATE: 8/31/2005
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: COMMERCIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: GASOLINE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: DEP
REPORTER RECEIVED DATE: 8/31/2005

SOURCE INFORMATION

IRVING SRVC CTR INC
701 1 ST ST
HOBOKEN CITY NJ
CONTACT: MGR EVELYN HERNANDEZ

FOUND CONTAMINATION IN TANK FIELD

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 794 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 26

NAME: PONTE EQUITIES INC
ADDRESS: 119 PATERSON AVE
HOBOKEN NJ 07030
HUD
CONTACT:
SOURCE: NJDEP

REV: 7/11/02
ID1: LU-91-06-11-0025
ID2:
STATUS:
PHONE:

SITE INFORMATION

STATUS: NO FURTHER ACTION - AREA OF CONCERN
NFA DATE: 3/19/1993 0:00:00
UST NUMBER: 0219800
TMS NUMBER: C91-3619
REMEDIAL LEVEL: CONFIRMED SOIL AND GROUND WATER CONTAMINATION
LEAD AGENCY: BUREAU OF UNDERGROUND STORAGE TANKS
CASE MANAGER: DAVID NICKERSON
CM PHONE: (609) 633-1445
CEA:
DATE CEA LIFTED:
DEAD NOTICE:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 780 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 22

NAME: MOJICA SERVICE CENTER
ADDRESS: 1ST ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 96-2-20-0945-43
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

INCIDENT DATE:
INCIDENT TIME: UNK
RECEIVED DATE: 2/20/1996
OPERATOR: ROB

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: OTHER
INCIDENT LOCATION: FACILITY
SUBSTANCE IDENTITY: KNOWN
SUBSTANCE STATE: LIQUID
SUBSTANCES:
SUBSTANCE NAME: GASOLINE
CAS No.
AMOUNT RELEASED: UNKNOWN
VERIFICATION:
SUBSTANCE CONTAINED: Y
TYPE OF SPILL: TERMINATED

INCIDENT DESCRIPTION: U.S.T.,SOIL CONTAMINATION
STATUS AT SCENE:
2/3000 GAL UST REMOVED 05/91. SOIL CONTAMINATION FOUND.
CONTAMINATION: LAND
RECEIVING WATER: NONE

A310 LETTER: Y
TCPA CHEMICAL: N
HAZMAT: Y
INJURIES: N
PUBLIC EXPOSURE: N
FACILITY EVACUATION: N
POLICE AT SCENE: N
PUBLIC EVACUATION: N
FIREMEN AT SCENE: N
ASST. REQUESTED: N

SPILLER NAME: MOJICA SERVICE CENTE
STATUS: KNOWN
CONTACT: MANUEL MOJICA
TITLE: OWNER
ADDRESS: 1 ST ST
HOBOKEN, NJ
PHONE:
COUNTY: HUDSON

CALLER NAME: RAFAEL RIVERA
TITLE: BFO/CAS
ADDRESS:
,
PHONE: 609-292-2561

NJSP NAME:
TITLE:
PHONE:
DATE:
TIME:

MUNICIPAL: HOBOKEN CITY
TITLE: OPR. 12
PHONE: 201-420-2004
DATE: 2/20/1996
TIME: 0950

OTHER NAME:
TITLE:
PHONE:
DATE:
TIME:

NAME:
REFERRAL: DRPSR
REGION: BFO-CAS
PHONE: FAXED,MAILED
DATE: 2/20/1996
TIME:
FAX/MAIL: B

NAME:
REFERRAL:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 780 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 22

NAME: MOJICA SERVICE CENTER
ADDRESS: 1ST ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 96-2-20-0945-43
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 781 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 22

NAME: MOJICA SERVICE CENTER
ADDRESS: 703 1ST ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/11/02
ID1: LU-96-02-20-0945-43
ID2:
STATUS:
PHONE:

SITE INFORMATION

STATUS: NO FURTHER ACTION - AREA OF CONCERN
NFA DATE: 6/25/1998 0:00:00
UST NUMBER: 0205436
TMS NUMBER: C91-0896
REMEDIAL LEVEL: ONE AREA OF CONCERN WITH ONE MEDIA OF CONCERN
LEAD AGENCY: BUREAU OF UNDERGROUND STORAGE TANKS
CASE MANAGER: SERGIO HONL
CM PHONE: (609) 984-7861
CEA:
DATE CEA LIFTED:
DEAD NOTICE:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 12 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 20

NAME: REGIONAL IMPORT and EXPORT CORP
ADDRESS: 115 PATERSON AVE
HOBOKEN NJ 07030
HUDSON
CONTACT: TIMOTHY NASTRO
SOURCE: EPA

REV: 6/6/06
ID1: NJD048353692
ID2:
STATUS: TRANSPORTER
PHONE: 2018654100

SITE INFORMATION

CONTACT INFORMATION: TIMOTHY NASTRO
115 PATERSON AVE
HOBOKEN NJ 07030

PHONE: 2018654100

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA PERMIT:	*N - NO*
GPRA POST CLOSURE:	*N - NO*
GPRA CA:	*N - NO*
GPRA COMPLIANCE MONITORING and ENFORCEMENT:	*N - NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	N - NO
SUBJCA TSD 3004:	N - NO
SUBJCA NON TSD:	N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):	N - NO
BEGINNING OF THE YEAR SNC:	N - NO
PERMIT WORKLOAD:	-----
CLOSURE WORKLOAD:	-----
POST CLOSURE WORKLOAD:	-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	-----
CORRECTIVE ACTION WORKLOAD:	N - NO
GENERATOR STATUS:	N

NAIC INFORMATION

48411 - GENERAL FREIGHT TRUCKING, LOCAL

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 672 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 22

NAME: TAXIE STAND
ADDRESS: 703 1ST ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 06-08-30-1431-11
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 8/30/2006
RECEIVED DATE: 8/30/2006
INCIDENT TYPE: SLOPPY HOUSEKEEPING
LOCATION TYPE: COMMERCIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: GASOLINE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: NO

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: CITIZEN COMPLAINT
REPORTER ORG:
REPORTER RECEIVED DATE: 8/30/2006

SOURCE INFORMATION

SUSPECTED HOBOKEN TAXIE COMPANY
703 FIRST ST
HOBOKEN CITY NJ
CONTACT:

CALLER COMPLAINING ABOUT WHEN IT RAINS MATERIAL LEAKS FROM PUMP AREA TO STREET

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 660 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 22

NAME: MOJICA SERVICE CENTER
ADDRESS: 1ST ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 96-2-20-0945-43
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

INCIDENT DATE:
INCIDENT TIME: UNK
RECEIVED DATE: 2/20/1996
OPERATOR: ROB

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: OTHER
INCIDENT LOCATION: FACILITY
SUBSTANCE IDENTITY: KNOWN
SUBSTANCE STATE: LIQUID
SUBSTANCES:
SUBSTANCE NAME: GASOLINE
CAS No.
AMOUNT RELEASED: UNKNOWN
VERIFICATION:
SUBSTANCE CONTAINED: Y
TYPE OF SPILL: TERMINATED

INCIDENT DESCRIPTION: U.S.T.,SOIL CONTAMINATION
STATUS AT SCENE:
2/3000 GAL UST REMOVED 05/91. SOIL CONTAMINATION FOUND.
CONTAMINATION: LAND
RECEIVING WATER: NONE

A310 LETTER: Y
TCPA CHEMICAL: N
HAZMAT: Y
INJURIES: N
PUBLIC EXPOSURE: N
FACILITY EVACUATION: N
POLICE AT SCENE: N
PUBLIC EVACUATION: N
FIREMEN AT SCENE: N
ASST. REQUESTED: N

SPILLER NAME: MOJICA SERVICE CENTE
STATUS: KNOWN
CONTACT: MANUEL MOJICA
TITLE: OWNER
ADDRESS: 1 ST ST
HOBOKEN, NJ
PHONE:
COUNTY: HUDSON

CALLER NAME: RAFAEL RIVERA
TITLE: BFO/CAS
ADDRESS:
,
PHONE: 609-292-2561

NJSP NAME:
TITLE:
PHONE:
DATE:
TIME:

MUNICIPAL: HOBOKEN CITY
TITLE: OPR. 12
PHONE: 201-420-2004
DATE: 2/20/1996
TIME: 0950

OTHER NAME:
TITLE:
PHONE:
DATE:
TIME:

NAME:
REFERRAL: DRPSR
REGION: BFO-CAS
PHONE: FAXED,MAILED
DATE: 2/20/1996
TIME:
FAX/MAIL: B

NAME:
REFERRAL:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 660 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 22

NAME: MOJICA SERVICE CENTER
ADDRESS: 1ST ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 96-2-20-0945-43
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 641 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 23

NAME: AREA OF
ADDRESS: 701 1ST ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 05-08-31-1045-21
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 8/31/2005
RECEIVED DATE: 8/31/2005
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: COMMERCIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: GASOLINE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: DEP
REPORTER RECEIVED DATE: 8/31/2005

SOURCE INFORMATION

IRVING SRVC CTR INC
701 1 ST ST
HOBOKEN CITY NJ
CONTACT: MGR EVELYN HERNANDEZ

FOUND CONTAMINATION IN TANK FIELD

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 534 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 21

NAME: MOJICA SERVICE CENTER
ADDRESS: 703 1ST ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 020543
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

STATE

SEARCH ID: 535 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 22

NAME: MOJICA SERVICE CENTER
ADDRESS: 703 1ST ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 09-01-97
ID1: NJL800204802
ID2:
STATUS:
PHONE:

CASE ID: 0205436 **STATUS:** ACTIVE **STATUS DATE:** 03/12/1997
CONTACT: BUST **CEA/DER:**

FOR MORE INFORMATION REGARDING THIS SITE PLEASE CONTACT THE NJDEP SITE INFORMATION PROGRAM AT 1-800-253-5647

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 692 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 22

NAME: MOJICA SERVICE CENTER
ADDRESS: 703 1ST ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0205436
ID2: 020543
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: MANUEL MOJICA
OWNER ORGANIZATION: MANUEL MOJICA
OWNER ADDRESS: 703 1ST ST
Hoboken NJ 07030

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: 0001
TANK SIZE: 3000
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1971
TANK STATUS: Removed
TANK STATUS DATE: 5/21/1991
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: 0002
TANK SIZE: 3000
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1971
TANK STATUS: Removed
TANK STATUS DATE: 5/21/1991
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 690 **DIST/DIR:** 0.10 NW **ELEVATION:** 10 **MAP ID:** 23

NAME: IRVING S SERVICE CENTER INC
ADDRESS: 701 1ST ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0233840
ID2: 023384
STATUS: ACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: EVELYN HERNANDEZ
OWNER ORGANIZATION: IRVINGS SERVICE CENTER INC
OWNER ADDRESS: 701 703 FIRST ST
Hoboken NJ 07030

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: E001
TANK SIZE: 3000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1991
TANK STATUS: In-use
TANK STATUS DATE: 1/1/1991
TANK ID: TANK-1
COMPLIANCE MONITORING: Yes
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD: No
TANK MATERIAL: Fiberglass-coated steel
PIPE MATERIAL: Other: Total Containment
TANK MONITORING: Tightness Test
PIPE MONITORING: Other: Safe (European) Suction

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: E002
TANK SIZE: 3000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1991
TANK STATUS: In-use
TANK STATUS DATE: 1/1/1991
TANK ID: TANK-2
COMPLIANCE MONITORING: Yes
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD: No
TANK MATERIAL: Fiberglass-coated steel
PIPE MATERIAL: Other: Total Containment
TANK MONITORING: Interstitial
PIPE MONITORING: Other: Safe (European) Suction

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 653 **DIST/DIR:** 0.10 SE **ELEVATION:** 12 **MAP ID:** 25

NAME: IN FRONT OF JUMBO PRINTS
ADDRESS: 614 NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 95-1-17-1107-51
ID2:
STATUS: ABANDONED CONTAINERS
PHONE:

INCIDENT DATE: 1/17/1995 **RECEIVED DATE:** 1/17/1995
INCIDENT TIME: 0900 **OPERATOR:** JULIE1

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: OTHER **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:**
SUBSTANCES:
SUBSTANCE NAME: NONE
CAS No.
AMOUNT RELEASED: NONE **VERIFICATION:**
SUBSTANCE CONTAINED: **TYPE OF SPILL:**

INCIDENT DESCRIPTION: ABANDONED CONTAINERS
STATUS AT SCENE:
2/55 GAL DRUMS FOUND IN FRONT OF COMPANY.DRUMS MARKED UNIT PORTIONS 146 ALBANY AVE LINHURST LONG ISLAND THE SECOND MARKED WESTERN SYRUP CORP.
CONTAMINATION: NONE **RECEIVING WATER:** NONE

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** N
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: Y

SPILLER NAME: **STATUS:** UNKNOWN
CONTACT: **TITLE:**
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: WAN HARRAH **TITLE:** JUMBO PRINTS
ADDRESS:
, NJ
PHONE: 201-795-2007

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: BRUCE DOYLE **REFERRAL:** DRPSR
REGION: ER1 **PHONE:** OFFICE,FAXED
DATE: 1/17/1995 **TIME:** 1107
FAX/MAIL: B

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 653 **DIST/DIR:** 0.10 SE **ELEVATION:** 12 **MAP ID:** 25

NAME: IN FRONT OF JUMBO PRINTS
ADDRESS: 614 NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 95-1-17-1107-51
ID2:
STATUS: ABANDONED CONTAINERS
PHONE:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 651 **DIST/DIR:** 0.10 SW **ELEVATION:** 12 **MAP ID:** 24

NAME: IN FRONT OF
ADDRESS: 660 NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-4-23-1708-03
ID2:
STATUS: SPILL
PHONE:

INCIDENT DATE: 4/23/1998 **RECEIVED DATE:** 4/23/1998
INCIDENT TIME: 1600 **OPERATOR:** JOYCE

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: MUNICIPAL **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES: PAINT, OTHER
SUBSTANCE NAME: OIL OTHER
CAS No.
AMOUNT RELEASED: < 30 GALS. **VERIFICATION:** ESTIMATE
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: SPILL
STATUS AT SCENE:
LATEX PAINT W/OIL+OIL MIXTURE FELL OFF BACK OF TRUCK. HUDSON REGIONAL ENROUTE. AREA BOOMED OFF NO SD INVOLVED.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: Y **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** Y
ASST. REQUESTED: N

SPILLER NAME: **STATUS:** UNKNOWN
CONTACT: **TITLE:**
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: OPR. 22 **TITLE:** HOBOKEN FD
ADDRESS:
,
PHONE: 201-420-2007

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 4/23/1998 **TIME:**
FAX/MAIL: B

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 651 **DIST/DIR:** 0.10 SW **ELEVATION:** 12 **MAP ID:** 24

NAME: IN FRONT OF
ADDRESS: 660 NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-4-23-1708-03
ID2:
STATUS: SPILL
PHONE:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

ENGCONTROL

SEARCH ID: 891 **DIST/DIR:** 0.11 NE **ELEVATION:** **MAP ID:** 34

NAME: EHRLICH TRUCKING FACILITY
ADDRESS: 119 MARSHALL ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJ DEP

REV: 4/4/07
ID1: DNA-532
ID2: NJL800243818
STATUS: DEED NOTICE EXTENT
PHONE:

SITE INFORMATION

DEED NOTICE EXTENT DATA

KCSL NUMBER: NJL800243818
CASE IDENTIFIER:
NJDEP LEAD UNIT: BUREAU OF UNDERGROUND STORAGE TANKS
DEED NOTICE APPROVED: MAR. 13, 2001
DN PART OF FINAL REMEDY: YES
DEPTH OF CONTAM: ?
SCALE DIGITIZED: 1,000
DEED NOTICE AREA(acres): 2.26099
CAP TYPE:
DURATION: INDETERM.

CONTAMINANTS
VOLATILE ORGANIC:
SEMI VOLATILE ORGANIC: ACENAPTHYLENE, PHENANTHRENE
METALS: LEAD
PESTICIDES:
CARCINOGENIC PAH:
PCB:
RADIONUCLEIDE:
ASBESTOS:
TOT PETROLEUM HYDRO:
TENT ID COMPOUNDS:
HISTORIC FILL:

BENZO CONTAMINATION
[A] ANTHRACENE: YES
[A] PYRENE: YES
[B] FLOURENE: YES
[G,H,I] PERYLENE:
[K] FLOURANTHENE: YES

IDENO [1,2,3-cd] PYRENE: YES
DIBENZ [A,H] ANTHACENE: YES
CHRYSENE: YES
OTHER:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 656 **DIST/DIR:** 0.11 NE **ELEVATION:** 10 **MAP ID:** 30

NAME: INTO SEWER
ADDRESS: 1ST ST and HARRISON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 95-7-19-1605-08
ID2:
STATUS: ILLEGAL DUMPING
PHONE:

INCIDENT DATE: 7/19/1995 **RECEIVED DATE:** 7/19/1995
INCIDENT TIME: 1532 **OPERATOR:** JIMS

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: MUNICIPAL **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: SUSPECTED **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: GASOLINE
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: ILLEGAL DUMPING
STATUS AT SCENE:
ILLEGAL DUMPING OF GASOLINE INTO SEWER SYSTEM DEPUTY CHIEF ON SCENE IS REQUESTING ASSSISTANCE FOR NOTIFICATION OF HUDSON REGIONAL HEALTH
CONTAMINATION: WATER **RECEIVING WATER:** UNKNOWN

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** Y
ASST. REQUESTED: Y

SPILLER NAME: **STATUS:** UNKNOWN
CONTACT: **TITLE:**
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: DISP TORRES **TITLE:** HOBOKEN FD
ADDRESS:
HOBOKEN, NJ
PHONE: 201-420-2007

NJSP NAME: NJSP/OEM **TITLE:** FAXED
PHONE:
DATE: 7/19/1995 **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: CHRIS GIBBONS **REFERRAL:** DRPSR
REGION: ER1 **PHONE:** OFFICE,FAXED
DATE: 7/19/1995 **TIME:** 1610
FAX/MAIL: B

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 656 **DIST/DIR:** 0.11 NE **ELEVATION:** 10 **MAP ID:** 30

NAME: INTO SEWER
ADDRESS: 1ST ST and HARRISON ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 95-7-19-1605-08
ID2:
STATUS: ILLEGAL DUMPING
PHONE:

NAME:
REGION: HQ1
DATE: 7/19/1995
FAX/MAIL: T

REFERRAL: DFG
PHONE: FAXED
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:
CHART F

DATE PRINTED: 7/19/1995
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 663 **DIST/DIR:** 0.11 NW **ELEVATION:** 10 **MAP ID:** 32

NAME: ON TIME BUS CO
ADDRESS: 50 MARSHALL ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 05-04-18-1022-50
ID2:
STATUS: CONTINUOUS
PHONE:

SITE INFORMATION

INCIDENT DATE: 4/18/2005
RECEIVED DATE: 4/18/2005
INCIDENT TYPE: IMPROPER DISPOSAL/STORAGE
LOCATION TYPE: OTHER
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: SEWAGE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: NO
TCPA: N
CONTAINED: NO

ROAD CLOSURE: NO
DEP REQUESTED: YES
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: CITIZEN COMPLAINT
REPORTER ORG:
REPORTER RECEIVED DATE: 4/18/2005

SOURCE INFORMATION

ON TIME BUS CO
50-58 MARSHALL ST
HOBOKEN CITY NJ
CONTACT:

CALLER SUSPECTS THE IMPROPER DISPOSAL OF SEWAGE INTO A STORMDRAIN. REQUESTING ASSISTANCE.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 662 **DIST/DIR:** 0.11 NW **ELEVATION:** 10 **MAP ID:** 32

NAME: ON LOCATION MANAGEMENT
ADDRESS: 50 MARSHALL ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 06-08-31-0914-38
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 8/5/2006
RECEIVED DATE: 8/31/2006
INCIDENT TYPE: IMPROPER DISPOSAL/STORAGE
LOCATION TYPE: COMMERCIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: SEWAGE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY: 300
UNITS: GALLONS
TYPE: ESTIMATED
HAZMAT: NO
TCPA: N
CONTAINED: NO

ROAD CLOSURE: NO
DEP REQUESTED: YES
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL: YES

REPORTER INFORMATION

REDACTED

REPORTER TYPE: CONFIDENTIAL
REPORTER ORG:
REPORTER RECEIVED DATE: 8/31/2006

SOURCE INFORMATION

UNKNOWN

NJ
CONTACT:

SEWAGE FROM BUSES AND TRAILERS ARE BEING DISPOSED OF INTO A STORM DRAIN. NO CLEAN UP IS BEING DONE.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 661 **DIST/DIR:** 0.11 NW **ELEVATION:** 10 **MAP ID:** 31

NAME: NEAR RESIDENCE
ADDRESS: 700 1ST ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 06-01-28-2135-20
ID2:
STATUS: CONTINUOUS
PHONE:

SITE INFORMATION

INCIDENT DATE: 1/28/2006
RECEIVED DATE: 1/28/2006
INCIDENT TYPE: ODORS
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: ODORS
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: GAS
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: NO
TCPA: N
CONTAINED: NO

ROAD CLOSURE: NO
DEP REQUESTED: YES
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: YES
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: CITIZEN COMPLAINT
REPORTER ORG: CIT
REPORTER RECEIVED DATE: 1/28/2006

SOURCE INFORMATION

UNKNOWN

NJ
CONTACT:

FOUL CHEMICAL-TYPE ODORS IN AREA. USUALLY OCCURS ON SATURDAYS AFTER 21:00 HOURS EACH WEEK.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 743 **DIST/DIR:** 0.11 SE **ELEVATION:** 13 **MAP ID:** 27

NAME: EDEN BASKETS
ADDRESS: 601 NEWARK ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 96-7-26-1227-05
ID2:
STATUS: U.S.T.
PHONE:

INCIDENT DATE: 7/26/1996 **RECEIVED DATE:** 7/26/1996
INCIDENT TIME: **OPERATOR:** JIMH

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: OTHER **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: OIL FUEL 2
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: U.S.T.
STATUS AT SCENE:
REMOVAL OF 1-1,000 GALLON TANK ALONG WITH SOIL
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: EDEN BASKETS **STATUS:** KNOWN
CONTACT: HARRIETT KAHN **TITLE:** OWNER
ADDRESS: 601 NEWARK ST
HOBOKEN, NJ
PHONE: **COUNTY:** HUDSON

CALLER NAME: TODD HOFFMAN **TITLE:** JM SORGE
ADDRESS:
,
PHONE: 908-218-0066

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPER 11
PHONE: 201-420-2004
DATE: 7/26/1996 **TIME:** 1230

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 7/26/1996 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 743 **DIST/DIR:** 0.11 SE **ELEVATION:** 13 **MAP ID:** 27

NAME: EDEN BASKETS
ADDRESS: 601 NEWARK ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 96-7-26-1227-05
ID2:
STATUS: U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 6 **DIST/DIR:** 0.11 SE **ELEVATION:** 13 **MAP ID:** 27

NAME: 601-619 NEWARK STREET LLC
ADDRESS: 601 NEWARK ST
HOBOKEN NJ 07310
HUDSON
CONTACT: PINO MORIN
SOURCE: EPA

REV: 6/6/06
ID1: NJR000037200
ID2:
STATUS: SGN
PHONE: 2012226615

SITE INFORMATION

CONTACT INFORMATION: PINO MORIN
86 HUDSON ST
HOBOKEN NJ 07030

PHONE: 2012226615

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA PERMIT: *N - NO*
GPRA POST CLOSURE: *N - NO*
GPRA CA: *N - NO*
GPRA COMPLIANCE MONITORING and ENFORCEMENT: *N - NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO

SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC: N - NO
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Ignitable waste

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 644 **DIST/DIR:** 0.11 SE **ELEVATION:** 12 **MAP ID:** 28

NAME: BEHIND WINDSOR WAX CO
ADDRESS: 603 NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 95-1-25-0202-00
ID2:
STATUS: ABANDONED CONTAINERS
PHONE:

INCIDENT DATE: 1/25/1995 **RECEIVED DATE:** 1/25/1995
INCIDENT TIME: 0142 **OPERATOR:** PAT

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: MUNICIPAL **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: SUSPECTED **SUBSTANCE STATE:** SOLID
SUBSTANCES:
SUBSTANCE NAME: RADIOACTIVE MATERIAL
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:**

INCIDENT DESCRIPTION: ABANDONED CONTAINERS
STATUS AT SCENE:
WHILE INVESTIGATING BURGLARY COMPLAINT OFFICER DISCOVERED TEN 55 GAL DRUMS MARKED RADIOACTIVE WASTE BEHIND FACILITY. NO FURTHER INFO. REQ ASSISTANCE.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: Y **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: Y

SPILLER NAME: **STATUS:** UNKNOWN
CONTACT: **TITLE:**
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: OFFICER FLOOD 62 **TITLE:** HOBOKEN P.D.
ADDRESS:
HOBOKEN, NJ
PHONE: 201-420-2100

NJSP NAME: NJSP-OEM **TITLE:** TPR. WIDMERE
PHONE: 609-882-2000
DATE: 1/25/1995 **TIME:** 0219

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: BOB STERN **REFERRAL:** ESHA
REGION: RADIATION **PHONE:** HOME,FAXED
DATE: 1/25/1995 **TIME:** 0210
FAX/MAIL: B

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 644 **DIST/DIR:** 0.11 SE **ELEVATION:** 12 **MAP ID:** 28

NAME: BEHIND WINDSOR WAX CO
ADDRESS: 603 NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 95-1-25-0202-00
ID2:
STATUS: ABANDONED CONTAINERS
PHONE:

NAME: WALT JANICEK
REGION: ER1
DATE: 1/25/1995
FAX/MAIL: B

REFERRAL: DRPSR
PHONE: HOME,FAXED
TIME: 0219

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 675 **DIST/DIR:** 0.11 SE **ELEVATION:** 12 **MAP ID:** 33

NAME: WINDSOR WAX INC
ADDRESS: 611 NEWARK ST
HOBOKEN NJ 07310
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-11-11-1213-32
ID2:
STATUS: SLOPPY HOUSEKEEPING
PHONE:

INCIDENT DATE: 11/11/1996 **RECEIVED DATE:** 11/11/1996
INCIDENT TIME: ONGOI **OPERATOR:** JIMH

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: CITIZEN **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: UNKNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES: OIL 2
SUBSTANCE NAME: UNKNOWN LIQUID
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: U **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: SLOPPY HOUSEKEEPING
STATUS AT SCENE:
CALLER STATED THAT ALL OF PROPERTY IS CONTAMINATED. ALSO UST LEAKING OF SITE.THIS IS ONGOING FOR AT LEAST 30 YEARS.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** U **HAZMAT:** U
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: Y

SPILLER NAME: CERA CORP **STATUS:** KNOWN
CONTACT: HARRIET KRIVIT **TITLE:** OWNER
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: DAVE KHN **TITLE:** CITIZEN
ADDRESS:
, N
PHONE: 201-702-1558

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPER 11
PHONE: 201-420-2004
DATE: 11/11/1996 **TIME:** 1219

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 11/11/1996 **TIME:**
FAX/MAIL: B

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 675 **DIST/DIR:** 0.11 SE **ELEVATION:** 12 **MAP ID:** 33

NAME: WINDSOR WAX INC
ADDRESS: 611 NEWARK ST
HOBOKEN NJ 07310
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-11-11-1213-32
ID2:
STATUS: SLOPPY HOUSEKEEPING
PHONE:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 648 **DIST/DIR:** 0.11 SE **ELEVATION:** 12 **MAP ID:** 29

NAME: COMMERCIAL BLDG
ADDRESS: 615 NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 94-5-31-1257-07
ID2:
STATUS: ODORS/VAPORS
PHONE:

INCIDENT DATE: 5/31/1994 **RECEIVED DATE:** 5/31/1994
INCIDENT TIME: 0830 **OPERATOR:** RICH

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: CITIZEN **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** GAS
SUBSTANCES:
SUBSTANCE NAME: ODORS
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** CONTINUOUS

INCIDENT DESCRIPTION: ODORS/VAPORS
STATUS AT SCENE:
STRONG CHEMICAL TYPE ODORS COMING FROM SITE.
CONTAMINATION: AIR **RECEIVING WATER:**

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** N
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: CHAMBORD PRINT CO **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS: 615 NEWARK ST
HOBOKEN, NJ
PHONE: **COUNTY:** HUDSON

CALLER NAME: ANONYMOUS **TITLE:** CIT
ADDRESS:
,
PHONE:

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** OEP-AIR
REGION: METRO **PHONE:**
DATE: 5/31/1994 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 648 **DIST/DIR:** 0.11 SE **ELEVATION:** 12 **MAP ID:** 29

NAME: COMMERCIAL BLDG
ADDRESS: 615 NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 94-5-31-1257-07
ID2:
STATUS: ODORS/VAPORS
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED: 5/31/1994
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 649 **DIST/DIR:** 0.11 SE **ELEVATION:** 13 **MAP ID:** 27

NAME: EDEN BASKETS
ADDRESS: 601 NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-7-26-1227-05
ID2:
STATUS: U.S.T.
PHONE:

INCIDENT DATE: 7/26/1996 **RECEIVED DATE:** 7/26/1996
INCIDENT TIME: **OPERATOR:** JIMH

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: OTHER **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: OIL FUEL 2
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: U.S.T.
STATUS AT SCENE:
REMOVAL OF 1-1,000 GALLON TANK ALONG WITH SOIL
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: EDEN BASKETS **STATUS:** KNOWN
CONTACT: HARRIETT KAHN **TITLE:** OWNER
ADDRESS: 601 NEWARK ST
HOBOKEN, NJ
PHONE: **COUNTY:** HUDSON

CALLER NAME: TODD HOFFMAN **TITLE:** JM SORGE
ADDRESS:
,
PHONE: 908-218-0066

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPER 11
PHONE: 201-420-2004
DATE: 7/26/1996 **TIME:** 1230

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 7/26/1996 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 649 **DIST/DIR:** 0.11 SE **ELEVATION:** 13 **MAP ID:** 27

NAME: EDEN BASKETS
ADDRESS: 601 NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-7-26-1227-05
ID2:
STATUS: U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 878 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: VACANT LOT AT
ADDRESS: 101 HARRISON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 07-02-22-1330-32
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 2/22/2007
RECEIVED DATE: 2/22/2007
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: COMMERCIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL WASTE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY: 0
UNITS: UNKNOWN

INCIDENT INFORMATION

SUBSTANCE: GASOLINE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY: 0
UNITS: UNKNOWN
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: ENVIRONMENTAL LIABILITY MGT
REPORTER RECEIVED DATE: 2/22/2007

SOURCE INFORMATION

GREEN TREE CONSTRUCTION

PERTH AMBOY CITY NJ
CONTACT:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 878 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: VACANT LOT AT
ADDRESS: 101 HARRISON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 07-02-22-1330-32
ID2:
STATUS: TERMINATED
PHONE:

3/ 1500 GAL and 2/ 550 GAL UST S REMOVED. CLEAN UP PENDING. TMS NOT AVAILABLE AT TIME OF REPORT. REFERENCE CASE 06-12-0815-29-11

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 11 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: P and M TIRE FACILITY FORMER
ADDRESS: 101 HARRISON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: EPA

REV: 7/11/11
ID1: NJR000065649
ID2:
STATUS: LGN
PHONE:

CONTACT INFORMATION:
LARRY WILT
7328264084

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA CA BASELINE UNIVERSE:	*NO*
GPRA CA 2008:	*NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	NO
SUBJCA TSD 3004:	NO
SUBJCA NON TSD:	NO
SUBJCA TSD DISCRETION:	NO
PERMIT WORKLOAD:	-----
CLOSURE WORKLOAD:	-----
POST CLOSURE WORKLOAD:	-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	-----
CORRECTIVE ACTION WORKLOAD:	NO
GENERATOR STATUS:	LQG
TRANSPORTER:	NO
UNIVERSAL WASTE:	NO
RECYCLER:	NO
USED OIL:	NO
IMPORTER:	NO
MIXED WASTE GENERATOR:	NO
ONSITE BURNER EXEMPT:	NO
FURNACE EXEMPTION:	NO
UNDERGROUND INJECTION:	NO
NAIC 1:	General Automotive Repair
NAIC 2:	
NAIC 3:	
NAIC 4:	

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 5 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 35

NAME: 109 HARRISON STREET LLC
ADDRESS: 109 HARRISON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: EPA

REV: 7/11/11
ID1: NJR000065383
ID2:
STATUS: LGN
PHONE:

CONTACT INFORMATION:

JEFFREY WHITE
2013860010

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA CA BASELINE UNIVERSE:	*NO*
GPRA CA 2008:	*NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	NO
SUBJCA TSD 3004:	NO
SUBJCA NON TSD:	NO
SUBJCA TSD DISCRETION:	NO
PERMIT WORKLOAD:	-----
CLOSURE WORKLOAD:	-----
POST CLOSURE WORKLOAD:	-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	-----
CORRECTIVE ACTION WORKLOAD:	NO
GENERATOR STATUS:	LQG
TRANSPORTER:	NO
UNIVERSAL WASTE:	NO
RECYCLER:	NO
USED OIL:	NO
IMPORTER:	NO
MIXED WASTE GENERATOR:	NO
ONSITE BURNER EXEMPT:	NO
FURNACE EXEMPTION:	NO
UNDERGROUND INJECTION:	NO
NAIC 1:	New Multifamily Housing Construction (except Operative Builders)
NAIC 2:	
NAIC 3:	
NAIC 4:	

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 674 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: VACANT LOT AT
ADDRESS: 101 HARRISON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 07-02-22-1330-32
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 2/22/2007
RECEIVED DATE: 2/22/2007
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: COMMERCIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: GASOLINE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY: 0
UNITS: UNKNOWN

INCIDENT INFORMATION

SUBSTANCE: OIL WASTE
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY: 0
UNITS: UNKNOWN
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: ENVIRONMENTAL LIABILITY MGT
REPORTER RECEIVED DATE: 2/22/2007

SOURCE INFORMATION

GREEN TREE CONSTRUCTION

PERTH AMBOY CITY NJ
CONTACT:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 674 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: VACANT LOT AT
ADDRESS: 101 HARRISON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 07-02-22-1330-32
ID2:
STATUS: TERMINATED
PHONE:

3/ 1500 GAL and 2/ 550 GAL UST S REMOVED. CLEAN UP PENDING. TMS NOT AVAILABLE AT TIME OF REPORT. REFERENCE CASE 06-12-0815-29-11

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 650 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: FORMER P AND M TIRE AND BRAKES
ADDRESS: 101 HARRISON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 06-12-08-1529-11
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 8/30/2006
RECEIVED DATE: 12/8/2006
INCIDENT TYPE: OTHER
LOCATION TYPE: COMMERCIAL
CATEGORY: FACILITY

INCIDENT INFORMATION

SUBSTANCE: PETROLEUM HYDROCARBONS
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY: 0
UNITS: UNKNOWN
TYPE: UNKNOWN
HAZMAT: YES
TCPA: U
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: FACILITY REP.
REPORTER ORG: ENVIRONMENTAL LIABILITY MANMT
REPORTER RECEIVED DATE: 12

SOURCE INFORMATION

TIRE FACTORY LLC
PO BOX 702
PERTH AMBOY CITY NJ
CONTACT: WILLIAM UTTER

SOIL SAMPLES INDICATED THE PRESENCE OF HISTORICAL FILL AT THIS LOCATION. CLEANUP IS PENDING.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

STATE

SEARCH ID: 561 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: PandM TIRE and BRAKES PROPERTY FORMER
ADDRESS: 101 HARRISON ST
HOBOKEN CITY NJ

CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 420421
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 694 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: PandM TIRE and BRAKES PROPERTY FORMER
ADDRESS: 101 HARRISON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 420421
ID2: 420421
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: LARRY WILT
OWNER ORGANIZATION: THE TIRE FACTORY LLC
OWNER ADDRESS: PO BOX 702
Perth Amboy NJ 08862

TANK INFORMATION
FACILITY TYPE:

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: 0001
TANK SIZE: 1500
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1944
TANK STATUS: Removed
TANK STATUS DATE: 2/22/2007
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: 0002
TANK SIZE: 1500
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1944
TANK STATUS: Removed
TANK STATUS DATE: 2/22/2007
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-3
TANK NUMBER: 0003
TANK SIZE: 550
TANK CONTENTS: Waste Oil
INSTALL DATE: 1/1/1944
TANK STATUS: Removed

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 694 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: PandM TIRE and BRAKES PROPERTY FORMER
ADDRESS: 101 HARRISON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 420421
ID2: 420421
STATUS: INACTIVE
PHONE:

TANK STATUS DATE: 2/22/2007
TANK ID: TANK-3
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-4
TANK NUMBER: 0004
TANK SIZE: 550
TANK CONTENTS: Waste Oil
INSTALL DATE: 1/1/1944
TANK STATUS: Removed
TANK STATUS DATE: 2/22/2007
TANK ID: TANK-4
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-5
TANK NUMBER: 0005
TANK SIZE: 1500
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1944
TANK STATUS: Removed
TANK STATUS DATE: 2/22/2007
TANK ID: TANK-5
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 961 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: PandM TIRE and BRAKES PROPERTY FORMER
ADDRESS: 101 HARRISON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/15/10
ID1: 07-02-22-1330-32
ID2: 420421
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 4/16/2009
CONTACT: WILT
CONTACT ORGANIZATION: TIRE FACTORY LLC
CONTACT ADDRESS: BOX 702
Perth Amboy,NJ 08862

In April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 4/16/2009

VCP

SEARCH ID: 960 **DIST/DIR:** 0.12 NE **ELEVATION:** 11 **MAP ID:** 36

NAME: PandM TIRE and BRAKES PROPERTY FORMER
ADDRESS: 101 HARRISON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/12/10
ID1: 06-12-08-1529-11
ID2: 420421
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 4/16/2009
CONTACT: WILT
CONTACT ORGANIZATION: TIRE FACTORY LLC
CONTACT ADDRESS: BOX 702
Perth Amboy,NJ 08862

In April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 722 **DIST/DIR:** 0.12 NW **ELEVATION:** 10 **MAP ID:** 37

NAME: BLOCK 25 LOT 8
ADDRESS: 101 MARSHALL ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 96-6-14-1206-22
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

INCIDENT DATE: 6/14/1996 **RECEIVED DATE:** 6/14/1996
INCIDENT TIME: 1159 **OPERATOR:** ROB

LOCATION TYPE: INDUSTRIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: OIL FUEL
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: U.S.T.,SOIL CONTAMINATION
STATUS AT SCENE:
1/1000 GAL UST REMOVED. SOIL CONTAMINATION FOUND AND WILL BE REMOVED BY CONTRACTOR.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: BERNARD AND MURRAY E **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS: 2162 SUNDERLAND AVE
WELLINGTON, FL
PHONE: 201-659-8852 **COUNTY:**

CALLER NAME: WILLIAM MOODY **TITLE:** AEK ASOC.
ADDRESS: EAST MAIN ST
BRIDGEWATER, NJ
PHONE: 908-356-6688

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPR. 22
PHONE: 201-420-2004
DATE: 6/14/1996 **TIME:** 1211

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:** FAXED,MAILED
DATE: 6/14/1996 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 722 **DIST/DIR:** 0.12 NW **ELEVATION:** 10 **MAP ID:** 37

NAME: BLOCK 25 LOT 8
ADDRESS: 101 MARSHALL ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 96-6-14-1206-22
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 645 **DIST/DIR:** 0.12 NW **ELEVATION:** 10 **MAP ID:** 37

NAME: BLOCK 25 LOT 8
ADDRESS: 101 MARSHALL ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-6-14-1206-22
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

INCIDENT DATE: 6/14/1996 **RECEIVED DATE:** 6/14/1996
INCIDENT TIME: 1159 **OPERATOR:** ROB

LOCATION TYPE: INDUSTRIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: OIL FUEL
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: U.S.T.,SOIL CONTAMINATION
STATUS AT SCENE:
1/1000 GAL UST REMOVED. SOIL CONTAMINATION FOUND AND WILL BE REMOVED BY CONTRACTOR.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: BERNARD AND MURRAY E **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS: 2162 SUNDERLAND AVE
WELLINGTON, FL
PHONE: 201-659-8852 **COUNTY:**
INCIDENT DATE: 6/14/1996 **RECEIVED DATE:** 6/14/1996
INCIDENT TIME: 1159 **OPERATOR:** ROB

LOCATION TYPE: INDUSTRIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: OIL FUEL
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: U.S.T.,SOIL CONTAMINATION
STATUS AT SCENE:
1/1000 GAL UST REMOVED. SOIL CONTAMINATION FOUND AND WILL BE REMOVED BY CONTRACTOR.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: BERNARD AND MURRAY E **STATUS:** KNOWN

- Continued on next page -

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 645 **DIST/DIR:** 0.12 NW **ELEVATION:** 10 **MAP ID:** 37

NAME: BLOCK 25 LOT 8
ADDRESS: 101 MARSHALL ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-6-14-1206-22
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

CONTACT: **TITLE:**
ADDRESS: 2162 SUNDERLAND AVE
WELLINGTON, FL
PHONE: 201-659-8852 **COUNTY:**

CALLER NAME: WILLIAM MOODY **TITLE:** AEK ASOC.
ADDRESS: EAST MAIN ST
BRIDGEWATER, NJ
PHONE: 908-356-6688

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY

CALLER NAME: WILLIAM MOODY **TITLE:** AEK ASOC.
ADDRESS: EAST MAIN ST
BRIDGEWATER, NJ
PHONE: 908-356-6688

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPR. 22
PHONE: 201-420-2004
DATE: 6/14/1996 **TIME:** 1211

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:** FAXED,MAILED
DATE: 6/14/1996 **TIME:**
FAX/MAIL: B

NAME: **TITLE:** OPR. 22
PHONE: 201-420-2004
DATE: 6/14/1996 **TIME:** 1211

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:** FAXED,MAILED
DATE: 6/14/1996 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**
REGION: **PHONE:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 645 **DIST/DIR:** 0.12 NW **ELEVATION:** 10 **MAP ID:** 37

NAME: BLOCK 25 LOT 8
ADDRESS: 101 MARSHALL ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-6-14-1206-22
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

DATE:
TIME:
FAX/MAIL:

NAME:
REFERRAL:
REGION:
PHONE:
DATE:
TIME:
FAX/MAIL:

COMMENTS:

DATE PRINTED:
DATE UPDATED:
DATE FAXED:
DATE A310:

REFERRAL:

REGION:
PHONE:
DATE:
TIME:
FAX/MAIL:

NAME:
REFERRAL:
REGION:
PHONE:
DATE:
TIME:
FAX/MAIL:

COMMENTS:

DATE PRINTED:
DATE UPDATED:
DATE FAXED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 642 **DIST/DIR:** 0.12 NW **ELEVATION:** 10 **MAP ID:** 38

NAME: AT INTERSECTION OF
ADDRESS: 1ST ST and PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 94-7-7-1414-40
ID2:
STATUS:
PHONE:

INCIDENT DATE:
INCIDENT TIME:
RECEIVED DATE:
OPERATOR:

LOCATION TYPE:

NATURE OF INCIDENT:
INCIDENT LOCATION:
SUBSTANCE IDENTITY:
SUBSTANCE STATE:
SUBSTANCES:
SUBSTANCE NAME:
CAS No.
AMOUNT RELEASED:
VERIFICATION:
SUBSTANCE CONTAINED:
TYPE OF SPILL:

INCIDENT DESCRIPTION:
STATUS AT SCENE:

CONTAMINATION:
RECEIVING WATER:

A310 LETTER:
TCPA CHEMICAL:
HAZMAT:
INJURIES:
PUBLIC EXPOSURE:
FACILITY EVACUATION:
POLICE AT SCENE:
PUBLIC EVACUATION:
FIREMEN AT SCENE:
ASST. REQUESTED:

SPILLER NAME:
STATUS:
CONTACT:
TITLE:
ADDRESS:
,
PHONE:
COUNTY:

CALLER NAME:
TITLE:
ADDRESS:
,
PHONE:

NJSP NAME:
TITLE:
PHONE:
DATE:
TIME:

MUNICIPAL:
TITLE:
PHONE:
DATE:
TIME:

OTHER NAME:
TITLE:
PHONE:
DATE:
TIME:

NAME:
REFERRAL:
REGION:
PHONE:
DATE:
TIME:
FAX/MAIL:

NAME:
REFERRAL:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 642 **DIST/DIR:** 0.12 NW **ELEVATION:** 10 **MAP ID:** 38

NAME: AT INTERSECTION OF
ADDRESS: 1ST ST and PATERSON AVE
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 94-7-7-1414-40
ID2:
STATUS:
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 451 **DIST/DIR:** 0.12 NW **ELEVATION:** 10 **MAP ID:** 37

NAME: FORMER EHRLICH TRUCKING
ADDRESS: 101 MARSHALL ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 031346
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

STATE

SEARCH ID: 434 **DIST/DIR:** 0.12 NW **ELEVATION:** 10 **MAP ID:** 37

NAME: EHRLICH TRUCKING (FORMER)
ADDRESS: 101 MARSHALL ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL800243818
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL800243818
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0905
STATUS: ACTIVE
DATE: 1/14/99 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF UNDERGROUND STORAGE TANKS (609) 292-8761

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 945 **DIST/DIR:** 0.12 NW **ELEVATION:** 10 **MAP ID:** 37

NAME: EHRLICH TRUCKING (FORMER)
ADDRESS: 101 MARSHALL ST 121-133 MARSHALL
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 96-06-14-1206-22
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 8/24/2001
CONTACT: I LLC
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

SPILLS

SEARCH ID: 643 **DIST/DIR:** 0.12 SE **ELEVATION:** 13 **MAP ID:** 39

NAME: AUTO MOTIVE COMPANY AT
ADDRESS: 571 NEWARK ST
HOBOKEN NJ 07310
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-10-25-0930-30
ID2:
STATUS: ILLEGAL DUMPING
PHONE:

INCIDENT DATE: 10/23/1996 **RECEIVED DATE:** 10/25/1996
INCIDENT TIME: **OPERATOR:** JULIE1

LOCATION TYPE: RESIDENTIAL

NATURE OF INCIDENT: CITIZEN **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES: ANTIFREEZE
SUBSTANCE NAME: OIL LIKE SUBSTANCE
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** INTERMITTENT

INCIDENT DESCRIPTION: ILLEGAL DUMPING
STATUS AT SCENE:
MATERIAL FOUND COMING OUT OF A PIPE ON BUILDING RUNNING ONTO THE GROUND
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** Y **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: Y

SPILLER NAME: AUTOMOTIVE COMP **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS: 571 NEWARK ST
HOBOKEN, NJ
PHONE: **COUNTY:** HUDSON

CALLER NAME: JOSEPH TULLO **TITLE:** CITIZEN
ADDRESS: 551 NEWARK ST
HOBOKEN, NJ
PHONE: NO PHONE

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** TORRES
PHONE: 201-420-2004
DATE: 10/25/1996 **TIME:** 0934

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 10/25/1996 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SPILLS

SEARCH ID: 643 **DIST/DIR:** 0.12 SE **ELEVATION:** 13 **MAP ID:** 39

NAME: AUTO MOTIVE COMPANY AT
ADDRESS: 571 NEWARK ST
HOBOKEN NJ 07310
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-02-97
ID1: 96-10-25-0930-30
ID2:
STATUS: ILLEGAL DUMPING
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

FEDBF

SEARCH ID: 888 **DIST/DIR:** 0.13 NE **ELEVATION:** 14 **MAP ID:** 43

NAME: JACKSON STREET GARAGE
ADDRESS: 116 JACKSON ST
HOBOCKEN NJ
CONTACT:
SOURCE: EPA

REV: 10/1/08
ID1: 10000002-37
ID2: 10136
STATUS: EPA BROWNFIELD
PHONE:

SITE INFORMATION:

RECIPIENT NAME: R2 TBA (SUPERFUND FUNDED)
GRANT PROJ NAME: R2 TBA (SUPERFUND FUNDED)
CURRENT USE:
FUTURE USE:
PAST USAGE TYPE:
FUTURE USAGE TYPE:
START DATE: 10/22/2002
COMPLETION DATE: 10/22/2002
CLEANUP REQUIRED:
ACCOMP TYPE: PHASE II ENVIRONMENTAL ASSESSMENT
ACCOMP AMOUNT(ACRES):

PROPERTY ID: 10136
PARCEL NUMBER:
PROPRETY SIZE:

CURRENT OWNER:
OWNER ENTITY:

CONTAMINATION FOUND

PETROLEUM PROD:
ASBESTOS:
VOCS:
OTHER METALS:
OTHER:
UNKNOWN:
CONTROLLED SUB:
PCBS:
LEAD:
PAHS:
NONE:

MEDIA FOUND

SOIL:
SURFACE WATER:
DRINKING WATER:
AIR:
GROUND WATER:
SEDIMENTS:

CONTAMINANTS CLEANED UP

PETROLEUM:
ASBESTOS:
VOC:
OTHER METAL:
OTHER:
NONE:
CONTROLLED SUB:
PCB:
LEAD:
PAHS:
UNKNOWN:

MEDIA CLEANED UP

SOIL:
SURFACE WATER:
DRINKING WATER:
UNKNOWN:
AIR:
GROUND WATER:
SEDIMENTS:
NONE:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

FEDBF

SEARCH ID: 888 **DIST/DIR:** 0.13 NE **ELEVATION:** 14 **MAP ID:** 43

NAME: JACKSON STREET GARAGE
ADDRESS: 116 JACKSON ST
HOBOCKEN NJ

CONTACT:
SOURCE: EPA

REV: 10/1/08
ID1: 10000002-37
ID2: 10136
STATUS: EPA BROWNFIELD
PHONE:

STATE/TRIBAL PROG ID:
STATE/TRIBE PROG ENROLL:
NOT ENROLLED:
NFA ISSUE DATE:
IC REQUIRED:
IC IN PLACE: U
IC IN PLACE DATE:
PROPRIETARY CONTROLS:
GOVERNMENTAL CONTROLS:
ENFORCE PERM TOOLS:
INFORM DEVICES:
IC DATA ADDRESS:
PHOTO AVAIL:
VIDEO AVAIL:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 26 **DIST/DIR:** 0.13 NE **ELEVATION:** 11 **MAP ID:** 41

NAME: 109 HARRISON STREET LLC
ADDRESS: 109 HARRISON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 256830
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

STATE

SEARCH ID: 23 **DIST/DIR:** 0.13 NE **ELEVATION:** 14 **MAP ID:** 40

NAME: 108 JACKSON ST LLC
ADDRESS: 108 JACKSON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL800561904
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL800561904
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0905
STATUS: ACTIVE
DATE: 5/8/00 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF FIELD OPERATIONS NORTHERN (973) 669-3960

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 24 **DIST/DIR:** 0.13 NE **ELEVATION:** 14 **MAP ID:** 40

NAME: 108 JACKSON ST LLC
ADDRESS: 108 JACKSON ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000043386
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

STATE

SEARCH ID: 503 **DIST/DIR:** 0.13 NE **ELEVATION:** 14 **MAP ID:** 43

NAME: JACKSON STREET GARAGE
ADDRESS: 116 JACKSON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 189864
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

KNOWN CONTAMINATED SITES LIST 2006 DATA b0
PREFERRED ID: 189864
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 2/13/2003
REMEDIATION LEVEL: C1-Remediation does not require a formal design. The source of the contamination is known or has been identified. There is a potential for ground water contamination.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: None
DEED NOTICE DATE:
ENGINEERING CONTROLS: None
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: OBR-Office of Brownfield Reuse (609) 292-1251

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 679 **DIST/DIR:** 0.13 NE **ELEVATION:** 11 **MAP ID:** 41

NAME: 109 HARRISON STREET LLC
ADDRESS: 109 HARRISON ST
HOBOKEN CITY NJ 07039
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 256830
ID2: 256830
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: KEVIN PELZER
OWNER ORGANIZATION: KEVIN S AUTO REPAIR
OWNER ADDRESS: 17 COLLEGE PL
Rutherford NJ 07070

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: E1
TANK SIZE: 3000
TANK CONTENTS: Medium Diesel Fuel (No. 2-D)
INSTALL DATE: 1/1/1944
TANK STATUS: Removed
TANK STATUS DATE: 6/1/2006
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: E2
TANK SIZE: 3000
TANK CONTENTS: Medium Diesel Fuel (No. 2-D)
INSTALL DATE: 1/1/1944
TANK STATUS: Removed
TANK STATUS DATE: 6/1/2006
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-3
TANK NUMBER: E3
TANK SIZE: 550
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1944
TANK STATUS: Removed

- Continued on next page -

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 679 **DIST/DIR:** 0.13 NE **ELEVATION:** 11 **MAP ID:** 41

NAME: 109 HARRISON STREET LLC
ADDRESS: 109 HARRISON ST
HOBOKEN CITY NJ 07039
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 256830
ID2: 256830
STATUS: INACTIVE
PHONE:

TANK STATUS DATE: 5/31/2006
TANK ID: TANK-3
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-4
TANK NUMBER: E4
TANK SIZE: 550
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1944
TANK STATUS: Removed
TANK STATUS DATE: 5/31/2006
TANK ID: TANK-4
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 951 **DIST/DIR:** 0.13 NE **ELEVATION:** 14 **MAP ID:** 43

NAME: JACKSON STREET GARAGE
ADDRESS: 116 JACKSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 02-12-05-0109-20
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 2/13/2003
CONTACT: of Hoboken
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

VCP

SEARCH ID: 901 **DIST/DIR:** 0.13 NE **ELEVATION:** 14 **MAP ID:** 40

NAME: 108 JACKSON STREET LLC
ADDRESS: 108 JACKSON ST
HOBOKEN NJ 07002
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 00-04-06-0003-44
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 4/26/2000
CONTACT: /O United Diversified Incorporated
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 686 **DIST/DIR:** 0.13 NW **ELEVATION:** 10 **MAP ID:** 44

NAME: FORMER EHRILICH TRUCKING FACILITY
ADDRESS: 111 MARSHALL ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0137126
ID2: 013712
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: RENE ABREU
OWNER ORGANIZATION: GATEWAY I, LLC
OWNER ADDRESS: 6808 BERGENLINE AVE
Guttenberg NJ 07093

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: E1
TANK SIZE: 3000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1987
TANK STATUS: Removed
TANK STATUS DATE: 6/13/1997
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: E2
TANK SIZE: 550
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1987
TANK STATUS: Removed
TANK STATUS DATE: 6/13/1997
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 811 **DIST/DIR:** 0.13 SE **ELEVATION:** 12 **MAP ID:** 42

NAME: RESID
ADDRESS: 60 MADISON ST
HOBOKEN CITY NJ 07601
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 07-12-11-1332-43
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 12/11/2007
RECEIVED DATE: 12/11/2007
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL FUEL 2
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: OIL TANK SRVCS
REPORTER RECEIVED DATE: 12/11/2007

SOURCE INFORMATION

58 MADISON LLC
58 MADISON ST
HOBOKEN CITY NJ 07601
CONTACT: FRANK LEANZA

REMOVAL OF 1-550 UST

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

STATE

SEARCH ID: 238 **DIST/DIR:** 0.13 SE **ELEVATION:** 12 **MAP ID:** 42

NAME: 60 MADISON STREET
ADDRESS: 60 MADISON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 459396
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: Yes

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 847 **DIST/DIR:** 0.13 SW **ELEVATION:** 11 **MAP ID:** 45

NAME: ROADWAY
ADDRESS: HARRISON ST and NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 91-6-12-0022-59
ID2:
STATUS: SPILL, L.U.S.T.
PHONE:

INCIDENT DATE: 6/11/1991 **RECEIVED DATE:** 6/12/1991
INCIDENT TIME: 2325 **OPERATOR:** JOEG

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: MUNICIPAL **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: GASOLINE
CAS No.
AMOUNT RELEASED: 500 GALS. **VERIFICATION:** ESTIMATE
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** CONTINUOUS

INCIDENT DESCRIPTION: SPILL, L.U.S.T.
STATUS AT SCENE:
MATERIAL IS LEAKING FROM AN UNDERGROUND TANK. MATERIAL ENTERED THE SANITARY SEWER.
CONTAMINATION: LAND,WATER **RECEIVING WATER:** N/A

A310 LETTER: N **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: Y **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** Y
ASST. REQUESTED: Y

SPILLER NAME: **STATUS:** UNKNOWN
CONTACT: **TITLE:**
ADDRESS:
,
PHONE: **COUNTY:**

CALLER NAME: DISP MCALE **TITLE:** HOBAKEN F.D.
ADDRESS:
,
PHONE: 201-420-2007

NJSP NAME: OEM **TITLE:** WOODMIER
PHONE: 609-882-2000
DATE: 6/12/1991 **TIME:** 0030

MUNICIPAL: **TITLE:**
PHONE:
DATE: **TIME:**

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: C. GIBBONS **REFERRAL:** DEQ
REGION: ER1 **PHONE:** HOME
DATE: 6/12/1991 **TIME:** 0026
FAX/MAIL: T

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 847 **DIST/DIR:** 0.13 SW **ELEVATION:** 11 **MAP ID:** 45

NAME: ROADWAY
ADDRESS: HARRISON ST and NEWARK ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 91-6-12-0022-59
ID2:
STATUS: SPILL, L.U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 27 **DIST/DIR:** 0.14 NE **ELEVATION:** 15 **MAP ID:** 48

NAME: 110 JACKSON ST
ADDRESS: 110 JACKSON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL800561912
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL800561912
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0905
STATUS: ACTIVE
DATE: 5/8/00 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF FIELD OPERATIONS NORTHERN (973) 669-3960

STATE

SEARCH ID: 35 **DIST/DIR:** 0.14 NE **ELEVATION:** 15 **MAP ID:** 49

NAME: 112 JACKSON ST LLC
ADDRESS: 112 JACKSON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL800561920
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL800561920
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0905
STATUS: ACTIVE
DATE: 5/8/00 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF FIELD OPERATIONS NORTHERN (973) 669-3960

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 36 **DIST/DIR:** 0.14 NE **ELEVATION:** 15 **MAP ID:** 49

NAME: 112 JACKSON ST LLC
ADDRESS: 112 JACKSON ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000043388
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

STATE

SEARCH ID: 384 **DIST/DIR:** 0.14 NE **ELEVATION:** 11 **MAP ID:** 50

NAME: ALLIED PUMP FACILITY FORMER
ADDRESS: 128 HARRISON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 254482
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

STATE

SEARCH ID: 28 **DIST/DIR:** 0.14 NE **ELEVATION:** 15 **MAP ID:** 48

NAME: 110 JACKSON ST
ADDRESS: 110 JACKSON ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000043387
ID2:
STATUS: CLOSED
PHONE:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 28 **DIST/DIR:** 0.14 NE **ELEVATION:** 15 **MAP ID:** 48

NAME: 110 JACKSON ST
ADDRESS: 110 JACKSON ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000043387
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

VCP

SEARCH ID: 904 **DIST/DIR:** 0.14 NE **ELEVATION:** 15 **MAP ID:** 49

NAME: 112 JACKSON STREET LLC
ADDRESS: 112 JACKSON ST
HOBOKEN NJ 07002
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 00-04-06-0000-35
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 4/26/2000
CONTACT: /O United Diversified Incorporated
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 902 **DIST/DIR:** 0.14 NE **ELEVATION:** 15 **MAP ID:** 48

NAME: 110 JACKSON STREET LLC
ADDRESS: 110 JACKSON ST
HOBOKEN NJ 07002
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 00-04-06-0004-44
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 4/26/2000
CONTACT: /O United Diversified Incorporated
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

LUST

SEARCH ID: 698 **DIST/DIR:** 0.14 NW **ELEVATION:** 10 **MAP ID:** 52

NAME: 108 MARSHALL ST
ADDRESS: 108 MARSHALL ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/11/02
ID1: LU-0502-3403
ID2:
STATUS:
PHONE:

SITE INFORMATION

STATUS: NO FURTHER ACTION - AREA OF CONCERN
NFA DATE: 1/3/2001 0:00:00
UST NUMBER: 0113780
TMS NUMBER: N00-0269
REMEDIAL LEVEL: ONE AREA OF CONCERN WITH ONE MEDIA OF CONCERN
LEAD AGENCY: BUREAU OF FIELD OPERATIONS - INITIAL NOTICE
CASE MANAGER: CORBIN WECK
CM PHONE: (609) 292-9519
CEA:
DATE CEA LIFTED:
DEAD NOTICE:

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 678 **DIST/DIR:** 0.14 NW **ELEVATION:** 10 **MAP ID:** 52

NAME: 108 MARSHALL ST
ADDRESS: 108 MARSHALL ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0113780
ID2: 011378
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: ABRAHAM KRAMER
OWNER ORGANIZATION: ABRAHAM KRAMER
OWNER ADDRESS: 112 CLINTON ST
Hoboken NJ 07030

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: 1
TANK SIZE: 1000
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1967
TANK STATUS: Removed
TANK STATUS DATE: 5/2/2000
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: 2
TANK SIZE: 300
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1967
TANK STATUS: Removed
TANK STATUS DATE: 5/2/2000
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-3
TANK NUMBER: 3
TANK SIZE: 2000
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1967
TANK STATUS: Removed

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 678 **DIST/DIR:** 0.14 NW **ELEVATION:** 10 **MAP ID:** 52

NAME: 108 MARSHALL ST
ADDRESS: 108 MARSHALL ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0113780
ID2: 011378
STATUS: INACTIVE
PHONE:

TANK STATUS DATE: 5/2/2000
TANK ID: TANK-3
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-4
TANK NUMBER: 4
TANK SIZE: 2000
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1967
TANK STATUS: Removed
TANK STATUS DATE: 5/2/2000
TANK ID: TANK-4
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-5
TANK NUMBER: 5
TANK SIZE: 2000
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1967
TANK STATUS: Removed
TANK STATUS DATE: 5/2/2000
TANK ID: TANK-5
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 752 **DIST/DIR:** 0.14 SE **ELEVATION:** 12 **MAP ID:** 53

NAME: FIREHOUSE TRUCK 2
ADDRESS: 43 MADISON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 02-11-15-1019-26
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 11/14/2002
RECEIVED DATE: 11/15/2002
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: COMMERCIAL
CATEGORY: FACILITY

INCIDENT INFORMATION

SUBSTANCE: OIL DIESEL
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY: 0
UNITS: UNKNOWN
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: FACILITY REP.
REPORTER ORG: SCHOOR DEPALMA
REPORTER RECEIVED DATE: 11/15/2002

SOURCE INFORMATION

CITY OF HOBOKEN
94 WASHINGTON STREET
HOBOKEN CITY NJ 07030
CONTACT: DIR OF ENVIRONMENTAL SERVICES

RELEASE OF DIESEL FUEL FROM A 550 GAL UST. SOIL CONTAMINATION. CLEANUP IS PENDING.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 9 **DIST/DIR:** 0.14 SE **ELEVATION:** 11 **MAP ID:** 47

NAME: HOBOKEN FIREHOUSE
ADDRESS: 55 MADISON - AKA 256 ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: EPA

REV: 7/11/11
ID1: NJR000049163
ID2:
STATUS: VGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: EDWIN PRECILLA
HUDSON AVE BEST CONTROL ENVIRONMENTAL COR
WEST NEW YORK NJ 07093

PHONE: 2017582638

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA PERMIT: *N - NO*
GPRA POST CLOSURE: *N - NO*
GPRA CA: *N - NO*
GPRA COMPLIANCE MONITORING and ENFORCEMENT: *N - NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO

SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC: N - NO
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: LQG - LARGE QUANTITY GENERATORS: GENERATES MORE THAN 1000 KG/MONTH OF HAZARDOUS WASTE

NAIC INFORMATION

56291 - REMEDIATION SERVICES

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Lead

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

STATE

SEARCH ID: 474 **DIST/DIR:** 0.14 SE **ELEVATION:** 12 **MAP ID:** 51

NAME: HETZEL PROPERTY
ADDRESS: 65 MADISON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000023296
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 685 **DIST/DIR:** 0.14 SE **ELEVATION:** 11 **MAP ID:** 47

NAME: FIREHOUSE TRUCK 2
ADDRESS: 55 MADISON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0331463
ID2: 033146
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: DAVID CALAMONERI
OWNER ORGANIZATION: CITY OF HOBOKEN
OWNER ADDRESS: 94 WASHINGTON ST
Hoboken NJ 07030

TANK INFORMATION
FACILITY TYPE: County/Municipal

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: D2
TANK SIZE: 2000
TANK CONTENTS: Light Diesel Fuel (No. 1-D)
INSTALL DATE: 1/1/1949
TANK STATUS: Removed
TANK STATUS DATE: 11/1/2002
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-3
TANK NUMBER: H1
TANK SIZE: 2000
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1949
TANK STATUS: Removed
TANK STATUS DATE: 11/1/2002
TANK ID: TANK-3
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

NFRAP

SEARCH ID: 3 **DIST/DIR:** 0.14 SW **ELEVATION:** 10 **MAP ID:** 46

NAME: IDEAL COOPERAGE INC
ADDRESS: 3 NEW YORK AVE
JERSEY CITY NJ 07307
HUDSON
CONTACT:
SOURCE: EPA

REV: 7/26/11
ID1: NJD980532907
ID2: 0200745
STATUS: NFRAP-N
PHONE:

DESCRIPTION:
THE 1.3 ACRE SITE WAS USED AS A STORAGE AREA REPORTED TO BE FOR EMPTY DRUMS. DRUM RINSING AND RECONDITIONING WAS PERFORMED AT AN ADJACENT FACILITY. 1800 DRUMS OF WHICH 10% CONTAIN LIQUID OR SOLID MATERIAL WERE ABANDONED ON THE SITE. Removal approval f

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
ARCHIVE SITE	EPA In-House		5/5/2000
Public Notice Published	EPA Fund-Financed		5/9/1991
ISSUE REQ LTTRS (104e)	Federal Enforcement		1/18/1995
ADMINISTRATIVE RECORDS ADMIN RECORD COMPILED FOR A REMOVAL EVENT	EPA Fund-Financed	19-91-5/7/ Primary	5/7/1991
DISCOVERY	EPA Fund-Financed		8/1/1980
HRS PACKAGE	Other		8/1/1982
NON-NPL PRP SEARCH SEARCH COMPLETE, NO VIABLE PRPS	Federal Enforcement Primary	/1-95-1/23	6/27/1995
PRELIMINARY ASSESSMENT NFRAP: NO FURTHER REMEDIAL ACTION PLANNED	State, Fund Financed	19-89-3/1/	3/8/1989
PRELIMINARY ASSESSMENT NFRAP: NO FURTHER REMEDIAL ACTION PLANNED	State, Fund Financed	19-85-5/1/	5/31/1985
REMOVAL CLEANED UP	EPA Fund-Financed Primary	7/-90-12/2	11/29/1991
SITE INSPECTION NFRAP: NO FURTHER REMEDIAL ACTION PLANNED	EPA Fund-Financed	19-80-8/1/	8/1/1982

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 511 **DIST/DIR:** 0.14 SW **ELEVATION:** 10 **MAP ID:** 46

NAME: K MART APPAREL CORP
ADDRESS: 7373 WEST SIDE AVE
NORTH BERGEN TWP NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 016819
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

STATE

SEARCH ID: 500 **DIST/DIR:** 0.14 SW **ELEVATION:** 10 **MAP ID:** 46

NAME: IDEAL COOPERAGE INCORPORATED
ADDRESS: 3 TO 5 NEW YORK AVE
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000004613
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

KNOWN CONTAMINATED SITES LIST 2006 DATA b0
PREFERRED ID: G000004613
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 7/7/1997
REMEDIATION LEVEL: C3-A multi-phased remediation action. Where the source of the contamination is either unknown or there is an uncontrolled discharge to Soil and/or ground water.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: None
DEED NOTICE DATE:
ENGINEERING CONTROLS: None
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: BCM-Bureau of Case Management (609) 633-1455

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

STATE

SEARCH ID: 499 **DIST/DIR:** 0.14 SW **ELEVATION:** 10 **MAP ID:** 46

NAME: IDEAL COOPERAGE INCORPORATED
ADDRESS: 3 NEW YORK AVE
JERSEY CITY NJ 07307
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJD980532907
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJD980532907
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0906
STATUS: ACTIVE
DATE: 7/22/97 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF SITE MANAGEMENT (609) 984-2990

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

FEDBF

SEARCH ID: 887 **DIST/DIR:** 0.15 NE **ELEVATION:** 16 **MAP ID:** 56

NAME: JACKSON STREET GARAGE
ADDRESS: 116 JACKSON ST
HOBOCKEN NJ 07030
CONTACT:
SOURCE: EPA

REV: 7/5/11
ID1: 10000002-10136
ID2: 10136
STATUS: EPA BROWNFIELD
PHONE:

SITE INFORMATION:

PROPERTY SIZE (acres):
PARCEL NUMBER:
CURRENT OWNER:
OWNERSHIP ENTITY:

MEDIA FOUND

SOIL:
SURFACE WATER:
DRINKING WATER:
AIR:
GROUND WATER:
SEDIMENTS:

CONTAMINANTS CLEANED UP

PETROLEUM:
ASBESTOS:
VOC:
OTHER METAL:
OTHER:
NONE:
CONTROLLED SUB:
PCB:
LEAD:
PAHS:
UNKNOWN:

MEDIA CLEANED UP

SOIL:
SURFACE WATER:
DRINKING WATER:
UNKNOWN:
AIR:
GROUND WATER:
SEDIMENTS:
NONE:

STATE/TRIBAL PROG ID:
STATE/TRIBE PROG ENROLL:
NOT ENROLLED:
NFA ISSUE DATE:
IC REQUIRED:
IC IN PLACE: U
IC IN PLACE DATE:
PROPRIETARY CONTROLS:
GOVERNMENTAL CONTROLS:
ENFORCE PERM TOOLS:
INFORM DEVICES:
IC DATA ADDRESS:
PHOTO AVAIL:
VIDEO AVAIL:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 765 **DIST/DIR:** 0.15 NE **ELEVATION:** 17 **MAP ID:** 54

NAME: JOE S TEXACO
ADDRESS: 117 JACKSON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 7/11/02
ID1: LU-90-01-17-1443
ID2:
STATUS:
PHONE:

SITE INFORMATION

STATUS: NO FURTHER ACTION - AREA OF CONCERN
NFA DATE: 2/10/1992 0:00:00
UST NUMBER: 0211772
TMS NUMBER:
REMEDIAL LEVEL:
LEAD AGENCY: BUREAU OF UNDERGROUND STORAGE TANKS
CASE MANAGER:
CM PHONE:
CEA:
DATE CEA LIFTED:
DEAD NOTICE:

STATE

SEARCH ID: 615 **DIST/DIR:** 0.15 NE **ELEVATION:** 17 **MAP ID:** 54

NAME: THE MUFFLER SHOP INC
ADDRESS: 117 JACKSON ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 021177
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 696 **DIST/DIR:** 0.15 NE **ELEVATION:** 17 **MAP ID:** 54

NAME: THE MUFFLER SHOP INC
ADDRESS: 117 JACKSON ST
HOBOKEN CITY NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0211772
ID2: 021177
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: JOSEPH MANNINO
OWNER ORGANIZATION: JOSEPH P MANNINO
OWNER ADDRESS: 117 JACKSON ST
Hoboken NJ 07030

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: 0001
TANK SIZE: 12000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1969
TANK STATUS: Removed
TANK STATUS DATE: 1/17/1990
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: 0002
TANK SIZE: 12000
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1969
TANK STATUS: Removed
TANK STATUS DATE: 1/17/1990
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-3
TANK NUMBER: 0003
TANK SIZE: 12000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1979
TANK STATUS: Removed

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

UST

SEARCH ID: 696 **DIST/DIR:** 0.15 NE **ELEVATION:** 17 **MAP ID:** 54

NAME: THE MUFFLER SHOP INC
ADDRESS: 117 JACKSON ST
HOBOKEN CITY NJ 07030

CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0211772
ID2: 021177
STATUS: INACTIVE
PHONE:

TANK STATUS DATE: 1/17/1990
TANK ID: TANK-3
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 745 **DIST/DIR:** 0.15 NW **ELEVATION:** 11 **MAP ID:** 55

NAME:	EHRLICH TRUCKING (FORMER)	**REV:**	7/11/02
ADDRESS:	119 MARSHALL ST	**ID1:**	LU-96-06-14-1200-52
	HOBOKEN NJ 07030	**ID2:**	
	HUDSON	**STATUS:**	
CONTACT:		**PHONE:**	
SOURCE:	NJDEP		

SITE INFORMATION

STATUS:	NO FURTHER ACTION - AREA OF CONCERN
NFA DATE:	3/13/2001 0:00:00
UST NUMBER:	0313463
TMS NUMBER:	C98-1917; C96-0437
REMEDIAL LEVEL:	CONFIRMED SOIL AND GROUND WATER CONTAMINATION
LEAD AGENCY:	BUREAU OF UNDERGROUND STORAGE TANKS
CASE MANAGER:	WARD INGERSOLL
CM PHONE:	(609) 292-0568
CEA:	Y
DATE CEA LIFTED:	
DEAD NOTICE:	Y

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 732 **DIST/DIR:** 0.15 NW **ELEVATION:** 11 **MAP ID:** 55

NAME: COMMERCIAL BUILDING
ADDRESS: 119 MARSHALL ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-4-30-1215-05
ID2:
STATUS: L.U.S.T.
PHONE:

INCIDENT DATE: 4/30/1998 **RECEIVED DATE:** 4/30/1998
INCIDENT TIME: **OPERATOR:** PAT

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: GASOLINE
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: L.U.S.T.
STATUS AT SCENE:
ONE 550 GAL UST REMOVED. TMS C96-0437 UST 0313463.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: PROPERTY OWNER **STATUS:** KNOWN
CONTACT: BERNARD EHRLICH **TITLE:** OWNER
ADDRESS:
,
PHONE: 201-658-8852 **COUNTY:**

CALLER NAME: FRANK ACCORSI **TITLE:** PMK GROUP
ADDRESS: 629 SPRINGFIELD AVE
KENILWORTH, NJ
PHONE: 908-686-0044

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPR 54
PHONE: 201-420-2004
DATE: 4/30/1998 **TIME:** 1221

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 4/30/1998 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 732 **DIST/DIR:** 0.15 NW **ELEVATION:** 11 **MAP ID:** 55

NAME: COMMERCIAL BUILDING
ADDRESS: 119 MARSHALL ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-4-30-1215-05
ID2:
STATUS: L.U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 768 **DIST/DIR:** 0.15 NW **ELEVATION:** 11 **MAP ID:** 55

NAME: LOT 13,14,and 15 BLOCK 25
ADDRESS: 119 MARSHALL ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 96-6-14-1200-52
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

INCIDENT DATE: 6/14/1996 **RECEIVED DATE:** 6/14/1996
INCIDENT TIME: 1159 **OPERATOR:** ROB

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: GASOLINE
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: U.S.T.,SOIL CONTAMINATION
STATUS AT SCENE:
1/750 GAL UST REMOVED. SOIL CONTAMINATION FOUND AND WILL BE REMOVED BY CONTRACTOR. UST 0313463 TMS C96-0437.
CONTAMINATION: LAND **RECEIVING WATER:** NONE

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: BERNARD AND MURRAY E **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS: 2162 SUNDERLAND AVE
WELLINGTON, FL
PHONE: 201-659-8852 **COUNTY:**

CALLER NAME: WILLIAM MOODY **TITLE:** AWK ASOC.
ADDRESS: 711 EAST MAIN ST
BRIDGEWATER, NJ
PHONE: 908-356-6688

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** OPR. 22
PHONE: 201-420-2004
DATE: 6/14/1996 **TIME:** 1211

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:** FAXED,MAILED
DATE: 6/14/1996 **TIME:**
FAX/MAIL: B

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 768 **DIST/DIR:** 0.15 NW **ELEVATION:** 11 **MAP ID:** 55

NAME: LOT 13,14,and 15 BLOCK 25
ADDRESS: 119 MARSHALL ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 96-6-14-1200-52
ID2:
STATUS: U.S.T.,SOIL CONTAMINATION
PHONE:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 687 **DIST/DIR:** 0.15 NW **ELEVATION:** 11 **MAP ID:** 55

NAME: FORMER EHRLICH TRUCKING
ADDRESS: 119 MARSHALL ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0313463
ID2: 031346
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: RENE ABREU
OWNER ORGANIZATION: GATEWAY II
OWNER ADDRESS: 6808 BERGENLINE AVE
Guttenberg NJ 07093

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: E001
TANK SIZE: 3000
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1960
TANK STATUS: Removed
TANK STATUS DATE: 4/2/1997
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: E002
TANK SIZE: 3000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1960
TANK STATUS: Removed
TANK STATUS DATE: 4/2/1997
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-3
TANK NUMBER: E003
TANK SIZE: 3000
TANK CONTENTS: Leaded Gasoline
INSTALL DATE: 1/1/1960
TANK STATUS: Removed

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 687 **DIST/DIR:** 0.15 NW **ELEVATION:** 11 **MAP ID:** 55

NAME: FORMER EHRLICH TRUCKING
ADDRESS: 119 MARSHALL ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0313463
ID2: 031346
STATUS: INACTIVE
PHONE:

TANK STATUS DATE: 4/2/1997
TANK ID: TANK-3
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-4
TANK NUMBER: E004
TANK SIZE: 550
TANK CONTENTS: Waste Oil
INSTALL DATE: 1/1/1960
TANK STATUS: Removed
TANK STATUS DATE: 4/28/1998
TANK ID: TANK-4
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 844 **DIST/DIR:** 0.16 NE **ELEVATION:** 17 **MAP ID:** 58

NAME: RESIDENCE AT
ADDRESS: 109 MONROE ST
HOBOKEN CITY NJ

CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 10-03-16-1401-23
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 3/16/2010
RECEIVED DATE: 3/16/2010
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL HEATING 2
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: REDATED
REPORTER RECEIVED DATE: 3/16/2010

SOURCE INFORMATION

Tand M CONTRACTING
107 WILLOW AVE
HOBOKEN CITY NJ 07030
CONTACT: DENNIS

SUSPECT SOIL CONTAMINATION DURING REMOVAL OF 1/550 GAL UST. CLEANUP PENDING.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

STATE

SEARCH ID: 608 **DIST/DIR:** 0.16 NE **ELEVATION:** 17 **MAP ID:** 58

NAME: T M CONTRACTING COMPANY INCORPORATED
ADDRESS: 109 MONROE ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 532420
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: Yes

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 876 **DIST/DIR:** 0.16 NW **ELEVATION:** 11 **MAP ID:** 60

NAME: VACANT LOT
ADDRESS: 16 NEW YORK
UNION CITY NJ 07087
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-2-13-1019-52
ID2:
STATUS: L.U.S.T.
PHONE:

INCIDENT DATE: 2/13/1998 **RECEIVED DATE:** 2/13/1998
INCIDENT TIME: **OPERATOR:** CHRIS

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: GASOLINE
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: L.U.S.T.
STATUS AT SCENE:
4/4000 GAL. TANKS/1 KNOWN LEAKING.CLEANUP TO BE DONE
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: **STATUS:** KNOWN
CONTACT: DAVE LUTCH **TITLE:** OWNER
ADDRESS: 96 BEACON ST
JERSEY CITY, NJ
PHONE: 201-432-0454 **COUNTY:** HUDSON

CALLER NAME: VINCE GRECO **TITLE:** ACTIVE OIL
ADDRESS: 110 RIVERSIDE AVE
NEWARK, NJ
PHONE: 973-482-4600

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: UNION CITY **TITLE:** OPER 988
PHONE: 201-865-1111
DATE: 2/13/1998 **TIME:** 1045

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 2/13/1998 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 876 **DIST/DIR:** 0.16 NW **ELEVATION:** 11 **MAP ID:** 60

NAME: VACANT LOT
ADDRESS: 16 NEW YORK
UNION CITY NJ 07087
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 07-28-98
ID1: 98-2-13-1019-52
ID2:
STATUS: L.U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 877 **DIST/DIR:** 0.16 NW **ELEVATION:** 11 **MAP ID:** 60

NAME: VACANT LOT
ADDRESS: 16 NEW YORK AVE
UNION CITY NJ 07087
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/11/02
ID1: LU-98-02-13-1019-52
ID2:
STATUS:
PHONE:

SITE INFORMATION

STATUS: AWAITING ASSIGNMENT
NFA DATE:
UST NUMBER:
TMS NUMBER:
REMEDIAL LEVEL:
LEAD AGENCY: BUREAU OF FIELD OPERATIONS - INITIAL NOTICE
CASE MANAGER:
CM PHONE:
CEA:
DATE CEA LIFTED:
DEAD NOTICE:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 790 **DIST/DIR:** 0.16 SE **ELEVATION:** 12 **MAP ID:** 59

NAME: PARKING LOT
ADDRESS: 551 NEWARK ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 90-12-06-1556
ID2:
STATUS: L.U.S.T.
PHONE:

INCIDENT DATE: 12/05/1990 **RECEIVED DATE:** 12/06/1990
INCIDENT TIME: 1500 **OPERATOR:** PHIL

LOCATION TYPE: RESIDENTIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** OTHER
SUBSTANCE IDENTITY: SUSPECTED **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: GASOLINE
CAS No.
AMOUNT RELEASED: UNK UNK **VERIFICATION:**
SUBSTANCE CONTAINED: N **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: L.U.S.T.
STATUS AT SCENE:

CONTAMINATION: **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: OBSERVER CONST.CO **STATUS:** KNOWN
CONTACT: ARTHUR FALKIN **TITLE:** SECRETARY
ADDRESS: 70 JACKSON DR
CRANFORD, NJ
PHONE: 201-709-0909 **COUNTY:** UNION

CALLER NAME: ARTHER FALKIN **TITLE:** OBSERVER CONST. CO
ADDRESS:
,
PHONE: 201-709-0909

NJSP NAME: **TITLE:** OEM
PHONE:
DATE: 12/06/1990 **TIME:**

MUNICIPAL: DISP 22 **TITLE:** FD HOBOKEN
PHONE: 201-420-2004
DATE: 12/05/1990 **TIME:** 1616

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DEQ
REGION: HQ1 **PHONE:**
DATE: 12/06/1990 **TIME:**
FAX/MAIL: M

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 790 **DIST/DIR:** 0.16 SE **ELEVATION:** 12 **MAP ID:** 59

NAME: PARKING LOT
ADDRESS: 551 NEWARK ST
HOBOKEN NJ 07030

CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 90-12-06-1556
ID2:
STATUS: L.U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 475 **DIST/DIR:** 0.16 SE **ELEVATION:** 12 **MAP ID:** 57

NAME: HETZEL PROPERTY
ADDRESS: 65 MADISON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL800062325
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL800062325
SUBSECTION LABEL: SITES WITH CLOSED CASE(S) WITH RESTRICTIONS
COMU: 0905
STATUS: NO FURTHER ACTION FOR A PARTIAL AREA OF A SITE
DATE: 6/26/97 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE: RESIDUAL SOIL CONTAMINATION AND LIMITS HUMAN ACTIVITIES
CONTACT: BUREAU OF FIELD OPERATIONS NORTHERN (973) 669-3960

VCP

SEARCH ID: 959 **DIST/DIR:** 0.16 SE **ELEVATION:** 12 **MAP ID:** 57

NAME: OVF DEVELOPMENT SITE
ADDRESS: 60 JEFFERRSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 94-05-20-1803-02M
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 1/10/1996
CONTACT: Vallone
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

FIMAP

SEARCH ID: 882 **DIST/DIR:** 0.16 SW **ELEVATION:** **MAP ID:** 61

NAME: FIRE INSURANCE MAP
ADDRESS:
JERSEY CITY NJ 07306
CONTACT:
SOURCE:

REV: 11/18/98
ID1: POLY-9730
ID2:
STATUS: HOPKINS
PHONE:

SITE INFORMATION

SOURCE COLLECTION: HOPKINS

NUMBER OF MAPS: UNDETERMINED

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Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

ENGCONTROL

SEARCH ID: 890 **DIST/DIR:** 0.17 NE **ELEVATION:** **MAP ID:** 65

NAME: BROWNSTONE CO.
ADDRESS: 129 ,131,133 JACKSON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJ DEP

REV: 4/4/07
ID1: DNA-419
ID2: NJL800405912
STATUS: DEED NOTICE EXTENT
PHONE:

SITE INFORMATION

DEED NOTICE EXTENT DATA

KCSL NUMBER: NJL800405912
CASE IDENTIFIER: 98-5-13-0048-37
NJDEP LEAD UNIT: BUREAU OF FIELD OPERATIONS - NORTHERN OFFICE
DEED NOTICE APPROVED: JULY 24, 2000
DN PART OF FINAL REMEDY: YES
DEPTH OF CONTAM: 6 +
SCALE DIGITIZED:
DEED NOTICE AREA(acres): 0.557313
CAP TYPE: Build 5 cncrt fl /2.5 pavers ovr2 sandand2to5 gravel
DURATION: INDETERM.

CONTAMINANTS
VOLATILE ORGANIC:
SEMI VOLATILE ORGANIC:
METALS: COPPER,LEAD
PESTICIDES:
CARCINOGENIC PAH:
PCB:
RADIONUCLEIDE:
ASBESTOS:
TOT PETROLEUM HYDRO:
TENT ID COMPOUNDS:
HISTORIC FILL:

BENZO CONTAMINATION
[A] ANTHRACENE: YES
[A] PYRENE: YES
[B] FLOURENE: YES
[G,H,I] PERYLENE:
[K] FLOURANTHENE: YES

IDENO [1,2,3-cd] PYRENE: YES
DIBENZ [A,H] ANTHACENE:
CHRYSENE:
OTHER:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 872 **DIST/DIR:** 0.17 NW **ELEVATION:** 12 **MAP ID:** 62

NAME: V PONTE and SONS INC
ADDRESS: 2 HOPE ST
JERSEY CITY NJ 07307
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/11/02
ID1: LU-01-02-26-1215-38
ID2:
STATUS:
PHONE:

SITE INFORMATION

STATUS: ASSIGNED TO A PROGRAM
NFA DATE:
UST NUMBER: 0007913
TMS NUMBER: N00-0575
REMEDIAL LEVEL: MORE THAN ONE AREA OF CONCERN WITH MORE THAN ONE MEDIA OF CONCERN
LEAD AGENCY: BUREAU OF UNDERGROUND STORAGE TANKS
CASE MANAGER: DEBRA CYPRESS
CM PHONE:
CEA:
DATE CEA LIFTED:
DEAD NOTICE:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 871 **DIST/DIR:** 0.17 NW **ELEVATION:** 12 **MAP ID:** 62

NAME: V PONTE and SONS INC
ADDRESS: 24 HOPE ST
JERSEY CITY NJ 07307
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 95-4-11-1712-03
ID2:
STATUS: U.S.T.
PHONE:

INCIDENT DATE: 4/11/1995 **RECEIVED DATE:** 4/11/1995
INCIDENT TIME: 1706 **OPERATOR:** ROB

LOCATION TYPE: COMMERCIAL

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: OIL HEATING 2
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: U.S.T.
STATUS AT SCENE:
1/550 GAL UST WAS REMOVED. POSSIBLE SOIL CONTAMINATION WILL BE REMOVED BY CONTRACTOR.
CONTAMINATION: LAND **RECEIVING WATER:** NONE

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: V PONTE and SONS INC **STATUS:** KNOWN
CONTACT: KEVIN SHERIDAN **TITLE:** ATTORNEY
ADDRESS: 24 HOPE ST
HOBOKEN, NJ
PHONE: 201-659-2233 **COUNTY:** HUDSON

CALLER NAME: KEVIN SHERIDAN **TITLE:** V PONTE and SONS INC
ADDRESS: 111 PATTERSON AVE
HOBOKEN, NJ
PHONE: 201-659-2233

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: JERSEY CITY **TITLE:** CAPT.JOHNSON
PHONE: 201-547-4271
DATE: 4/11/1995 **TIME:** 1720

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:** FAXED,MAILED
DATE: 4/11/1995 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 871 **DIST/DIR:** 0.17 NW **ELEVATION:** 12 **MAP ID:** 62

NAME: V PONTE and SONS INC
ADDRESS: 24 HOPE ST
JERSEY CITY NJ 07307
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 95-4-11-1712-03
ID2:
STATUS: U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 870 **DIST/DIR:** 0.17 NW **ELEVATION:** 12 **MAP ID:** 62

NAME: V PONTE and SONS
ADDRESS: 2 HOPE ST
JERSEY CITY NJ 07307
CONTACT:
SOURCE: NJDEP

REV: 6/30/01
ID1: 01-02-26-1215-38
ID2:
STATUS: UNDERGROUND STORAGE TANK
PHONE:

INCIDENT DATE: 2/23/01 **RECEIVED DATE:** 2/26/01
INCIDENT TIME: 1201 **NOTIFICATION:** FACILITY

LOCATION TYPE: FACILITY

SUBSTANCE RELEASED: OIL DIESEL
AMOUNT RELEASED: 0 **UNITS:**
SPILL CONTAINED?: YES
IS SUBSTANCE CONSIDERED HAZARDOUS BY NJDEP?: Y
IS SUBSTANCE ON THE TOXIC CATASTROPHE PREVENTION ACT (TCPA) LIST? N

INCIDENT DESCRIPTION: UNDERGROUND STORAGE TANK
STATUS AT SCENE: REMOVAL OF 1/10000 GAL UST. REG 0007913. CLEAN UP IN PROGRESS.

MEDIA CONTAMINATED: LAND **RECEIVING WATER:**

RESPONSIBLE PARTY NAME: KNOWN
CONTACT: CHARLES C JACOBSON
ADDRESS: 1 ACKERMAN AVE
CLIFTON NJ
PHONE:

CALLER NAME: MARY KAY MORELLI
CALLER ADDRESS: 5 REGIN STREET
LIVINGSTON NJ

PHONE: 973-716-9010

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 13 **DIST/DIR:** 0.17 NW **ELEVATION:** 12 **MAP ID:** 62

NAME: V PONTE and SONS INC
ADDRESS: 2 HOPE ST
JERSEY CITY NJ 07307
HUDSON
CONTACT: FRANK PONTE
SOURCE: EPA

REV: 7/8/03
ID1: NJD098262264
ID2:
STATUS: TR
PHONE: 2129665420

DETAILS NOT AVAILABLE

STATE

SEARCH ID: 626 **DIST/DIR:** 0.17 NW **ELEVATION:** 12 **MAP ID:** 62

NAME: V PONTE and SONS INC
ADDRESS: 2 HOPE ST
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 000791
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

KNOWN CONTAMINATED SITES LIST 2006 DATA b0
PREFERRED ID: 000791
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 2/26/2001
REMEDIATION LEVEL: C1-Remediation does not require a formal design. The source of the contamination is known or has been identified. There is a potential for ground water contamination.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: None
DEED NOTICE DATE:
ENGINEERING CONTROLS: None
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: BSCM-Bureau of Southern Case Management (formerly BUST) (609) 292-8761

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

SWL

SEARCH ID: 676 **DIST/DIR:** 0.17 NW **ELEVATION:** **MAP ID:** 63

NAME: ALL AMERICAN RECYCLING CORP.
ADDRESS: 2 HOPE ST
JERSEY CITY NJ NJ 07307
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/27/04
ID1: 0906001334
ID2:
STATUS: INACTIVE
PHONE:

TYPE OF OPERATION: TRANS STATION
AUTHORIZED WASTES ACCEPTED: MUNICIPAL (HOUSEHOLD, COMMERCIAL AND INSTITUTIONAL), BULKY WASTE, NON-CHEMICAL INDUSTRIAL WASTE

MAILING ADDRESS: 275 WEST STREET
NEW YORK NY 10013

TYPE OF OPERATION: TRANS STATION
AUTHORIZED WASTES ACCEPTED: MUNICIPAL (HOUSEHOLD, COMMERCIAL AND INSTITUTIONAL), BULKY WASTE, NON-CHEMICAL INDUSTRIAL WASTE

MAILING ADDRESS: 275 WEST STREET
NEW YORK NY 10013

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 697 **DIST/DIR:** 0.17 NW **ELEVATION:** 12 **MAP ID:** 62

NAME: V PONTE and SONS INC
ADDRESS: 2 HOPE ST
JERSEY CITY NJ 07307
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0007913
ID2: 000791
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: KEVIN SHERIDAN
OWNER ORGANIZATION: V PONTE and SONS INC
OWNER ADDRESS: 2 HOPE ST
Jersey City NJ 07307

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-4
TANK NUMBER: 0004
TANK SIZE: 2000
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1957
TANK STATUS: Exempt
TANK STATUS DATE: 1/1/1957
TANK ID: TANK-4
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Other
PIPE MATERIAL: Other
TANK MONITORING: None
PIPE MONITORING: None

TANK INFORMATION
TANK ID: TANK-5
TANK NUMBER: 0005
TANK SIZE: 10000
TANK CONTENTS: Medium Diesel Fuel (No. 2-D)
INSTALL DATE: 1/1/1990
TANK STATUS: Removed
TANK STATUS DATE: 2/21/2001
TANK ID: TANK-5
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD:
TANK MATERIAL: CONVERSION (NON-NULLABLE)
PIPE MATERIAL: Fiberglass-reinforced plastic
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 689 **DIST/DIR:** 0.17 SE **ELEVATION:** 11 **MAP ID:** 64

NAME: HOBOKEN HAND CAR WASH
ADDRESS: 507 NEWARK ST
HOBOKEN CITY NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: G000012077
ID2: G000012077
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: ROB CAULFIELD
OWNER ORGANIZATION: FIELDS DEVELOPMENT
OWNER ADDRESS: 1 HENDERSON ST
Hoboken NJ 07303

TANK INFORMATION
FACILITY TYPE:

TANK INFORMATION
TANK ID: TANK-6
TANK NUMBER: 1
TANK SIZE: 2000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1944
TANK STATUS: Removed
TANK STATUS DATE: 11/16/2009
TANK ID: TANK-6
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 407 **DIST/DIR:** 0.18 NE **ELEVATION:** 20 **MAP ID:** 67

NAME: BROWNSTONE COMPANY 1
ADDRESS: 129 JACKSON ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000034949
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

STATE

SEARCH ID: 406 **DIST/DIR:** 0.18 NE **ELEVATION:** 20 **MAP ID:** 67

NAME: BROWNSTONE COMPANY 1
ADDRESS: 129 JACKSON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL800405912
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL800405912
SUBSECTION LABEL: SITES WITH CLOSED CASE(S) WITH RESTRICTIONS
COMU: 0905
STATUS: NO FURTHER ACTION FOR AN ENTIRE SITE
DATE: 8/11/00 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE: SOIL CONTAMINATION REMAINING
CONTACT: BUREAU OF FIELD OPERATIONS NORTHERN (973) 669-3960

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 943 **DIST/DIR:** 0.18 NE **ELEVATION:** 20 **MAP ID:** 67

NAME: BROWNSTONE COMPANY 1
ADDRESS: 129 MONROE ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 98-05-13-0048-37A
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 5/26/1998
CONTACT: Communities Llc
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

VCP

SEARCH ID: 942 **DIST/DIR:** 0.18 NE **ELEVATION:** 20 **MAP ID:** 67

NAME: BROWNSTONE COMMUNITIES
ADDRESS: 129 MONROE ST
HOBOKEN NJ
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 98-05-13-0048-37
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 6/15/2001
CONTACT: LLC
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 7 **DIST/DIR:** 0.18 NW **ELEVATION:** 11 **MAP ID:** 66

NAME: BASF CORP
ADDRESS: 15 NEW YORK AVE
JERSEY CITY NJ 07307
HUDSON
CONTACT: MICHAEL DHONDT
SOURCE: EPA

REV: 6/6/06
ID1: NJR000008326
ID2:
STATUS: VGN
PHONE: 9734263012

SITE INFORMATION

CONTACT INFORMATION: MICHAEL DHONDT
3000 CONTINENTAL DR N
MOUNT OLIVE NJ 078281234

PHONE: 9734263012

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA PERMIT: *N - NO*
GPRA POST CLOSURE: *N - NO*
GPRA CA: *N - NO*
GPRA COMPLIANCE MONITORING and ENFORCEMENT: *N - NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO

SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC: N - NO
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZA

NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

2-Propyn-1-ol (OR) Propargyl alcohol
Ignitable waste

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 283 **DIST/DIR:** 0.19 NE **ELEVATION:** 13 **MAP ID:** 69

NAME: 72 TO 84 JEFFERSON STREET
ADDRESS: 72 JEFFERSON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000029545
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0

JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

STATE

SEARCH ID: 282 **DIST/DIR:** 0.19 NE **ELEVATION:** 12 **MAP ID:** 68

NAME: 72 TO 84 JEFFERSON STREET
ADDRESS: 72 JEFFERSON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL800244659
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL800244659
SUBSECTION LABEL: SITES WITH CLOSED CASE(S) WITH RESTRICTIONS
COMU: 0905
STATUS: NO FURTHER ACTION FOR AN ENTIRE SITE
DATE: 2/11/98 0:00:00
CLASSIFICATION EXCEPTION AREA: CEA
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF FIELD OPERATIONS NORTHERN (973) 669-3960

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 930 **DIST/DIR:** 0.19 NE **ELEVATION:** 12 **MAP ID:** 68

NAME: 72 TO 84 JEFFERSON STREET
ADDRESS: 72 JEFFERSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 96-08-23-1510-40
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 10/2/1996
CONTACT: D amelio
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

STATE

SEARCH ID: 453 **DIST/DIR:** 0.19 NW **ELEVATION:** 12 **MAP ID:** 70

NAME: FRAME COMPANY
ADDRESS: 33 HOPE ST
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000012868
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 532 **DIST/DIR:** 0.19 SE **ELEVATION:** 10 **MAP ID:** 71

NAME: MILLENNIUM TOWERS LLC
ADDRESS: 677 GROVE ST
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 329546
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

VCP

SEARCH ID: 956 **DIST/DIR:** 0.19 SE **ELEVATION:** 10 **MAP ID:** 71

NAME: MILLENNIUM TOWERS LLC
ADDRESS: 677 GROVE ST
JERSEY CITY NJ 07310
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/15/10
ID1: 06-12-02-0549-11
ID2: 329546
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 12/14/2006
CONTACT: LUCARELLI
CONTACT ORGANIZATION: TOWERS LLC
CONTACT ADDRESS: 534 BROADWAY AVE
Bayonne,NJ 07002

In April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 96 **DIST/DIR:** 0.20 NE **ELEVATION:** 21 **MAP ID:** 73

NAME: 220 JACKSON STREET
ADDRESS: 220 JACKSON ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 130430
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0

JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

KNOWN CONTAMINATED SITES LIST 2006 DATA b0

PREFERRED ID: 130430
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 10/21/2002
REMEDIATION LEVEL: C1-Remediation does not require a formal design. The source of the contamination is known or has been identified. There is a potential for ground water contamination.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: None
DEED NOTICE DATE:
ENGINEERING CONTROLS: None
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: BSCM-Bureau of Southern Case Management (formerly BUST) (609) 292-8761

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 680 **DIST/DIR:** 0.20 NE **ELEVATION:** 21 **MAP ID:** 73

NAME: 220 JACKSON STREET
ADDRESS: 220 JACKSON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 130430
ID2: 130430
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: ERNEST NADEAU
OWNER ORGANIZATION: PLC DEVELOPERS
OWNER ADDRESS: 201 BROADWAY
Bayonne NJ 07002

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: 0001
TANK SIZE: 550
TANK CONTENTS: Waste Oil
INSTALL DATE: 1/1/1944
TANK STATUS: Removed
TANK STATUS DATE: 1/21/2002
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION:
SPILL CONTAINMENT:
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

CERCLIS

SEARCH ID: 2 **DIST/DIR:** 0.20 SE **ELEVATION:** 11 **MAP ID:** 72

NAME: CONRAIL-YARD
ADDRESS: 688 HENDERSON ST
JERSEY CITY / HOBOKE NJ 07030
HUDSON
CONTACT:
SOURCE: EPA

REV: 7/26/11
ID1: NJD980770036
ID2: 0200870
STATUS: NOT PROPOSED
PHONE:

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
discovery	State, Fund Financed		4/10/1984
preliminary assessment Low priority for further assessment	State, Fund Financed	5/1/1985	5/31/1985
site inspection Higher priority for further assessment	EPA Fund-Financed		12/26/1991

DESCRIPTION:

STATE

SEARCH ID: 421 **DIST/DIR:** 0.20 SE **ELEVATION:** 11 **MAP ID:** 72

NAME: CONRAIL YARD
ADDRESS: 688 HENDERSON ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJD980770036
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJD980770036
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0906
STATUS: ACTIVE
DATE: 8/31/93 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF CASE MANAGEMENT (609) 633-1455

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 740 **DIST/DIR:** 0.21 NE **ELEVATION:** 22 **MAP ID:** 77

NAME: CUNNINGHAM MARINE
ADDRESS: 200 JACKSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 4/3/01
ID1: 00-07-14-1555-21
ID2:
STATUS: UNDERGROUND STORAGE TANK
PHONE:

INCIDENT DATE:
INCIDENT TIME: 0915
RECEIVED DATE: 7/14/00
NOTIFICATION: OTHER

LOCATION TYPE: FACILITY

SUBSTANCE RELEASED: OIL HEATING 2
AMOUNT RELEASED: 0 **UNITS:** UNKNOWN
SPILL CONTAINED?: YES
IS SUBSTANCE CONSIDERED HAZARDOUS BY NJDEP?: Y
IS SUBSTANCE ON THE TOXIC CATASTROPHE PREVENTION ACT (TCPA) LIST? N

INCIDENT DESCRIPTION: UNDERGROUND STORAGE TANK
STATUS AT SCENE: 1/550 GAL UST ABANDONED IN PLACE. CLEAN UP PENDING SOIL SAMPLE REPORT.

MEDIA CONTAMINATED: LAND **RECEIVING WATER:**

RESPONSIBLE PARTY NAME: KNOWN
CONTACT: ROB CUNNINGHAM
ADDRESS: 201 HARRISON ST
HOBOKEN NJ
PHONE: 201-792-0500

CALLER NAME: RYAN SCHMEAR
CALLER ADDRESS: 117 CANAL RD
SOUTH BOUND BROOK NJ

PHONE: 732-356-3400

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 736 **DIST/DIR:** 0.21 NE **ELEVATION:** 20 **MAP ID:** 74

NAME: CONNORS ELEMENTARY SCHOOL
ADDRESS: 2ND ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 93-12-17-1122-09
ID2:
STATUS: L.U.S.T.
PHONE:

INCIDENT DATE: 12/17/1993 **RECEIVED DATE:** 12/17/1993
INCIDENT TIME: **OPERATOR:** JOYCE

LOCATION TYPE: SNSTVE POP

NATURE OF INCIDENT: FACILITY **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: OIL FUEL 2
CAS No.
AMOUNT RELEASED: UNK **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: L.U.S.T.
STATUS AT SCENE:
12/1/93 REMOVAL OF 1/10,000 GAL LUST. TMS C-934106, UST 0250805. CLEANUP IN PROGRESS.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: HOBOKEN BOARD OF ED **STATUS:** KNOWN
CONTACT: ANTHONY CURKO **TITLE:** BRD.SECY.
ADDRESS: 2ND ST
HOBOKEN, NJ
PHONE: 201-420-2183 **COUNTY:** HUDSON

CALLER NAME: NICHOLE STAMM **TITLE:** KARL and ASSOCIATES
ADDRESS:
,
PHONE: 215-777-5719

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: HOBOKEN CITY **TITLE:** DISP. MICALE
PHONE: 201-420-2004
DATE: 12/17/1993 **TIME:** 1134

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-SA **PHONE:** FAXED,MAILED
DATE: 12/17/1993 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 736 **DIST/DIR:** 0.21 NE **ELEVATION:** 20 **MAP ID:** 74

NAME: CONNORS ELEMENTARY SCHOOL
ADDRESS: 2ND ST
HOBOKEN NJ 07030
Hudson
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 93-12-17-1122-09
ID2:
STATUS: L.U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 737 **DIST/DIR:** 0.21 NE **ELEVATION:** 20 **MAP ID:** 74

NAME: CONNORS ELEMENTARY SCHOOL
ADDRESS: 2ND ST
HOBOKEN NJ 07030
HUD
CONTACT:
SOURCE: NJDEP

REV: 7/11/02
ID1: LU-93-12-17-1122-09
ID2:
STATUS:
PHONE:

SITE INFORMATION

STATUS: NO FURTHER ACTION - AREA OF CONCERN
NFA DATE: 4/14/1997 0:00:00
UST NUMBER: 0250805
TMS NUMBER: C93-4106
REMEDIAL LEVEL: ONE AREA OF CONCERN WITH ONE MEDIA OF CONCERN
LEAD AGENCY: BUREAU OF FIELD OPERATIONS - INITIAL NOTICE
CASE MANAGER: ROBERT POSEY
CM PHONE: (609) 777-1911
CEA:
DATE CEA LIFTED:
DEAD NOTICE:

STATE

SEARCH ID: 419 **DIST/DIR:** 0.21 NE **ELEVATION:** 20 **MAP ID:** 74

NAME: CONNORS ELEMENTARY SCHOOL
ADDRESS: 2ND ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 09-01-97
ID1: NJL800027013
ID2:
STATUS:
PHONE:

CASE ID: 0250805 **STATUS:** NFA-A **STATUS DATE:** 04/14/1997
CONTACT: BFO-IN **CEA/DER:**

FOR MORE INFORMATION REGARDING THIS SITE PLEASE CONTACT THE NJDEP SITE INFORMATION PROGRAM AT 1-800-253-5647

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

STATE

SEARCH ID: 423 **DIST/DIR:** 0.21 NE **ELEVATION:** 20 **MAP ID:** 75

NAME: CUNNINGHAM MARINE HYDRAULICS CO INC
ADDRESS: 201 HARRISON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000042141
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

UST

SEARCH ID: 683 **DIST/DIR:** 0.21 NE **ELEVATION:** 20 **MAP ID:** 74

NAME: CONNORS SCHOOL
ADDRESS: 2ND ST and MONROE ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0250805
ID2: 025080
STATUS: INACTIVE
PHONE:

OWNER INFORMATION

OWNER NAME:	ANTHONY CURKO
OWNER ORGANIZATION:	HOBOKEN BD OF ED
OWNER ADDRESS:	1115 CLINTON ST Hoboken NJ 07030

TANK INFORMATION

FACILITY TYPE:	Charitable/Public School

TANK INFORMATION

TANK ID:	TANK-1
TANK NUMBER:	0002
TANK SIZE:	10000
TANK CONTENTS:	Heating Oil (No. 4)
INSTALL DATE:	1/1/1984
TANK STATUS:	Removed
TANK STATUS DATE:	12/7/1993
TANK ID:	TANK-1
COMPLIANCE MONITORING:	No
OVERFILL PROTETCION:	No
SPILL CONTAINMENT:	No
TANK WELLHEAD:	
TANK MATERIAL:	Cathodically protected steel
PIPE MATERIAL:	Bare steel
TANK MONITORING:	None
PIPE MONITORING:	None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 521 **DIST/DIR:** 0.21 SW **ELEVATION:** 10 **MAP ID:** 76

NAME: LIFSCHULTE TRUCKING
ADDRESS: 850 JERSEY AVE
JERSEY CITY NJ 07310
Hudson
CONTACT:
SOURCE: NJDEP

REV: 09-01-97
ID1: NJL000068932
ID2:
STATUS:
PHONE:

CASE ID: 9305051308 **STATUS:** ACTIVE **STATUS DATE:** 04/08/1997
CONTACT: BFO-N **CEA/DER:**

FOR MORE INFORMATION REGARDING THIS SITE PLEASE CONTACT THE NJDEP SITE INFORMATION PROGRAM AT 1-800-253-5647

STATE

SEARCH ID: 522 **DIST/DIR:** 0.21 SW **ELEVATION:** 10 **MAP ID:** 76

NAME: LIFSCHULTZ TRUCKING
ADDRESS: 850 JERSEY AVE
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000011455
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 949 **DIST/DIR:** 0.21 SW **ELEVATION:** 10 **MAP ID:** 76

NAME: FORMER LIFSCHULTZ FAST FREIGHT
ADDRESS: 850 JERSEY AVE
JERSEY CITY NJ 07310
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 93-05-05-1308-12A
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 4/7/1997
CONTACT: 19th Street Llc
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

VCP

SEARCH ID: 950 **DIST/DIR:** 0.21 SW **ELEVATION:** 10 **MAP ID:** 76

NAME: FORMER LIFSCHULTZ TRUCKING
ADDRESS: 850 JERSEY AVE
JERSEY CITY NJ 07702
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 93-05-05-1308-12
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 7/7/2000
CONTACT: Diversified LLC
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 812 **DIST/DIR:** 0.22 NE **ELEVATION:** 23 **MAP ID:** 83

NAME: RESID
ADDRESS: 222 JACKSON ST
HOBOKEN CITY NJ

CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 08-10-17-1058-45
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 10/17/2008
RECEIVED DATE: 10/17/2008
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL FUEL 2
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: LOMBARDO
REPORTER RECEIVED DATE: 10/17/2008

SOURCE INFORMATION

CONTACT: JOOHYNN PYUNE
222 JACKSON ST
HOBOKEN CITY NJ

REMOVAL OF 1-550 UST

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 739 **DIST/DIR:** 0.22 NE **ELEVATION:** 21 **MAP ID:** 82

NAME: CUNNINGHAM MARINE
ADDRESS: 201 HARRISON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 03-07-17-1058-00
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 7/15/2003
RECEIVED DATE: 7/17/2003
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: COMMERCIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL HEATING 2
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: ENV TECHNOLOGIES GROUP
REPORTER RECEIVED DATE: 7/17/2003

SOURCE INFORMATION

CUNNINGHAM MARINE
201-223 HARRISON ST
HOBOKEN CITY NJ
CONTACT: ROBERT CUNNINGHAM

SUSPECT SOIL CONTAMINATION DURING REMOVAL OF 1/2000 GAL UST. SOIL SAMPLES TAKEN. CLEANUP PENDING.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 98 **DIST/DIR:** 0.22 NE **ELEVATION:** 23 **MAP ID:** 78

NAME: 222 JACKSON STREET
ADDRESS: 222 JACKSON ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 508951
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: Yes

STATE

SEARCH ID: 484 **DIST/DIR:** 0.22 NE **ELEVATION:** 14 **MAP ID:** 80

NAME: HOBOKEN REC CENTER PLAYGROUND
ADDRESS: 109 JEFFERSON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 543130
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 693 **DIST/DIR:** 0.22 NE **ELEVATION:** 23 **MAP ID:** 81

NAME: MONROE GARDENS
ADDRESS: 221 JACKSON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0175061
ID2: 017506
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: ROBERT CLOUD
OWNER ORGANIZATION: HOBOKEN HOUSING AUTHORITY
OWNER ADDRESS: 400 HARRISON ST
Hoboken NJ 07030

TANK INFORMATION
FACILITY TYPE: Residential

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: 0001
TANK SIZE: 10000
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1976
TANK STATUS: Removed
TANK STATUS DATE: 5/21/1996
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD:
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: None
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 420 **DIST/DIR:** 0.22 SE **ELEVATION:** 10 **MAP ID:** 79

NAME: CONRAIL YARD
ADDRESS: 688 LUIS MUNOZ
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000005103
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0

JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

KNOWN CONTAMINATED SITES LIST 2006 DATA b0

PREFERRED ID: G000005103
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 8/31/1993
REMEDIATION LEVEL: C3-A multi-phased remediation action. Where the source of the contamination is either unknown or there is an uncontrolled discharge to Soil and/or ground water.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: None
DEED NOTICE DATE:
ENGINEERING CONTROLS: None
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: BCM-Bureau of Case Management (609) 633-1455

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

STATE

SEARCH ID: 470 **DIST/DIR:** 0.22 SE **ELEVATION:** 10 **MAP ID:** 79

NAME: HENDERSON YARDS
ADDRESS: 688 LUIS MUNOZ MARIN BLVD
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000023492
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 723 **DIST/DIR:** 0.23 NE **ELEVATION:** 14 **MAP ID:** 85

NAME: BOYS and GIRLS CLUB
ADDRESS: 123 JEFFERSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/00
ID1: 00-02-24-1310-28
ID2:
STATUS: UNDERGROUND STORAGE TANK
PHONE:

INCIDENT DATE: 2/24/00 **RECEIVED DATE:** 2/24/00
INCIDENT TIME: **NOTIFICATION:** OTHER

LOCATION TYPE: FACILITY

INCIDENT DATE: 2/24/00 **RECEIVED DATE:** 2/24/00
INCIDENT TIME: **NOTIFICATION:** OTHER

LOCATION TYPE: FACILITY

INCIDENT DATE: 2/24/00 **RECEIVED DATE:** 2/24/00
INCIDENT TIME: **NOTIFICATION:** OTHER

LOCATION TYPE: FACILITY

INCIDENT DATE: 2/24/00 **RECEIVED DATE:** 2/24/00
INCIDENT TIME: **NOTIFICATION:** OTHER

LOCATION TYPE: FACILITY

SUBSTANCE RELEASED: OIL FUEL 2
AMOUNT RELEASED: 0.00 **UNITS:** UNKNOWN
SPILL CONTAINED?: YES
IS SUBSTANCE CONSIDERED HAZARDOUS BY NJDEP?: Y
IS SUBSTANCE ON THE TOXIC CATASTROPHE PREVENTION ACT (TCPA) LIST? N

SUBSTANCE RELEASED: OIL FUEL 2
AMOUNT RELEASED: 0.00 **UNITS:** UNKNOWN
SPILL CONTAINED?: YES
IS SUBSTANCE CONSIDERED HAZARDOUS BY NJDEP?: Y
IS SUBSTANCE ON THE TOXIC CATASTROPHE PREVENTION ACT (TCPA) LIST? N

SUBSTANCE RELEASED: OIL FUEL 2
AMOUNT RELEASED: 0.00 **UNITS:** UNKNOWN
SPILL CONTAINED?: YES
IS SUBSTANCE CONSIDERED HAZARDOUS BY NJDEP?: Y
IS SUBSTANCE ON THE TOXIC CATASTROPHE PREVENTION ACT (TCPA) LIST? N

SUBSTANCE RELEASED: OIL FUEL 2
AMOUNT RELEASED: 0.00 **UNITS:** UNKNOWN
SPILL CONTAINED?: YES
IS SUBSTANCE CONSIDERED HAZARDOUS BY NJDEP?: Y
IS SUBSTANCE ON THE TOXIC CATASTROPHE PREVENTION ACT (TCPA) LIST? N

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 723 **DIST/DIR:** 0.23 NE **ELEVATION:** 14 **MAP ID:** 85

NAME: BOYS and GIRLS CLUB
ADDRESS: 123 JEFFERSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/00
ID1: 00-02-24-1310-28
ID2:
STATUS: UNDERGROUND STORAGE TANK
PHONE:

INCIDENT DESCRIPTION: UNDERGROUND STORAGE TANK
STATUS AT SCENE: REMOVAL OF 1-4000 GALLON TANK.UST 0225830.TMS N99-1430

INCIDENT DESCRIPTION: UNDERGROUND STORAGE TANK
STATUS AT SCENE: REMOVAL OF 1-4000 GALLON TANK.UST 0225830.TMS N99-1430

INCIDENT DESCRIPTION: UNDERGROUND STORAGE TANK
STATUS AT SCENE: REMOVAL OF 1-4000 GALLON TANK.UST 0225830.TMS N99-1430

INCIDENT DESCRIPTION: UNDERGROUND STORAGE TANK
STATUS AT SCENE: REMOVAL OF 1-4000 GALLON TANK.UST 0225830.TMS N99-1430

MEDIA CONTAMINATED: LAND **RECEIVING WATER:**

RESPONSIBLE PARTY NAME: BOYS and GIRLS CLUB
CONTACT:
ADDRESS: 123 JEFFERSON ST
HOBOKEN NJ
PHONE:

CALLER NAME: STEPHANY MUNSON
CALLER ADDRESS: 1551 GRENWOOD LK
HEWITT NJ

PHONE: 973-728-8555

MEDIA CONTAMINATED: LAND **RECEIVING WATER:**

RESPONSIBLE PARTY NAME: BOYS and GIRLS CLUB
CONTACT:
ADDRESS: 123 JEFFERSON ST
HOBOKEN NJ
PHONE:

CALLER NAME: STEPHANY MUNSON
CALLER ADDRESS: 1551 GRENWOOD LK
HEWITT NJ

PHONE: 973-728-8555

MEDIA CONTAMINATED: LAND **RECEIVING WATER:**

RESPONSIBLE PARTY NAME: BOYS and GIRLS CLUB
CONTACT:
ADDRESS: 123 JEFFERSON ST
HOBOKEN NJ
PHONE:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 723 **DIST/DIR:** 0.23 NE **ELEVATION:** 14 **MAP ID:** 85

NAME: BOYS and GIRLS CLUB
ADDRESS: 123 JEFFERSON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/00
ID1: 00-02-24-1310-28
ID2:
STATUS: UNDERGROUND STORAGE TANK
PHONE:

CALLER NAME: STEPHANY MUNSON
CALLER ADDRESS: 1551 GRENWOOD LK
HEWITT NJ

PHONE: 973-728-8555

MEDIA CONTAMINATED: LAND **RECEIVING WATER:**

RESPONSIBLE PARTY NAME: BOYS and GIRLS CLUB
CONTACT:
ADDRESS: 123 JEFFERSON ST
HOBOKEN NJ
PHONE:

CALLER NAME: STEPHANY MUNSON
CALLER ADDRESS: 1551 GRENWOOD LK
HEWITT NJ

PHONE: 973-728-8555

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 724 **DIST/DIR:** 0.23 NE **ELEVATION:** 14 **MAP ID:** 85

NAME: BOYS and GIRLS CLUB OF HOBOKEN
ADDRESS: 123 JEFFERSON AVE
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/11/02
ID1: LU-00-02-24-1310-28
ID2:
STATUS:
PHONE:

SITE INFORMATION

STATUS: NO FURTHER ACTION - AREA OF CONCERN
NFA DATE: 11/30/2001 0:00:00
UST NUMBER: 0225830
TMS NUMBER: N99-1430
REMEDIAL LEVEL: CONFIRMED SOIL AND GROUND WATER CONTAMINATION
LEAD AGENCY: BUREAU OF UNDERGROUND STORAGE TANKS
CASE MANAGER: DAVID HARPER
CM PHONE: (609) 633-1464
CEA: N
DATE CEA LIFTED:
DEAD NOTICE: N

STATE

SEARCH ID: 403 **DIST/DIR:** 0.23 NE **ELEVATION:** 14 **MAP ID:** 85

NAME: BOYS and GIRLS CLUB OF HOBOKEN
ADDRESS: 123 JEFFERSON ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 022583
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

UST

SEARCH ID: 682 **DIST/DIR:** 0.23 NE **ELEVATION:** 14 **MAP ID:** 85

NAME: BOYS and GIRLS CLUB OF HOBOKEN
ADDRESS: 123 JEFFERSON ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0225830
ID2: 022583
STATUS: INACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: GARY GREENBERG
OWNER ORGANIZATION: BOY and GIRLS CLUBS OF HUDSON CO
OWNER ADDRESS: 1 CANAL ST
Jersey City NJ 07302

TANK INFORMATION
FACILITY TYPE: Charitable/Public School

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: 0001
TANK SIZE: 4000
TANK CONTENTS: Heating Oil (No. 2)
INSTALL DATE: 1/1/1985
TANK STATUS: Removed
TANK STATUS DATE: 2/24/2000
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD: No
TANK MATERIAL: Cathodically protected steel
PIPE MATERIAL: Cathodically protected steel
TANK MONITORING: Manual Tank Gauging
PIPE MONITORING: None

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

RCRAGN

SEARCH ID: 14 **DIST/DIR:** 0.23 SE **ELEVATION:** 10 **MAP ID:** 84

NAME: VERIZON - JERSEY CITY GARAGE
ADDRESS: 660 GROVE ST
JERSEY CITY NJ 07302
HUDSON
CONTACT: STEVEN BALDISSEROTTO
SOURCE: EPA

REV: 6/6/06
ID1: NJR000040402
ID2:
STATUS: VGN
PHONE: 9732669311

SITE INFORMATION

CONTACT INFORMATION: STEVEN BALDISSEROTTO
650 PARK AVE
EAST ORANGE NJ 070171503

PHONE: 9732669311

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA PERMIT: *N - NO*
GPRA POST CLOSURE: *N - NO*
GPRA CA: *N - NO*
GPRA COMPLIANCE MONITORING and ENFORCEMENT: *N - NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO

SIGNIFICANT NON-COMPLIANCE(SNC): N - NO
BEGINNING OF THE YEAR SNC: N - NO
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: CEG - CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS: GENERATES LESS THAN 100 KG/MONTH OF HAZA
NAIC INFORMATION

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

Ignitable waste
Lead
Corrosive waste

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 809 **DIST/DIR:** 0.24 NE **ELEVATION:** 20 **MAP ID:** 86

NAME: RESID
ADDRESS: 213 MONROE ST
HOBOKEN CITY NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 04-08-17-1142-42
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 7/28/2004
RECEIVED DATE: 8/17/2004
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL FUEL 2
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: METRO HEATING
REPORTER RECEIVED DATE: 8/17/2004

SOURCE INFORMATION

CONTACT: JOE FLORIO
213 MONROE ST
HOBOKEN CITY NJ 07030

1-1000 GALLON UST. SOIL CONTAMINATION FOUND

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 725 **DIST/DIR:** 0.24 NE **ELEVATION:** 15 **MAP ID:** 93

NAME: BUILDING AT
ADDRESS: 231 MADISON ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 09/30/99
ID1: 99-08-04-1356-39
ID2:
STATUS: UNDERGROUND STORAGE TANK
PHONE:

INCIDENT DATE: 8/3/99 0:00:00 **RECEIVED DATE:** 8/4/99 0:00:00
INCIDENT TIME: 1400 **OPERATOR:** KIM

LOCATION TYPE: Residential

SUBSTANCE IDENTITY: Y **SUBSTANCE STATE:** Liquid
SUBSTANCES: Known
AMOUNT RELEASED: 0.00 **UNITS:** UNKNOWN
HAZARDOUS MATERIAL: N **CONTAINED:** Yes

INCIDENT DESCRIPTION: Underground Storage Tank

INCIDENT DESCRIPTION: Soil Contamination

INCIDENT STATUS AT SCENE: DURING DRAINING OF 1/500 GAL UST HOLES WERE FOUND. TANK SCHEDULED FOR REMOVAL.
CONTAMINATION: Land **RECEIVING WATER:**

A310 LETTER: Yes **HAZ. WASTE INVOLVED:** No
INJURIES: No **PUBLIC EXPOSURE:** No
FACILITY EVACUATION: No **POLICE AT SCENE:** No
PUBLIC EVACUATION: No **FIREMEN AT SCENE:** No
ASST. REQUESTED: No **ROAD CLOSED:** No

SPILLER NAME: PROPERTY AT **STATUS:** Known
CONTACT: BOB TATAM **TITLE:** OWNER
ADDRESS: PO BOX 569
HOBOKEN NJ 07030

PHONE: 201-755-8835

CALLER NAME: BOB TATAM **TITLE:** CITIZEN
ADDRESS: PO BOX 569
HOBOKEN NJ

PHONE: 201-755-8835

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 810 **DIST/DIR:** 0.24 NE **ELEVATION:** 20 **MAP ID:** 86

NAME: RESID
ADDRESS: 213 MONROE ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 02-10-31-1445-04
ID2:
STATUS: CONTINUOUS
PHONE:

SITE INFORMATION

INCIDENT DATE: 10/31/2002
RECEIVED DATE: 10/31/2002
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL HEATING 2
SUBSTANCE ID: KNOWN
SUBSTANCE STATE:
QUANTITY:
UNITS:
TYPE:
HAZMAT: YES
TCPA: N
CONTAINED:

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: OTHER
REPORTER ORG: HEATING OIL PARTNERS
REPORTER RECEIVED DATE: 10/31/2002

SOURCE INFORMATION

CONTACT: JOE FLORIO
213 MONROE ST
HOBOKEN CITY NJ

FAILED TANK TEST.SOIL SAMPLES BEING TAKEN

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 92 **DIST/DIR:** 0.24 NE **ELEVATION:** 20 **MAP ID:** 86

NAME: 213 MONROE STREET
ADDRESS: 213 MONROE ST
HOBOKEN CITY NJ
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 252029
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0

JUNE 2011 STATUS: CLOSED
HOME OWNER: Yes

KNOWN CONTAMINATED SITES LIST 2006 DATA b0

PREFERRED ID: 252029
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 4/21/2005
REMEDIATION LEVEL: C1-Remediation does not require a formal design. The source of the contamination is known or has been identified. There is a potential for ground water contamination.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: None
DEED NOTICE DATE:
ENGINEERING CONTROLS: None
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: BFO-N-Bureau of Field Operations Northern (973) 631-6401

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 313 **DIST/DIR:** 0.24 NE **ELEVATION:** 13 **MAP ID:** 89

NAME: 78 TO 88 ADAMS STREET
ADDRESS: 78 ADAMS ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000029544
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0

JUNE 2011 STATUS: CLOSED
HOME OWNER: No

STATE

SEARCH ID: 312 **DIST/DIR:** 0.24 NE **ELEVATION:** 13 **MAP ID:** 88

NAME: 78 TO 88 ADAMS STREET
ADDRESS: 78 ADAMS ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL800244642
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL800244642
SUBSECTION LABEL: SITES WITH CLOSED CASE(S) WITH RESTRICTIONS
COMU: 0905
STATUS: NO FURTHER ACTION FOR A PARTIAL AREA OF A SITE
DATE: 10/27/98 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE: SOIL CONTAMINATION REMAINING
CONTACT: BUREAU OF FIELD OPERATIONS NORTHERN (973) 669-3960

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 911 **DIST/DIR:** 0.24 NE **ELEVATION:** 20 **MAP ID:** 86

NAME: 213 MONROE STREET
ADDRESS: 213 MONROE ST
HOBOKEN NJ 07096
CONTACT:
SOURCE: NJDEP

REV: 08/01/07
ID1: 04-08-17-1142-42
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 4/21/2005
CONTACT: /o Perry Florio Esq
In April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

VCP

SEARCH ID: 932 **DIST/DIR:** 0.24 NE **ELEVATION:** 13 **MAP ID:** 88

NAME: 78 TO 88 ADAMS STREET
ADDRESS: 78 ADAMS ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 96-08-23-1513-39
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 10/2/1996
CONTACT: D amelio
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 712 **DIST/DIR:** 0.24 NW **ELEVATION:** 48 **MAP ID:** 92

NAME: AREA OF
ADDRESS: 122 OGDEN AVE
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 02-07-24-1935-33
ID2:
STATUS: UNDETERMINED
PHONE:

SITE INFORMATION

INCIDENT DATE: 7/24/2002
RECEIVED DATE: 7/24/2002
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL FUEL
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY:
UNITS:
TYPE:
HAZMAT: YES
TCPA: N
CONTAINED: NO

ROAD CLOSURE: NO
DEP REQUESTED: YES
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: CITIZEN COMPLAINT
REPORTER ORG:
REPORTER RECEIVED DATE: 7/24/2002

SOURCE INFORMATION

OWNER OF
122-124 OGDEN AVE
JERSEY CITY NJ
CONTACT:

UST REMOVED TODAY. ODORS COMING FROM EXCAVATION. SUSPECT SOIL CONTAMINATION.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 717 **DIST/DIR:** 0.24 NW **ELEVATION:** 83 **MAP ID:** 87

NAME: AT
ADDRESS: 220 OGDEN AVE
JERSEY CITY NJ 07303
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 04-12-15-1231-20
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 12/10/2004
RECEIVED DATE: 12/15/2004
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL HEATING 2
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY: 0
UNITS: UNKNOWN
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: FACILITY REP.
REPORTER ORG: PETRO HANDLING CO.
REPORTER RECEIVED DATE: 12/15/2004

SOURCE INFORMATION

CONTACT: VALERIE REA
220 OGDEN AVE
JERSEY CITY NJ 07303

1/550 GAL UST REMOVED AND CLEAN UP IS IN PROGRESS.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 97 **DIST/DIR:** 0.24 NW **ELEVATION:** 83 **MAP ID:** 87

NAME: 220 OGDEN AVENUE
ADDRESS: 220 OGDEN AVE
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 245159
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: Yes

STATE

SEARCH ID: 467 **DIST/DIR:** 0.24 NW **ELEVATION:** 60 **MAP ID:** 90

NAME: HARBORVIEW HEALTH CARE CENTER
ADDRESS: 178 OGDEN AVE
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000033413
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 913 **DIST/DIR:** 0.24 NW **ELEVATION:** 83 **MAP ID:** 87

NAME: 220 OGDEN AVENUE
ADDRESS: 220 OGDEN AVE
JERSEY CITY NJ 07307
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 04-12-15-1231-20
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 1/11/2005
CONTACT:
in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

STATE

SEARCH ID: 497 **DIST/DIR:** 0.24 SW **ELEVATION:** 10 **MAP ID:** 91

NAME: HUDSON COUNTY CHROMATE 94
ADDRESS: 18TH ST and JERSEY AVE
JERSEY CITY NJ 07310
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL000000943
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL000000943
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0906
STATUS: ACTIVE
DATE: 4/4/91 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF SITE MANAGEMENT (609) 984-2990

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 492 **DIST/DIR:** 0.24 SW **ELEVATION:** 10 **MAP ID:** 91

NAME: HUDSON CNTY CHROMATE 94
ADDRESS: 18TH ST and JERSEY AVE
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 244883
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0

JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

KNOWN CONTAMINATED SITES LIST 2006 DATA b0

PREFERRED ID: 244883
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 6/9/1993
REMEDIATION LEVEL: C2-Remediation requires a formal design. The source of the contamination is known OR the release has caused ground water contamination.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: None
DEED NOTICE DATE:
ENGINEERING CONTROLS: None
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: BDC-Bureau of Design and Construction (609) 984-2991

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 684 **DIST/DIR:** 0.24 SW **ELEVATION:** 10 **MAP ID:** 91

NAME: EXXON R/S 3-0593
ADDRESS: JERSEY CITY
JERSEY CITY NJ 07302
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 033791
ID2: 033791
STATUS: ACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: COMPLIANCE ANALYST
OWNER ORGANIZATION: EXXONMOBIL CORP
OWNER ADDRESS: 7300 W FRIENDLY AVE MS F 76
GREENSBORO NC 27420

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: E1
TANK SIZE: 15000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 4/23/1999
TANK STATUS: In-use
TANK STATUS DATE: 4/23/1999
TANK ID: TANK-1
COMPLIANCE MONITORING: Yes
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD: No
TANK MATERIAL: Fiberglass-reinforced plastic
PIPE MATERIAL: Fiberglass-reinforced plastic
TANK MONITORING: Tightness Test
PIPE MONITORING: Interstitial

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: E2
TANK SIZE: 15000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 4/23/1999
TANK STATUS: In-use
TANK STATUS DATE: 4/23/1999
TANK ID: TANK-2
COMPLIANCE MONITORING: Yes
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD: No
TANK MATERIAL: Fiberglass-reinforced plastic
PIPE MATERIAL: Fiberglass-reinforced plastic
TANK MONITORING: Tightness Test
PIPE MONITORING: Interstitial

TANK INFORMATION
TANK ID: TANK-3
TANK NUMBER: E3
TANK SIZE: 10000
TANK CONTENTS: Light Diesel Fuel (No. 1-D)
INSTALL DATE: 4/23/1999
TANK STATUS: In-use

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

UST

SEARCH ID: 684 **DIST/DIR:** 0.24 SW **ELEVATION:** 10 **MAP ID:** 91

NAME: EXXON R/S 3-0593
ADDRESS: JERSEY CITY
JERSEY CITY NJ 07302
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 033791
ID2: 033791
STATUS: ACTIVE
PHONE:

TANK STATUS DATE: 4/23/1999
TANK ID: TANK-3
COMPLIANCE MONITORING: Yes
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD: No
TANK MATERIAL: Fiberglass-reinforced plastic
PIPE MATERIAL: Fiberglass-reinforced plastic
TANK MONITORING: Tightness Test
PIPE MONITORING: Tightness Test

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

ENGCONTROL

SEARCH ID: 895 **DIST/DIR:** 0.25 NW **ELEVATION:** **MAP ID:** 98

NAME: PSEandG PALISADE AVE. SUBSTATION
ADDRESS: 322 TO 324 PALISADE AVE
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJ DEP

REV: 4/4/07
ID1: DNA-399
ID2: NJX000250258
STATUS: DEED NOTICE EXTENT
PHONE:

SITE INFORMATION

DEED NOTICE EXTENT DATA

KCSL NUMBER: NJX000250258
CASE IDENTIFIER: 95-02-02-1305-44
NJDEP LEAD UNIT: BUREAU OF CASE MANAGEMENT
DEED NOTICE APPROVED: JULY 09, 1997
DN PART OF FINAL REMEDY: YES
DEPTH OF CONTAM: 4.5 +
SCALE DIGITIZED:
DEED NOTICE AREA(acres): 0.388991
CAP TYPE: Cap=4 asphalt pavement
DURATION: INDETERM.

CONTAMINANTS
VOLATILE ORGANIC:
SEMI VOLATILE ORGANIC:
METALS: LEAD
PESTICIDES:
CARCINOGENIC PAH:
PCB:
RADIONUCLEIDE:
ASBESTOS:
TOT PETROLEUM HYDRO:
TENT ID COMPOUNDS:
HISTORIC FILL:

BENZO CONTAMINATION
[A] ANTHRACENE: YES
[A] PYRENE: YES
[B] FLOURENE: YES
[G,H,I] PERYLENE:
[K] FLOURANTHENE: YES

IDENO [1,2,3-cd] PYRENE: YES
DIBENZ [A,H] ANTHACENE: YES
CHRYSENE: YES
OTHER:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 758 **DIST/DIR:** 0.25 NW **ELEVATION:** 95 **MAP ID:** 96

NAME: HARBOR VIEW HEALTH CARE
ADDRESS: 178 OGDEN AVE
JERSEY CITY NJ 07307
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 97-11-19-1452-01
ID2:
STATUS: U.S.T.
PHONE:

INCIDENT DATE: 11/19/1997 **RECEIVED DATE:** 11/19/1997
INCIDENT TIME: **OPERATOR:** JIMH

LOCATION TYPE: SNSTVE POP

NATURE OF INCIDENT: OTHER **INCIDENT LOCATION:** FACILITY
SUBSTANCE IDENTITY: KNOWN **SUBSTANCE STATE:** LIQUID
SUBSTANCES:
SUBSTANCE NAME: DIESEL FUEL
CAS No.
AMOUNT RELEASED: UNKNOWN **VERIFICATION:**
SUBSTANCE CONTAINED: Y **TYPE OF SPILL:** TERMINATED

INCIDENT DESCRIPTION: U.S.T.
STATUS AT SCENE:
REMOVAL OF 1/550 TANK.
CONTAMINATION: LAND **RECEIVING WATER:**

A310 LETTER: Y **TCPA CHEMICAL:** N **HAZMAT:** Y
INJURIES: N **PUBLIC EXPOSURE:** N **FACILITY EVACUATION:** N
POLICE AT SCENE: N **PUBLIC EVACUATION:** N **FIREMEN AT SCENE:** N
ASST. REQUESTED: N

SPILLER NAME: HARBOR VIEW HEALTH C **STATUS:** KNOWN
CONTACT: **TITLE:**
ADDRESS: 178-198 OGDEN AVE
JERSEY CITY, NJ
PHONE: **COUNTY:** HUDSON

CALLER NAME: DAN SENIOR **TITLE:** TANK TITE
ADDRESS:
, NJ
PHONE: 973-728-8855

NJSP NAME: **TITLE:**
PHONE:
DATE: **TIME:**

MUNICIPAL: JERSEY CITY **TITLE:** CAPT. SERELL
PHONE: 201-547-4271
DATE: 11/19/1997 **TIME:** 1455

OTHER NAME: **TITLE:**
PHONE:
DATE: **TIME:**

NAME: **REFERRAL:** DRPSR
REGION: BFO-CAS **PHONE:**
DATE: 11/19/1997 **TIME:**
FAX/MAIL: B

NAME: **REFERRAL:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

LUST

SEARCH ID: 758 **DIST/DIR:** 0.25 NW **ELEVATION:** 95 **MAP ID:** 96

NAME: HARBOR VIEW HEALTH CARE
ADDRESS: 178 OGDEN AVE
JERSEY CITY NJ 07307
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01-25-98
ID1: 97-11-19-1452-01
ID2:
STATUS: U.S.T.
PHONE:

REGION:
DATE:
FAX/MAIL:

PHONE:
TIME:

NAME:
REGION:
DATE:
FAX/MAIL:

REFERRAL:
PHONE:
TIME:

COMMENTS:

DATE PRINTED:
DATE FAXED:

DATE UPDATED:
DATE A310:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 830 **DIST/DIR:** 0.25 NW **ELEVATION:** 50 **MAP ID:** 97

NAME: RESIDENCE
ADDRESS: 110 OGDEN AVE
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/11/11
ID1: 06-03-23-0927-27
ID2:
STATUS: TERMINATED
PHONE:

SITE INFORMATION

INCIDENT DATE: 3/20/2006
RECEIVED DATE: 3/23/2006
INCIDENT TYPE: UNDERGROUND STORAGE TANK
LOCATION TYPE: RESIDENTIAL
CATEGORY: OTHER

INCIDENT INFORMATION

SUBSTANCE: OIL HEATING 2
SUBSTANCE ID: KNOWN
SUBSTANCE STATE: LIQUID
QUANTITY: 0
UNITS: UNKNOWN
TYPE: UNKNOWN
HAZMAT: YES
TCPA: N
CONTAINED: YES

ROAD CLOSURE: NO
DEP REQUESTED: NO
POLICE AT SCENE: NO
FIREMEN AT SCECNE: NO
PUBLIC EXPOSURE: NO
FACILITY EVACUATED: NO
PUBLIC EVACUATION: NO
INJURIES: NO
CONFIDENTIAL:

REPORTER INFORMATION

REDACTED

REPORTER TYPE: CITIZEN COMPLAINT
REPORTER ORG: STEVE RICH ENV.
REPORTER RECEIVED DATE: 3/23/2006

SOURCE INFORMATION

CONTACT: BEATRICE BERNASCONI
100 MANHATTAN AVE APT 18-10
UNION CITY NJ 07087

REMOVAL AND CLEAN UP ARE IN PROGRESS ON A 1000 GAL UST WITH HOLES.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 746 **DIST/DIR:** 0.25 NW **ELEVATION:** 89 **MAP ID:** 94

NAME: EMC, MORTGAGE/STEVE CRIVELLO
ADDRESS: 250 OGDEN AVE
JERSEY CITY NJ 07307
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 4/3/01
ID1: 01-03-19-1545-46
ID2:
STATUS: UNDERGROUND STORAGE TANK
PHONE:

DETAILS NOT AVAILABLE

STATE

SEARCH ID: 116 **DIST/DIR:** 0.25 NW **ELEVATION:** 89 **MAP ID:** 94

NAME: 250 OGDEN AVENUE
ADDRESS: 250 OGDEN AVE
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: G000061909
ID2:
STATUS: CLOSED
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0
JUNE 2011 STATUS: CLOSED
HOME OWNER: No

KNOWN CONTAMINATED SITES LIST 2006 DATA b0
PREFERRED ID: G000061909
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 4/2/2001
REMEDIATION LEVEL: C2-Remediation requires a formal design. The source of the contamination is known OR the release has caused ground water contamination.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: None
DEED NOTICE DATE:
ENGINEERING CONTROLS: None
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: BFO-N-Bureau of Field Operations Northern (973) 631-6401

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

VCP

SEARCH ID: 903 **DIST/DIR:** 0.25 NW **ELEVATION:** 50 **MAP ID:** 97

NAME: 110 OGDEN AVENUE
ADDRESS: 110 OGDEN AVE
JERSEY CITY NJ 07307
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/15/10
ID1: 06-03-23-0927-27
ID2: 290457
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 6/15/2006
CONTACT: BENNASCONI
CONTACT ORGANIZATION:
CONTACT ADDRESS: 100 MANHATTAN AVE
Union City,NJ 07087

In April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

VCP

SEARCH ID: 918 **DIST/DIR:** 0.25 NW **ELEVATION:** 89 **MAP ID:** 94

NAME: 250 OGDEN AVENUE
ADDRESS: 250 OGDEN AVE
JERSEY CITY NJ 07090
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 01/01/06
ID1: 01-03-19-1545-46
ID2:
STATUS: VCP
PHONE:

VOLUNTARY CLEANUP PROGRAM MEMORANDUM OF AGREEMENT DATA

EXECUTION DATE: 4/4/2001
CONTACT:

in April 1992, the New Jersey Department of Environmental Protection s (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 707 **DIST/DIR:** 0.25 SE **ELEVATION:** 12 **MAP ID:** 95

NAME: AMOCO STATION
ADDRESS: 425 NEWARK ST
HOBOKEN NJ 07030
CONTACT:
SOURCE: NJDEP

REV: 4/3/01
ID1: 00-05-02-1001-52
ID2:
STATUS: UNDERGROUND STORAGE TANK
PHONE:

INCIDENT DATE: 4/13/00 **RECEIVED DATE:** 5/2/00
INCIDENT TIME: **NOTIFICATION:** OTHER

LOCATION TYPE: FACILITY

SUBSTANCE RELEASED: GASOLINE
AMOUNT RELEASED: 0 **UNITS:**
SPILL CONTAINED?:
IS SUBSTANCE CONSIDERED HAZARDOUS BY NJDEP?: Y
IS SUBSTANCE ON THE TOXIC CATASTROPHE PREVENTION ACT (TCPA) LIST? N

INCIDENT DESCRIPTION: UNDERGROUND STORAGE TANK
STATUS AT SCENE: REMOVAL OF 1-4000,3-5000, and 1-550 USTS.UST 0328601.TMS N99-1327

MEDIA CONTAMINATED: LAND **RECEIVING WATER:**

RESPONSIBLE PARTY NAME: KNOWN
CONTACT: THOMAS SENATOR
ADDRESS: 770 GARFIELD
JERSEY CITY NJ
PHONE: 201-798-5812

CALLER NAME: N.TERWILLIGER
CALLER ADDRESS: 65 HARRISTOWN RD
GLEN ROCK NJ

PHONE: 201-444-9784

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

LUST

SEARCH ID: 759 **DIST/DIR:** 0.25 SE **ELEVATION:** 12 **MAP ID:** 95

NAME: HOBOKEN AMOCO INC
ADDRESS: 425 NEWARK ST
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 7/11/02
ID1: LU-00-05-02-1001-52
ID2:
STATUS:
PHONE:

SITE INFORMATION

STATUS: ASSIGNED TO A PROGRAM
NFA DATE:
UST NUMBER: 0328601
TMS NUMBER: N99-1327
REMEDIAL LEVEL: CONFIRMED SOIL AND GROUND WATER CONTAMINATION
LEAD AGENCY: BUREAU OF UNDERGROUND STORAGE TANKS
CASE MANAGER: WARD INGERSOLL
CM PHONE: (609) 292-0568
CEA:
DATE CEA LIFTED:
DEAD NOTICE:

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

STATE

SEARCH ID: 479 **DIST/DIR:** 0.25 SE **ELEVATION:** 12 **MAP ID:** 95

NAME: HOBOKEN EXXON INC
ADDRESS: 425 NEWARK ST
HOBOKEN CITY NJ
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/02/11
ID1: 032860
ID2:
STATUS: ACTIVE
PHONE:

KNOWN CONTAMINATED SITES IN NEW JERSEY JUNE 2011 b0

JUNE 2011 STATUS: ACTIVE
HOME OWNER: No

KNOWN CONTAMINATED SITES LIST 2006 DATA b0

PREFERRED ID: 032860
CATEGORY: A: Sites with On-Site Sources of Contamination
STATUS: Active
STATUS DATE: 11/16/2000
REMEDIATION LEVEL: C2-Remediation requires a formal design. The source of the contamination is known OR the release has caused ground water contamination.
CLASSIFICATION EXCEPTION AREA: None
CLASSIFICATION EXCEPTION AREA DATE:
DEED NOTICE: None
DEED NOTICE DATE:
ENGINEERING CONTROLS: None
ENGINEERING CONTROLS DATE:
NPL STATUS:
NPL STATUS DATE:
CONTACT: BSCM-Bureau of Southern Case Management (formerly BUST) (609) 292-8761

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

STATE

SEARCH ID: 388 **DIST/DIR:** 0.25 SE **ELEVATION:** 12 **MAP ID:** 95

NAME: AMOCO SERVICE STATION HOBOKEN CITY
ADDRESS: 425 NEWARK AVE
HOBOKEN NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 11/18/02
ID1: NJL800437584
ID2:
STATUS: KCSNJ
PHONE:

SITE INFORMATION

CASE ID: NJL800437584
SUBSECTION LABEL: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
COMU: 0905
STATUS: ACTIVE
DATE: 11/15/00 0:00:00
CLASSIFICATION EXCEPTION AREA:
REMIDIAL ACTION TYPE:
CONTACT: BUREAU OF UNDERGROUND STORAGE TANKS (609) 292-8761

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 688 **DIST/DIR:** 0.25 SE **ELEVATION:** 12 **MAP ID:** 95

NAME: HOBOKEN EXXON INC
ADDRESS: 425 NEWARK ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0328601
ID2: 032860
STATUS: ACTIVE
PHONE:

OWNER INFORMATION
OWNER NAME: THOMAS SENATORE
OWNER ORGANIZATION: HOBOKEN EXXON INC
OWNER ADDRESS: 27 ORCHARD RD
Watchung NJ 07069

TANK INFORMATION
FACILITY TYPE: Commercial/Industrial

TANK INFORMATION
TANK ID: TANK-1
TANK NUMBER: 0001
TANK SIZE: 5000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1988
TANK STATUS: Removed
TANK STATUS DATE: 4/12/2000
TANK ID: TANK-1
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD: No
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: Tightness Test
PIPE MONITORING: Tightness Test

TANK INFORMATION
TANK ID: TANK-2
TANK NUMBER: 0002
TANK SIZE: 5000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1988
TANK STATUS: Removed
TANK STATUS DATE: 4/12/2000
TANK ID: TANK-2
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD: No
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: Statistical Inventory Reconciliation
PIPE MONITORING: Tightness Test

TANK INFORMATION
TANK ID: TANK-3
TANK NUMBER: 0003
TANK SIZE: 5000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 1/1/1988
TANK STATUS: Removed

- Continued on next page -

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

UST

SEARCH ID: 688 **DIST/DIR:** 0.25 SE **ELEVATION:** 12 **MAP ID:** 95

NAME: HOBOKEN EXXON INC
ADDRESS: 425 NEWARK ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0328601
ID2: 032860
STATUS: ACTIVE
PHONE:

TANK STATUS DATE: 4/12/2000
TANK ID: TANK-3
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD: No
TANK MATERIAL: Bare steel
PIPE MATERIAL: Fiberglass-reinforced plastic
TANK MONITORING: Statistical Inventory Reconciliation
PIPE MONITORING: Tightness Test

TANK INFORMATION
TANK ID: TANK-4
TANK NUMBER: 0004
TANK SIZE: 4000
TANK CONTENTS: Medium Diesel Fuel (No. 2-D)
INSTALL DATE: 1/1/1988
TANK STATUS: Removed
TANK STATUS DATE: 4/12/2000
TANK ID: TANK-4
COMPLIANCE MONITORING: No
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD: No
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: Manual Tank Gauging
PIPE MONITORING: Tightness Test

TANK INFORMATION
TANK ID: TANK-5
TANK NUMBER: 0005
TANK SIZE: 550
TANK CONTENTS: Waste Oil
INSTALL DATE: 1/1/1988
TANK STATUS: Removed
TANK STATUS DATE: 4/12/2000
TANK ID: TANK-5
COMPLIANCE MONITORING: Yes
OVERFILL PROTETCION: No
SPILL CONTAINMENT: No
TANK WELLHEAD: No
TANK MATERIAL: Bare steel
PIPE MATERIAL: Bare steel
TANK MONITORING: Tightness Test
PIPE MONITORING: Tightness Test

TANK INFORMATION
TANK ID: TANK-7
TANK NUMBER: 0006
TANK SIZE: 12000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 4/20/2000

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030

JOB: 91911

UST

SEARCH ID: 688 **DIST/DIR:** 0.25 SE **ELEVATION:** 12 **MAP ID:** 95

NAME: HOBOKEN EXXON INC
ADDRESS: 425 NEWARK ST
HOBOKEN CITY NJ 07030
HUDSON
CONTACT:
SOURCE: NJDEP

REV: 06/03/11
ID1: 0328601
ID2: 032860
STATUS: ACTIVE
PHONE:

TANK STATUS: In-use
TANK STATUS DATE: 4/20/2000
TANK ID: TANK-7
COMPLIANCE MONITORING: Yes
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD:
TANK MATERIAL: Fiberglass-coated steel
PIPE MATERIAL: Fiberglass-reinforced plastic
TANK MONITORING: Interstitial
PIPE MONITORING: Automatic line leak detector

TANK INFORMATION
TANK ID: TANK-8
TANK NUMBER: 0007
TANK SIZE: 10000
TANK CONTENTS: Unleaded Gasoline
INSTALL DATE: 4/20/2000
TANK STATUS: In-use
TANK STATUS DATE: 4/20/2000
TANK ID: TANK-8
COMPLIANCE MONITORING: Yes
OVERFILL PROTETCION: Yes
SPILL CONTAINMENT: Yes
TANK WELLHEAD:
TANK MATERIAL: Fiberglass-coated steel
PIPE MATERIAL: Fiberglass-reinforced plastic
TANK MONITORING: Interstitial
PIPE MONITORING: Interstitial

Environmental FirstSearch
Site Detail Report

Target Property: HOBOKEN NJ 07030 **JOB:** 91911

ENGCONTROL

SEARCH ID: 896 **DIST/DIR:** 0.25 SW **ELEVATION:** **MAP ID:** 99

NAME: TROY LIGHTING INC.
ADDRESS: 833 JERSEY AVE
JERSEY CITY NJ
HUDSON
CONTACT:
SOURCE: NJ DEP

REV: 4/4/07
ID1: DNA-439
ID2: NJK000002469
STATUS: DEED NOTICE EXTENT
PHONE:

SITE INFORMATION

DEED NOTICE EXTENT DATA

KCSL NUMBER: NJK000002469
CASE IDENTIFIER: 03-08-21-0541-21
NJDEP LEAD UNIT: BUREAU OF FIELD OPERATIONS - NORTHERN OFFICE
DEED NOTICE APPROVED: JULY 15, 2004
DN PART OF FINAL REMEDY: YES
DEPTH OF CONTAM: unk
SCALE DIGITIZED:
DEED NOTICE AREA(acres): 0.760272
CAP TYPE: Build flr,asph pk,
DURATION: INDETERM.

CONTAMINANTS
VOLATILE ORGANIC:
SEMI VOLATILE ORGANIC:
METALS:
PESTICIDES:
CARCINOGENIC PAH:
PCB:
RADIONUCLEIDE:
ASBESTOS:
TOT PETROLEUM HYDRO:
TENT ID COMPOUNDS:
HISTORIC FILL: YES

BENZO CONTAMINATION
[A] ANTHRACENE:
[A] PYRENE:
[B] FLOURENE:
[G,H,I] PERYLENE:
[K] FLOURANTHENE:

IDENO [1,2,3-cd] PYRENE:
DIBENZ [A,H] ANTHACENE:
CHRYSENE:
OTHER:

Environmental FirstSearch Descriptions

NPL: ***EPA*** NATIONAL PRIORITY LIST - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money.
A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.
FINAL - Currently on the Final NPL
PROPOSED - Proposed for NPL

NPL DELISTED: ***EPA*** NATIONAL PRIORITY LIST Subset - Database of delisted NPL sites. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.
DELISTED - Deleted from the Final NPL

CERCLIS: ***EPA*** COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.
PART OF NPL- Site is part of NPL site
DELETED - Deleted from the Final NPL
FINAL - Currently on the Final NPL
NOT PROPOSED - Not on the NPL
NOT VALID - Not Valid Site or Incident
PROPOSED - Proposed for NPL
REMOVED - Removed from Proposed NPL
SCAN PLAN - Pre-proposal Site
WITHDRAWN - Withdrawn

NFRAP: ***EPA*** COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.
NFRAP – No Further Remedial Action Plan
P - Site is part of NPL site
D - Deleted from the Final NPL
F - Currently on the Final NPL
N - Not on the NPL
O - Not Valid Site or Incident
P - Proposed for NPL
R - Removed from Proposed NPL
S - Pre-proposal Site
W – Withdrawn

RCRA COR ACT: ***EPA*** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.
RCRAInfo facilities that have reported violations and subject to corrective actions.

RCRA TSD: ***EPA*** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.
Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: ***EPA/MA DEP/CT DEP*** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.
Facilities that generate or transport hazardous waste or meet other RCRA requirements.
LGN - Large Quantity Generators
SGN - Small Quantity Generators
VGN – Conditionally Exempt Generator.
Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.
CONNECTICUT HAZARDOUS WASTE MANIFEST – Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records.
MASSACHUSETTES HAZARDOUS WASTE GENERATOR – database of generators that are regulated under the MA DEP.
VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil.
SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil.
LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

ERNS: ***EPA/NRC*** EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

Tribal Lands: ***DOI/BIA*** INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation.
BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

State/Tribal Sites: ***NJDEP*** KNOWN CONTAMINATED SITES IN NEW JERSERY DATABASE - maintained by the New Jersey Department of Environmental Protection's Site Remediation Program. The database includes sites within the State of New Jersey where contamination of soil or ground water is confirmed, and where remediation is either currently underway or pending.

State Spills 90: ***NJDEP*** DATABASE OF EMERGENCY RESPONSE ACTIONS AND SPILL RELEASES - maintained by the Division of Environmental Safety, Health, and Analytical Programs Bureau of Discharge Prevention.

State/Tribal SWL: ***NJDEP*** DATABASE OF SOLID WASTE LANDFILLS - maintained by the Division of

Solid Waste Bureau of Solid Waste Regulation.

State/Tribal LUST: ***NJDEP*** LIST OF LEAKING UNDERGROUND STORAGE TANKS - maintained by the Division of Environmental Safety, Health, and Analytical Programs Bureau of Discharge Prevention. The database is derived from the New Jersey spills database.

State/Tribal UST/AST: ***NJDEP*** DATABASE OF UNDERGROUND STORAGE TANKS - maintained by the Bureau of Federal Case Management Registration Billing Unit.

State/Tribal EC: ***NJ DEP*** DEED NOTICE EXTENT - This data layer identifies those Known Contaminates Sites (KCS) or sites on Site Remediation Programs' (SRP) Comprehensive Site List (CSL) that have been assigned a Deed notice. A deed notice is described by NJ State Legislature (NJSA 58:10B-13a) as a "...notice to inform prospective holders of an interest in the property that contamination exists on the property at a level that may statutorily restrict certain uses of, or access to, all or part of that property, a delineation of those restrictions, a description of all specific engineering or institutional controls at the property that exist and that shall be maintained in order to prevent exposure to contaminants remaining on the property, and the written consent to the notice by the owner of the property." The deed notice (polygon) was developed to provide information regarding the spatial extent of soil contamination, as well as information regarding engineering controls (eg. cap or fence) and contamination found in the soils above the appropriate standard.

State/Tribal VCP: ***NJDEP*** MOA VCP DATA - In April 1992, the New Jersey Department of Environmental Protection's (department) Voluntary Cleanup Program (VCP) initiated operations.Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.Under the VCP, a party conducting a cleanup enters into an agreement with the department, called a Memorandum of Agreement (MOA), to establish the scope of cleanup activities. Such activities could range from a preliminary assessment and site investigation, to determine if contamination exists at a site, to remedial actions necessary to clean up the site.

State/Tribal Brownfields: ***STATE OF NJ*** STATE OF NJ BROWNFIELDS SITEMART - New Jersey's Online Searchable Database for Brownfield Properties. This database is incomplete because of the changes made on the website which made it difficult to download all site and address information.

RADON: ***NTIS*** NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

FI Map Coverage: ***PROPRIETARY*** FIRE INSURANCE MAP AVAILABILITY - Database of historical fire insurance map availability.

Environmental FirstSearch Database Sources

NPL: ***EPA*** Environmental Protection Agency

Updated quarterly

NPL DELISTED: ***EPA*** Environmental Protection Agency

Updated quarterly

CERCLIS: ***EPA*** Environmental Protection Agency

Updated quarterly

NFRAP: ***EPA*** Environmental Protection Agency.

Updated quarterly

RCRA COR ACT: ***EPA*** Environmental Protection Agency.

Updated quarterly

RCRA TSD: ***EPA*** Environmental Protection Agency.

Updated quarterly

RCRA GEN: ***EPA/MA DEP/CT DEP*** Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection

Updated quarterly

ERNS: ***EPA/NRC*** Environmental Protection Agency

Updated annually

Tribal Lands: ***DOI/BIA*** United States Department of the Interior

Updated annually

State/Tribal Sites: ***NJDEP*** New Jersey Department of Environmental Protection's Site Remediation Program

Updated bi-annually

State Spills 90: ***NJDEP*** Division of Environmental Safety, Health, and Analytical Programs Bureau of Discharge Prevention

Updated quarterly

State/Tribal SWL: ***NJDEP*** The New Jersey Department of Environmental Protection's Division of Solid Waste Bureau of Solid Waste Regulation

Updated annually

State/Tribal LUST: ***NJDEP*** Division of Environmental Safety, Health, and Analytical Programs Bureau of Discharge Prevention

Updated quarterly

State/Tribal UST/AST: ***NJDEP*** The New Jersey Department of Environmental Protection's Bureau of Federal Case Management Registration Billing Unit

Updated quarterly

State/Tribal EC: ***NJ DEP*** New Jersey Department of Environmental Portection

Updated when available

State/Tribal VCP: ***NJDEP*** New Jersey Department of Environmental Protection's Site Remediation Program

Updated annually

State/Tribal Brownfields: ***STATE OF NJ*** The State of New Jersey

Updated

RADON: ***NTIS*** Environmental Protection Agency, National Technical Information Services

Updated periodically

FI Map Coverage: ***PROPRIETARY*** Library of Congress
Catalogue of Maps Published by Sanborn Mapping and Geographic Information Service in February 1988®
ProQuest
Other internally produced datasets

Updated quarterly

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: HOBOKEN NJ 07030

JOB: 91911

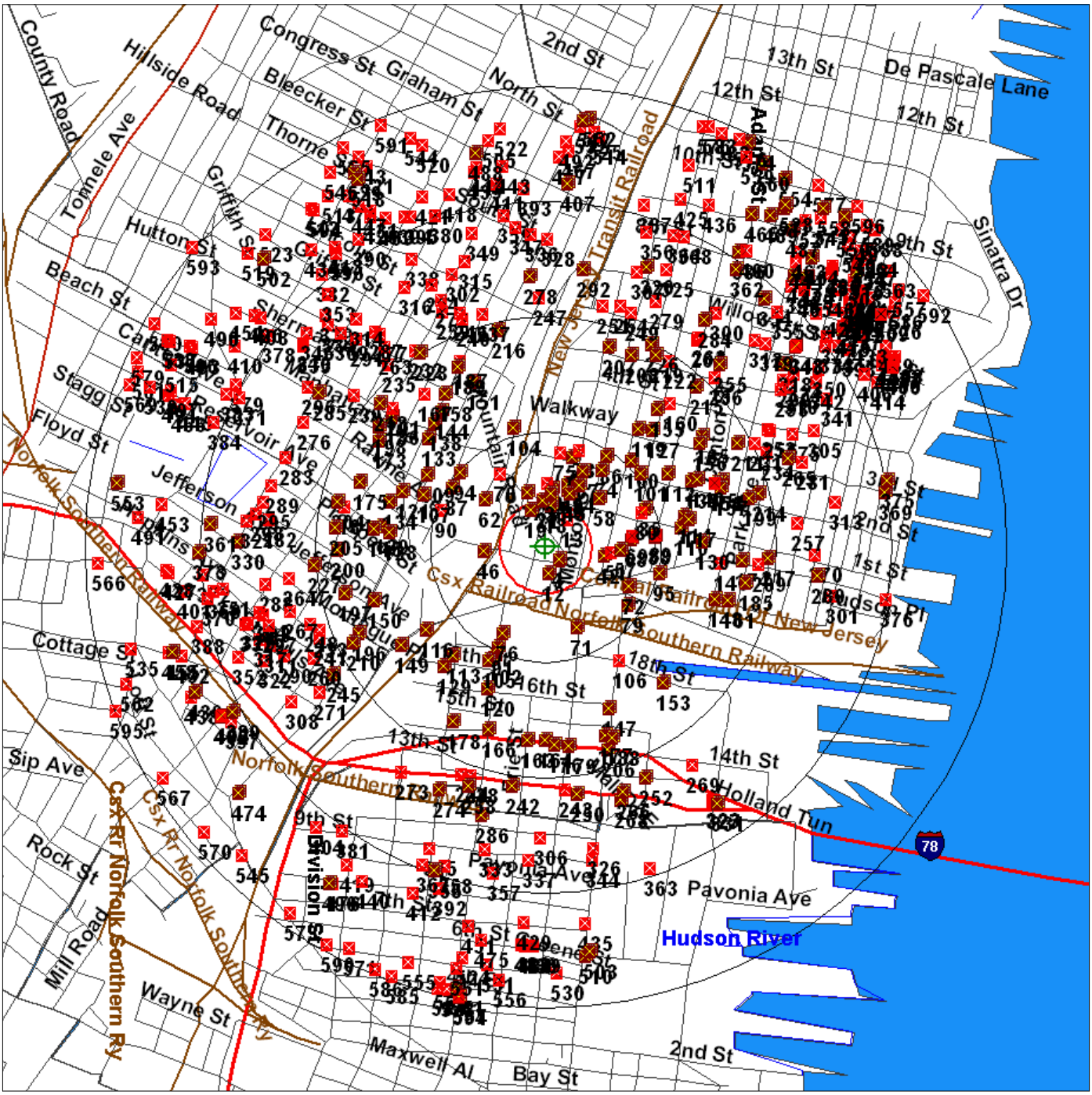
Street Name	Dist/Dir	Street Name	Dist/Dir
18th St	0.23 SW		
1st St	0.11 NE		
2nd St	0.21 NE		
Adams St	0.25 SE		
Coles St	0.25 SW		
Cuneo Pl	0.23 NW		
Franklin St	0.17 NW		
Grove St	0.13 SE		
Harrison St	0.00 --		
Henderson St	0.21 SE		
Hoboken Ave	0.11 SW		
Hope St	0.15 NW		
Jackson St	0.05 SE		
Jefferson St	0.20 SE		
Jersey Ave	0.13 SW		
Luis Munoz Marin Blv	0.21 SE		
Madison St	0.13 SE		
Marshall St	0.05 NW		
Monroe St	0.10 SE		
Mountain Rd	0.20 NW		
New York Ave	0.09 NW		
Newark St	0.10 SE		
Observer Hwy	0.02 SW		
Ogden Ave	0.23 NW		
Paterson Ave	0.05 NE		
Paterson Plank Rd	0.18 NW		
Wood Pl	0.23 NW		

Environmental FirstSearch

Map Width: 2.000 Mile(s)

ASTM Map: NPL, RCRACOR, STATE Sites

, HOBOKEN NJ 07030



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.737875 Longitude: -74.042023) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

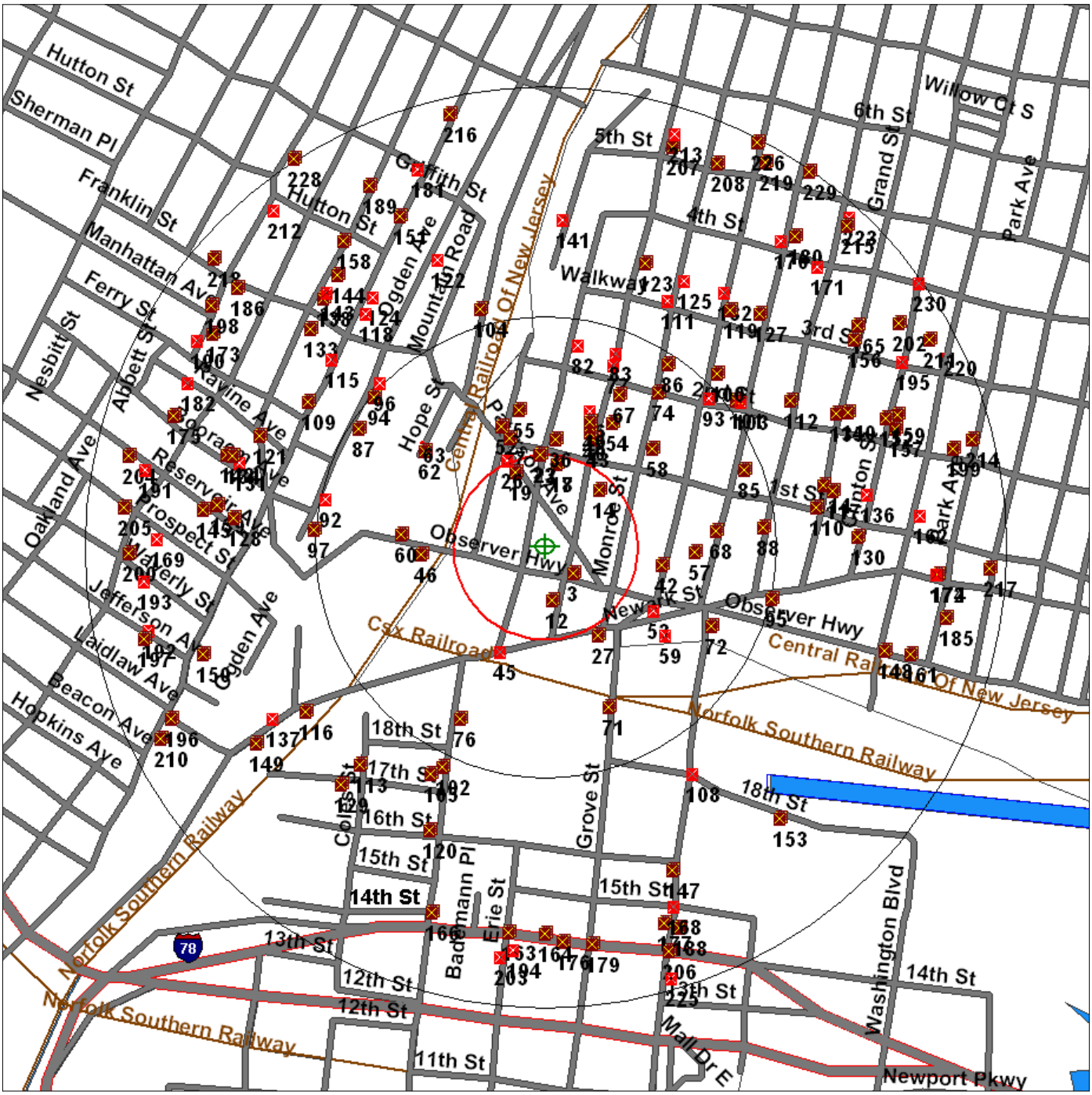
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

Map Width: 1.000 Mile(s)

ASTM Map: CERCLIS, RCRATSD, LUST, SWL

, HOBOKEN NJ 07030



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.737875 Longitude: -74.042023) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

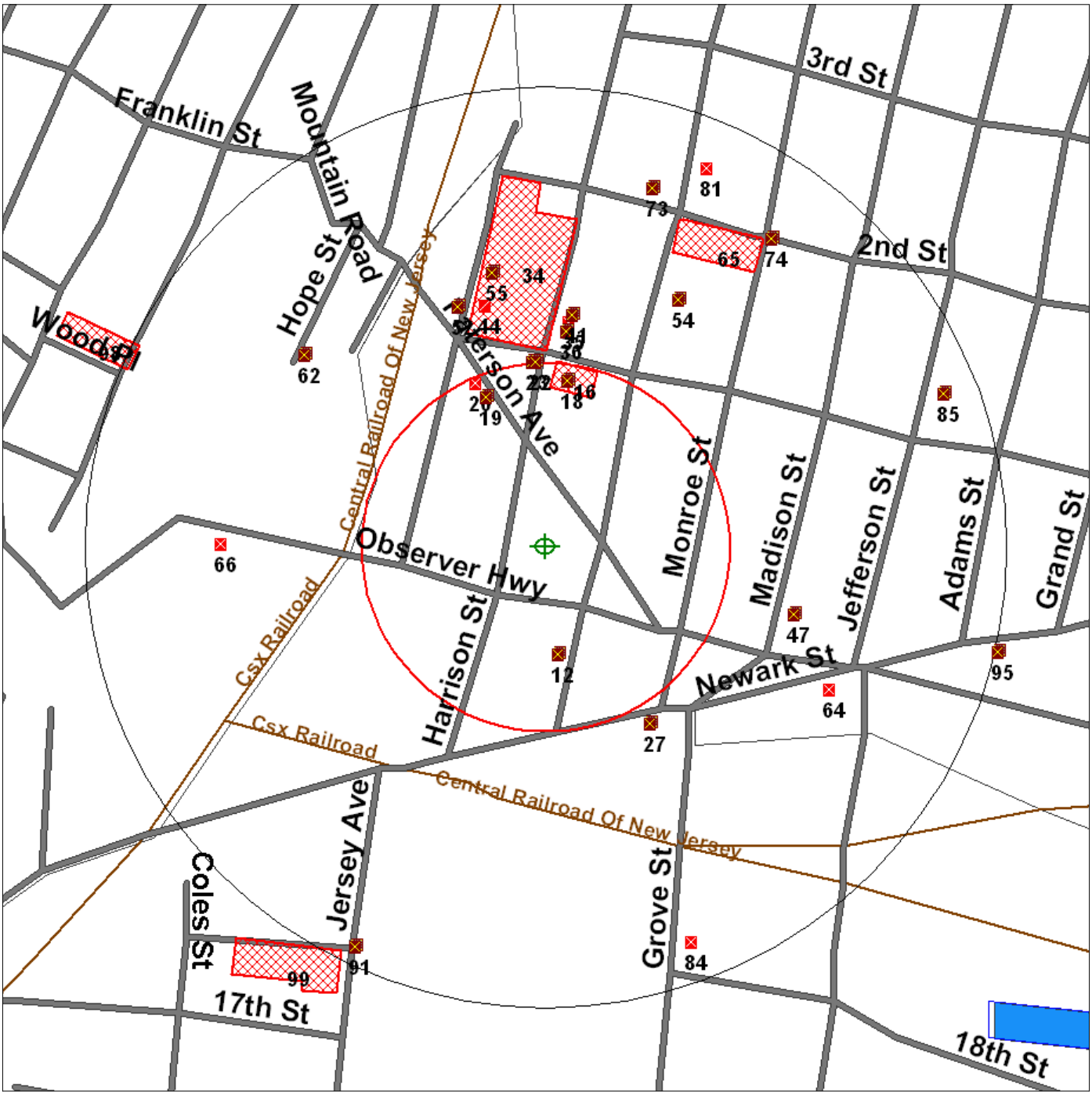
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

Map Width: 0.500 Mile(s)

ASTM Map: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

, HOBOKEN NJ 07030



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.737875 Longitude: -74.042023) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

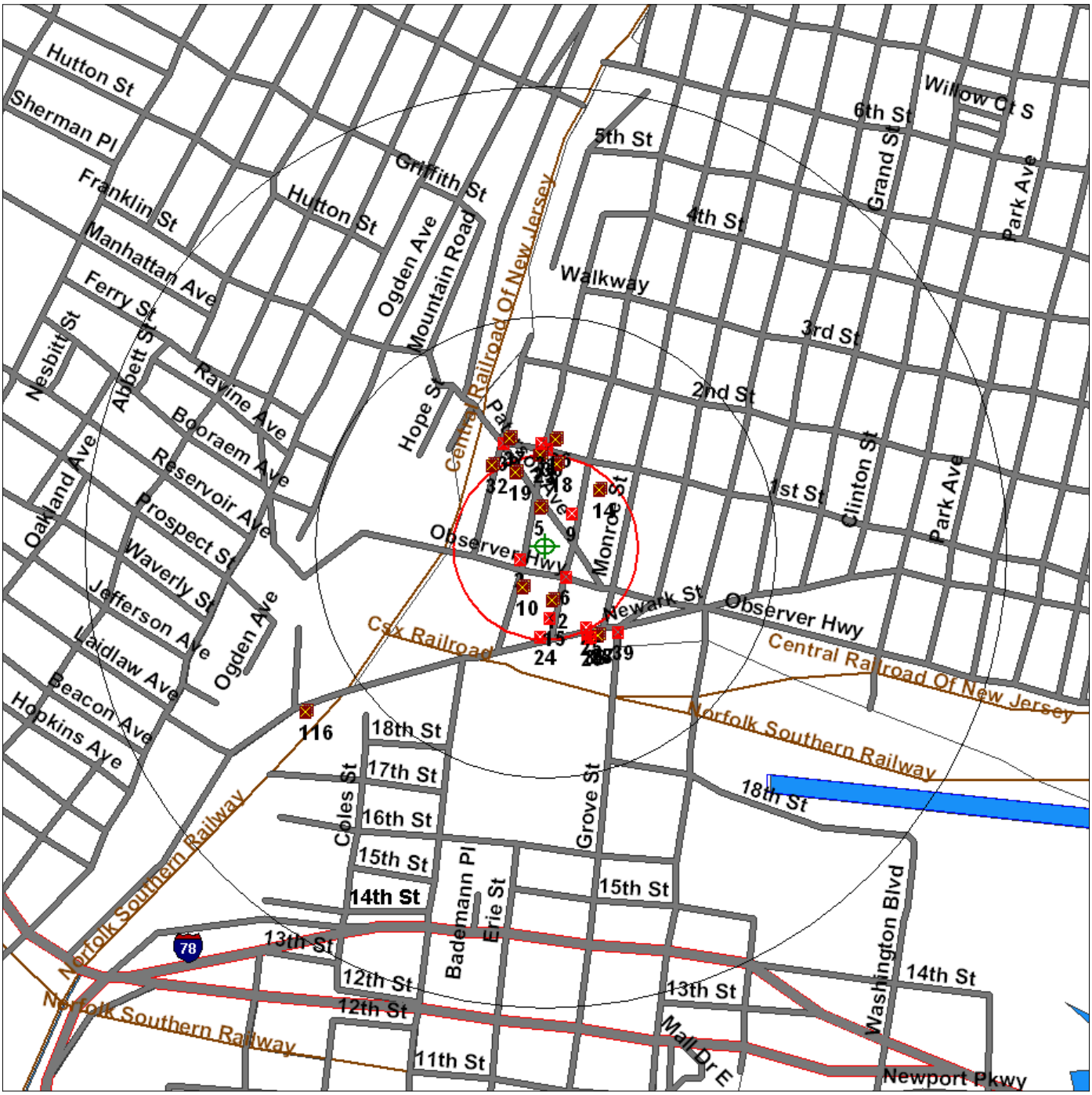
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

Map Width: 1.000 Mile(s)

Non-ASTM Map: Spills 90, Brownfield

, HOBOKEN NJ 07030



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 40.737875 Longitude: -74.042023) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

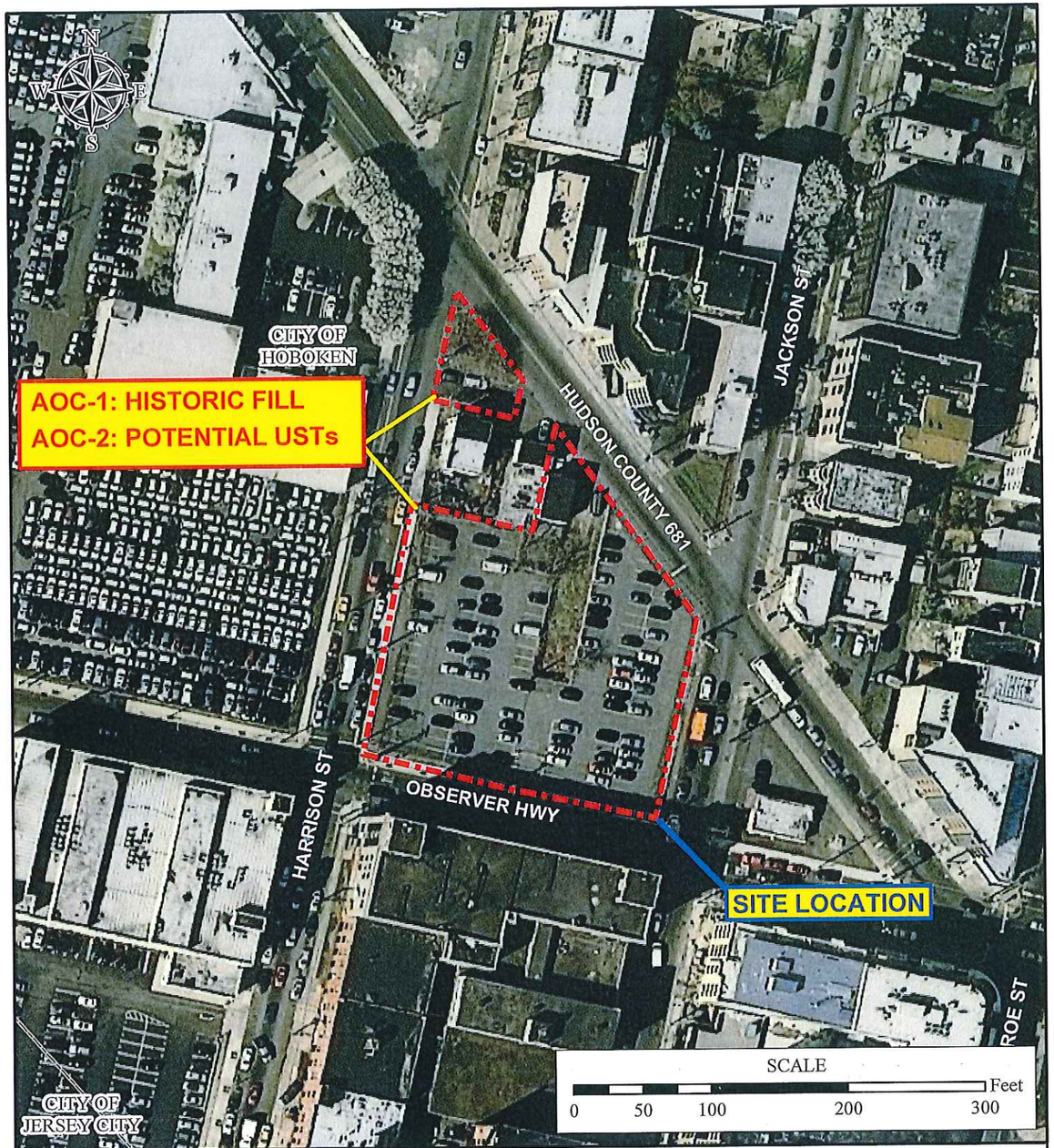
National Historic Sites and Landmark Sites .....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

FIGURE 1

Area of Concern (AOC) Location Map



LEGEND

AOC LOCATION BOUNDARIES

SOURCE:

HUDSON COUNTY ROADS, 2010
NJOIT COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJDEP, 2007 ORTHOPHOTOGRAPHY, (DISK 12 OF 13)
NJDOT ROAD DATA, 2010

AREA OF CONCERN (AOC) LOCATION MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: CEA	SCALE: 1" = 100' DATE: JUNE 2012	JOB NO. HO-458 FIGURE AOC MAP

FIGURE 2

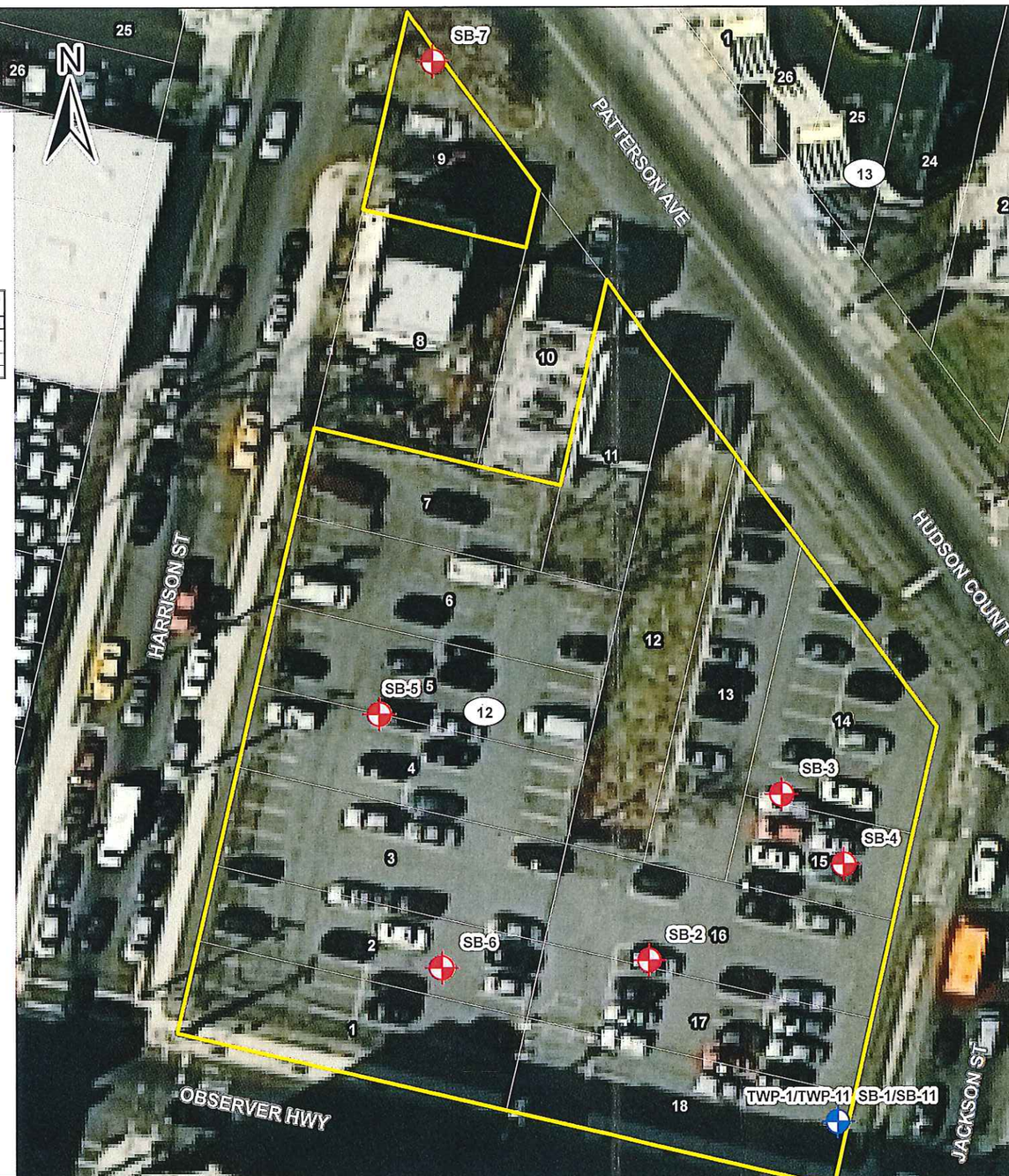
Sampling Plan

TEMPORARY WELL POINT GROUNDWATER SAMPLE RESULTS

Sample Number	TWP-1		
Lab ID	JB6521-1		
Matrix	Aqueous		
PID	0 ppm		
Sampler	MF, CC		
Sampling Date	5/14/2012		
Sampling Time	10:20		
Units	µg/kg (ppm)		
Analytical Parameter		NJDEP GQC *	NJDEP VI GSL **
Volatile Organic Compounds (TCL VOA+)			
Carbon disulfide	0.32 J	700	710
Chloroethane	1.3	-	4
Methyl-Tertiary-Butyl-Ether (MTBE)	0.58 J	70	78
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	-
Semi-volatile Organic Compounds (TCL ABN+)			
Acenaphthene	0.599	400	
Acenaphthylene	0.117	100	
Anthracene	0.274	2,000	
Benzo(a)anthracene	**0.683**	0.1	
Benzo (a) pyrene	**0.58**	0.1	
Benzo(b)fluoranthene	**0.608**	0.2	
Benzo(g,h,i)perylene	0.493	100	
Benzo(k)fluoranthene	0.42	0.5	
bis(2-Ethylhexyl)phthalate	**22**	3	
Chrysene	0.61	5	
Dibenz(a,h)anthracene	0.188	0.3	
Fluoranthene	0.953	300	
Fluorene	0.201	300	
Indeno(1,2,3-cd)pyrene	**0.428**	0.2	
Naphthalene	ND	300	
Phenanthrene	0.88	100	
Pyrene	1.01	200	
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	
TAL Metals			
Aluminum	**8,650**	200	
Antimony	**14.9**	6	
Arsenic	**24.5**	3	
Barium	521	6,000	
Beryllium	<1.0	1	
Cadmium	<3.0	4	
Calcium	140,000	-	
Chromium (total)	22.3	70	
Cobalt	<50	-	
Copper	578	1,300	
Iron	**39,200**	300	
Lead	**738**	5	
Magnesium	35,400	-	
Manganese	**1,100**	50	
Mercury	**2.6**	2	
Nickel	20.8	100	
Potassium	18,700	-	
Selenium	<10	40	
Silver	<10	40	
Sodium	**198,000**	50,000	
Thallium	<2.0	2	
Vanadium	<50	-	
Zinc	387	2,000	
Polychlorinated Biphenyls (TCL PCB)			
Total PCBs	ND	0.5	

NOTES:

ND = Undetected at Laboratory Reporting Limit (RL)
J = Indicates an estimated value
+ = NJDEP Class II-A Aquifer Groundwater Quality Criteria
++ = NJDEP Generic Vapor Intrusion Groundwater Screening Level
* = Carcinogenic Synthetic Organic Compounds - 5 ppb each/25 ppb total
** = Non-Carcinogenic Synthetic Organic Compounds - 100 ppb each/500 ppb total
PID = Photoionization Detector
ppm = parts per million
µg/L = micrograms per liter = parts per billion = ppb
TAL = Target Analyte List
< = Value shown is less than laboratory RL
bold = Exceeds NJDEP Class II-A Groundwater Quality Criteria (GQC)



SOIL SAMPLE RESULTS

Sample Number	SB-1	SB-3	SB-6	SB-7			
Lab ID	JB6521-4	JB6521-6	JB6934-1 & JB6934-1A	JB6934-2, JB6934-2A & JB6934-2R			
Sampling Date	5/14/2012	5/14/2012	5/17/2012	5/17/2012			
Matrix	Soil	Soil	Soil	Soil			
Depth	1.5'-2.0'	4.0'-4.5'	9.0'-9.5'	2.5'-3.0'			
PID	0.4 ppm	0.4 ppm	0.5 ppm	0.5 ppm			
Sampler	MF, CC	MF, CC	MF, CC	MF, CC			
Sampling Time	10:00	11:30	9:30	9:45			
Units	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	NJDEP Soil Remediation Standards		
Analytical Parameter					RDC	NRDC	IGWSSL
NJ Category-2 Non-Fractionated Extractable Petroleum Hydrocarbons (EPH)							
EPH (C9-C28)	~	~	~	203	-	-	-
EPH (>C28-C40)	~	~	~	220	-	-	-
Total EPH (C9-C40)	~	~	~	423	1,700 / 5,100 / 8,000*		-
Volatile Organic Compounds (TCL VOA)							
Benzene	~	~	~	0.0013 J	2	5	0.005
Toluene	~	~	~	0.00067 J	6,300	91,000	4
Tentitively Identified Compounds (TICs) Volatiles	~	~	~	ND	-	-	-
Semi-volatile Organic Compounds (TCL ABN)							
Acenaphthene	4.12	0.0503	0.0471	ND	3,400	37,000	74
Acenaphthylene	9.38	0.0855	ND	ND	-	300,000	-
Anthracene	26.5	0.186	0.119	0.0217 J	17,000	30,000	1,500
Benzo(a)anthracene	**56.8**	**0.696**	0.25	0.0721	0.6	2	0.5
Benzo(a)pyrene	**51.7**	**0.615**	**0.269**	0.0693	0.2	0.2	0.2
Benzo(b)fluoranthene	**59.2**	**0.801**	0.224	0.0886	0.6	2	2
Benzo(g,h,i)perylene	22.7	0.364	0.135	0.084	380,000	30,000	-
Benzo(k)fluoranthene	**25**	0.344	0.172	0.0641	6	23	16
Carbazole	~	~	~	0.0480 J	24	96	-
Chrysene	**52.2**	0.705	0.225	0.0927	62	230	52
Dibenzo(a,h)anthracene	**9.88**	0.129	0.0633	0.0268 J	0.2	0.2	0.5
Diethyl phthalate	~	~	~	0.0808 J	49,000	550,000	57
bis(2-Ethylhexyl)phthalate	~	~	~	0.142	35	140	790
Fluoranthene	114	1.59	0.389	0.134	2,300	24,000	840
Fluorene	14.8	0.04	0.0481	ND	2,300	24,000	110
Indeno(1,2,3-cd)pyrene	**24.3**	0.325	0.139	0.0585	0.6	2	5
2-Methylnaphthalene	~	~	~	0.0763 J	230	2,400	5
Naphthalene	3.35	0.0208 J	0.0150 J	ND	31	340	0.2
Phenanthrene	73.9	0.834	0.345	0.0892	-	300,000	-
Pyrene	85.9	1.64	0.395	0.152	1,700	18,000	550
Tentitively Identified Compounds (TICs) Semi-Volatiles	~	~	~	1.45 J	-	-	-
TAL Metals							
Aluminum	**7,820**	**6,440**	**9,840**	**5,620**	78,000	-	3,900
Antimony	**12.5**	<2.4	<2.5	<2.2	31	450	6
Arsenic	**43**	10.2	7.2	18	19	19	19
Barium	346	108	95	204	16,000	59,000	1,300
Beryllium	0.4	0.33	**0.81**	**0.72**	16	140	0.5
Cadmium	**1.7**	<0.60	<0.61	**2.7**	78	78	1
Calcium	10,800	12,400	10,200	5,040	-	-	-
Chromium (total)	31	8.7	22.5	39.7	-	-	-
Cobalt	10.3	<6.0	7.1	<5.6	1,600	590	59
Copper	197	45.6	32.9	90.6	3,100	45,000	7,300
Iron	24,400	10,000	17,900	21,300	-	-	-
Lead	**866**	**157**	**200**	**678**	400	800	59
Magnesium	5,360	1,140	4,530	1,500	-	-	-
Manganese	**181**	**129**	**501**	**158**	11,000	5,900	42
Mercury	**9**	**0.88**	**0.8**	**0.38**	23	65	0.1
Nickel	**51.7**	6.1	22.3	**36.4**	1,600	23,000	31
Potassium	<1,500	<1,200	2,370	<1,100	-	-	-
Selenium	<3.1	<2.4	<2.5	<2.2	390	5,700	7
Silver	**4.4**	<0.60	<0.61	0.91	390	5,700	1
Sodium	<1,500	<1,200	<1,200	<1,100	-	-	-
Thallium	<1.5	<1.2	<1.2	<1.1	5	79	3
Vanadium	27.8	11.7	28.7	43.6	78	1,100	-
Zinc	**1,880**	87.7	83.3	**1,760**	23,000	110,000	600
Polychlorinated Biphenyls (TCL PCB)							
Total PCB	~	~	~	ND	0.2	1	0.2

NOTES:

RDC = NJDEP Residential Direct Contact Soil Remediation Standard
NRDC = NJDEP Non-Residential Direct Contact Soil Remediation Standard
IGWSSL = Impact to Groundwater Soil Screening Level
bold - Exceeds NJDEP RDCSRS
bold - Exceeds NJDEP IGWSSL
J = Estimated Value
PID = Photoionization Detector
- = Remediation Standard Not Established
ND = Not detected
mg/kg = milligrams per kilogram = ppm = parts per million
~ = Not analyzed
< = Value shown is less than laboratory RL
* ecological concern/soil remediation standard/residual product limits

LEGEND

- SITE BOUNDARIES
- HUDSON COUNTY PARCELS
- (10) BLOCK NUMBER
- 18 LOT NUMBER
- SOIL BORING AND TEMPORARY WELL POINT LOCATION
- SOIL BORING LOCATION

Boswell McClave Engineering
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 Philips Avenue South Hackensack, NJ 07606

SCALE
0 20 40 80 120 Feet

SOURCE:
HUDSON COUNTY PARCEL DATA, 2010
NJDEP, 2007 ORTHOPHOTOGRAPHY, (DISK 12 OF 13)
NJDOT ROAD DATA, 2010

SAMPLE LOCATION PLAN

BLOCK 12, LOTS 1-7, 9, AND 11-18, CITY OF HOBOKEN

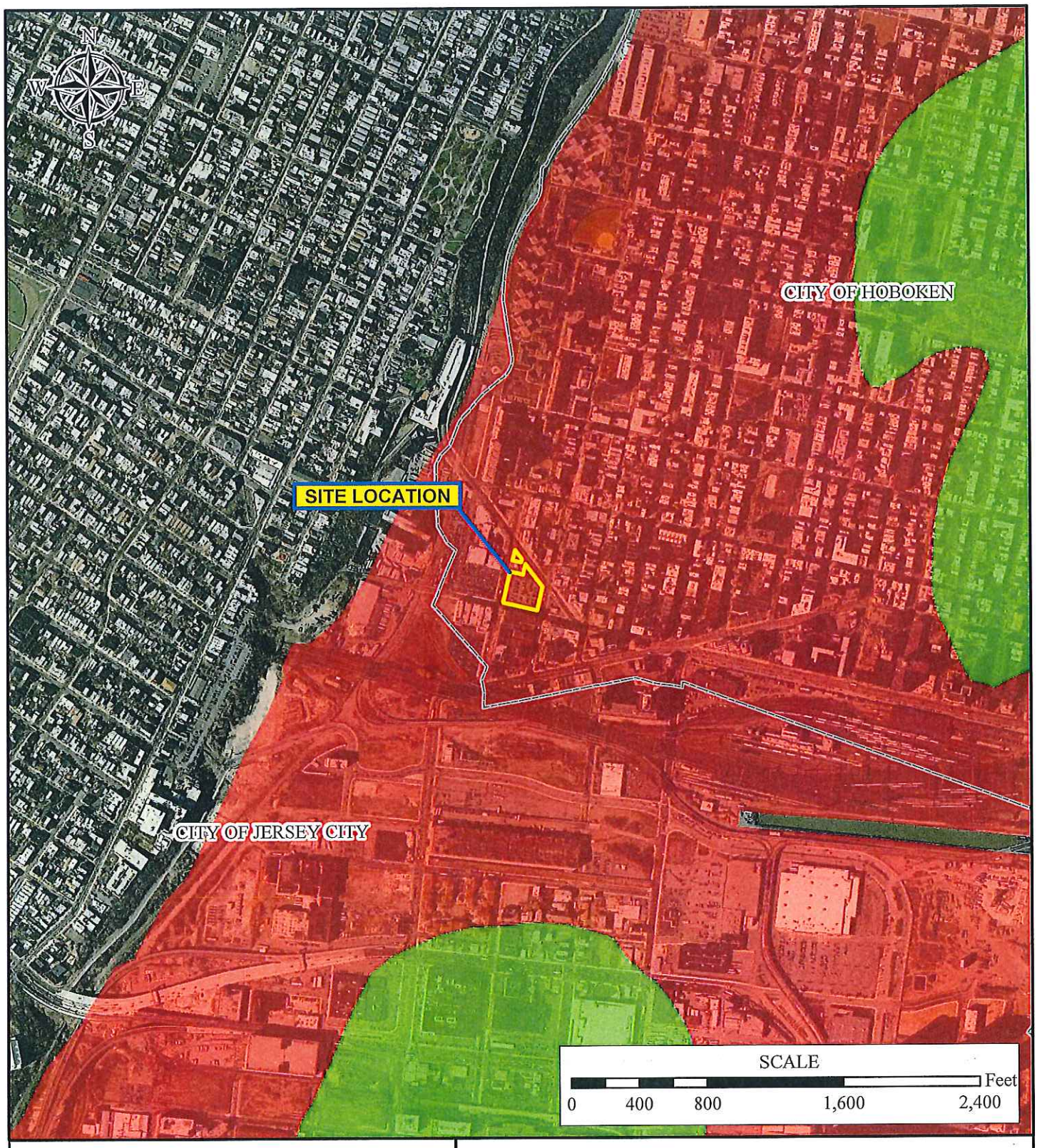
HUDSON COUNTY NEW JERSEY

SURVEYED BY N/A	DESIGNED BY CJC	SCALE	JOB NO.	DATE
DRAWN BY CJC	CHECKED BY CEA	1 in = 40 ft	HO-458	06/07/2012

DRAWING NO. SAMPLING PLAN FIGURE NO. 2

FIGURE 3

Historic Fill Aerial Overlay Map



LEGEND

SITE BOUNDARIES

MUNICIPAL BOUNDARIES

HISTORIC FILL

FILL AREAS

NON-FILL AREAS

SOURCE:
NJDEP, BGIS, HISTORIC FILL DATASET, 2005
NJOIT COUNTY AND MUNICIPALITY BOUNDARIES, 2010
NJDEP ORTHOPHOTOGRAPHY (Disk 12 of 13), 2007

HISTORIC FILL MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 800' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE HIST. FILL

New Jersey Department of Environmental Protection
Site Remediation Program

CONFIRMED DISCHARGE NOTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Block 12, Lots 1-7, 9, 11-18

List all AKAs:

Street Address: 57-69 Harrison Street, 51-59 Paterson Avenue, & 58-64 Jackson Street

Municipality: City of Hoboken (Township, Borough or City)

County: Hudson Zip Code: 07030

Program Interest (PI) Number(s): Case Tracking Number(s):

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2.

State Plane Coordinates for a central location at the site: Easting: 619,035 Northing: 694,045

Municipal Block(s) and Lot(s):

Block #	12	Lot #	1, 2, 3, 4, 5, 6, 7, 9,	Block #	12	Lot #	11, 12, 13, 14, 15,
Block #	12	Lot #	16, 17, and 18	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. DISCHARGE BEING REPORTED WITH THIS SUBMISSION

Incident Number/Com. Center Number for the discharge being reported with this submission:

Is there an existing remedial case at the site? ☐ Yes ☒ No

If "Yes," would you like to combine this incident number with the existing case? ☐ Yes ☐ No

Provide the Tracking Number for the existing remedial case would you like to combine this incident number with:

SECTION C. CURRENT OWNER OF THE SITE

Affiliation/Name of Organization: Ponte Equities, Inc./Unity Environmental

First Name of Contact: Blake Last Name of Contact: Davis

Title: Attorney

Phone Number: (201) 863-4400 Ext: Fax:

Mailing Address: 268 West Street

City/Town: New York State: New York Zip Code: 10013

Email Address:

SECTION D. SITE USE

Current Site Use (check all that apply)

- ☐ Industrial
- ☒ Residential
- ☒ Commercial
- ☐ School or child care
- ☐ Agricultural
- ☐ Park or recreational use
- ☒ Vacant
- ☐ Government
- ☐ Other:

Intended Future Site Use, if known (check all that apply)

- ☐ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☒ Park or recreational use
- ☐ Vacant
- ☐ Government
- ☐ Future site use unknown

SECTION E. DESCRIPTION OF DISCHARGE

Date Discharge Occurred: _____ Date Discharge Notification to the Department: _____

Media Contaminated:

☒ Soil ☒ Groundwater ☐ Surface Water Receiving Water: _____

Description of Discharge:

Historic fill was visually identified in soil borings. Subsurface soil samples detected Polycyclic Aromatic Hydrocarbons (PAH), arsenic, and lead above the NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS). Groundwater contained PAHs and metals: aluminum, antimony, arsenic, iron, lead, manganese, mercury, and sodium above the NJDEP Groundwater Quality Criterion (GQC). Date of release of historic fill material is unknown.

SECTION F. FEDERAL RELEASE

Is this discharge related to a release from a Federally regulated UST? ..... ☐ Yes ☒ No

If "Yes," please answer the following questions:

Tank ID (from Registration): _____ Tank System Size: _____

Contents: _____

Source of Federal Release (check appropriate category):

- ☐ Dispenser
- ☐ Vent Pipe
- ☐ Fill Port/Fill Lines
- ☐ Piping (Upgraded)
- ☐ Piping (Not Upgraded)
- ☐ Spill Bucket
- ☐ Tank (Upgraded)
- ☐ Tank (Not Upgraded)
- ☐ Vapor System Recovery
- ☐ Submersible Turbine Pump Area
- ☐ Other (Specify) _____
- ☐ Delivery Problem
- ☐ Unknown

Cause of Federal Release (check appropriate category):

- ☐ Spill
- ☐ Overfill
- ☐ Physical/Mechanical Damage
- ☐ Loose Fittings
- ☐ Installation Problem
- ☐ Vapor Release
- ☐ Other (Specify) _____
- ☐ Corrosion
- ☐ Unknown

SECTION G. CASE TYPE: (check all that apply)

- ☐ Child Care Center
- ☐ School
- ☐ School Development Authority (SDA)
- ☐ UST Grant/Loan
- ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☐ Administrative Consent Order (ACO)
- ☐ Remediation Agreement (RA)/Remediation Certification
- ☐ Brownfield Development Area (BDA)
- ☐ Site is located within an economic development priority area
- ☐ ISRA
- ☐ Regulated Underground Storage Tank (UST)
- ☐ Landfill
- ☐ Federal oversight (RCRA, CERCLA, USDOD, TSCA, etc.)
- ☐ Coal Gas
- ☐ Chrome Site (Chromate chemical production waste)
- ☒ Spill Act Discharge
- ☐ Government Entity
- ☐ Not Applicable

SECTION H. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: The City of Hoboken

Representative First Name: Quentin Representative Last Name: Wiest

Title: Business Administrator

Phone Number: (201) 420-2059 Ext: Fax: (201) 420-9513

Mailing Address: 94 Washington Street

City/Town: Hoboken State: New Jersey Zip Code: 07030

Email Address: qwiest@hobokennj.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Quentin Wiest Date: 6-11-12

Name/Title: Quentin Wiest/Business Administrator **No Changes Since Last Submittal** ☐

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

New Jersey Department of Environmental Protection
Site Remediation Program
PRELIMINARY ASSESSMENT / SITE INVESTIGATION
(Also Use this Form For UST Unknown Source Investigations)

Date Stamp
(For Department use only)

A Phase I or Phase II is not equivalent to a Preliminary Assessment; therefore, it will not be an acceptable substitution.

SECTION A. SITE NAME AND LOCATION

Site Name: Block 12, Lots 1-7, 9, 11-18

List all AKAs:

Street Address: 57-69 Harrison Street, 51-59 Paterson Avenue, & 58-64 Jackson Street

Municipality: City of Hoboken (Township, Borough or City)

County: Hudson Zip Code: 07030

Incident Number(s)/Com. Center Number(s):

Program Interest (PI) Number(s): 585028 Case Tracking Number(s):

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2:

State Plane Coordinates for a central location at the site: Easting: 619,035 Northing: 694,045

Municipal Block(s) and Lot(s):

Block #	12	Lot #	1, 2, 3, 4, 5, 6, 7, 9,	Block #	12	Lot #	11, 12, 13, 14, 15,
Block #	12	Lot #	16, 17, and 18	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☒ No

If "Yes," please list the Case Manager:

SECTION C. SUBMITTAL STATUS

	Not Applicable	Included in this Submission	Previously Submitted	Date Of Submission	Date of Revised Submission	Date of Document Withdrawal
Public Notification	☒	☐	☐			
Immediate Environmental Concern Report	☒	☐	☐			
IEC Engineered System Response Action Report	☒	☐	☐			
Vapor Concern Mitigation Report	☒	☐	☐			
LNAPL Interim Remedial Measure Report	☒	☐	☐			
Preliminary Assessment Report	☐	☒	☐			
Receptor Evaluation	☒	☐	☐			
Site Investigation Report	☐	☒	☐			
Remedial Investigation/Remedial Action Work Plan	☒	☐	☐			
Remedial Action Report	☒	☐	☐			
Response Action Outcome	☒	☐	☐			
Alternative Soil Remediation Standard and/or Screening level Application Form	☒	☐	☐			
Case Inventory Document	☐	☒	☐			

Permit Application – list:	☒	☐	☐			
	☐	☐	☐			
	☐	☐	☐			
	☐	☐	☐			
Radionuclide Remedial Investigation Workplan	☒	☐	☐			
Radionuclide Remedial Investigation Report	☒	☐	☐			
Radionuclide Remedial Action Workplan	☒	☐	☐			
Radionuclide Remedial Action Report	☒	☐	☐			

SECTION D. SITE USE

Current Site Use (check all that apply)

- ☐ Industrial
- ☒ Residential
- ☒ Commercial
- ☐ School or child care
- ☐ Other: _____
- ☐ Agricultural
- ☐ Park or recreational use
- ☒ Vacant
- ☐ Government

Intended Future Site Use, if known (check all that apply)

- ☐ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☒ Park or recreational use
- ☐ Vacant
- ☐ Government
- ☐ Future site use unknown

SECTION E. CASE TYPE: (check all that apply)

- ☐ Child Care Facility
- ☐ School facility
- ☐ School Development Authority (SDA)
- ☐ UST Grant/Loan
- ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☐ Administrative Consent Order (ACO)
- ☐ Remediation Agreement (RA)
- ☐ Brownfield Development Area (BDA)
- ☐ Site is located within an economic development priority area
- ☐ ISRA
- ☐ Regulated Underground Storage Tank (UST)
- ☐ Landfill
- ☐ Federal oversight (RCRA, CERCLA, DOD, TSCA, etc.)
- ☐ Coal Gas
- ☐ Chrome Site (Chromate chemical production waste)
- ☒ Spill Act Discharge
- ☒ Due Diligence with RAO
- ☐ Not Applicable

SECTION F. PUBLIC FUNDS

Did the remediation utilize public funds? ..... ☒ Yes ☐ No

If "Yes," check applicable:

- ☐ UST Grant
- ☐ HDSRF Grant
- ☐ Spill Fund
- ☐ UST Loan
- ☐ HDSRF Loan
- ☐ Schools Development Authority
- ☐ Brownfield Reimbursement Program
- ☐ Landfill Reimbursement Program
- ☒ NJDEP Green Acres Program

SECTION G. GENERAL

1. Was an inspection of the site conducted? ..... ☒ Yes ☐ No ☐ NA
   Date of the inspection 10/17/2011
2. Did the PA identify any areas of concern? ..... ☒ Yes ☐ No ☐ NA
   If "Yes," please complete section H2.
3. What page or appendix is the site map indicating all of the areas of concern located? Figure 1
4. Did the PA identify any current or historic industrial, commercial, agricultural or residential use at the site dating back to the time the site was naturally vegetated? ..... ☒ Yes ☐ No ☐ NA
   If "Yes," please complete section H1.
5. Prior to this submittal have any NFAs/RAOs been issued for this site? ..... ☐ Yes ☒ No
   a. Does the site currently have a Deed Notice? ..... ☐ Yes ☒ No
   b. Does the site currently have a CEA? ..... ☐ Yes ☒ No
   c. Has an order of magnitude evaluation been performed? ..... ☐ Yes ☒ No
6. Is the ground water at the site classified as a Class I Ground Water? ..... ☐ Yes ☒ No
7. Are there potable wells on-site? ..... ☐ Yes ☒ No

8. Has a well search been conducted pursuant to N.J.A.C. 7:26E-1.17? ☐ Yes ☒ No
   a. If "Yes," are there any potable wells within 200' of the AOCs listed in H2 or within 200' of the site boundary? ☐ Yes ☐ No
9. Is an environmentally sensitive natural resource (ESNR) present on, adjacent to, or potentially impacted by the site? ☐ Yes ☒ No
   a. If "Yes," are there visible signs of impact/impairment (e.g., discolored media, stressed vegetation, discharge/spill, seeps, fish kill)? ☐ Yes ☐ No
   b. Provide a scaled figure that documents the presence or absence of an ESNR.
10. Has the site investigation been completed for:
   Specific Areas Of Concern (AOC)s? ☐ Yes ☒ No
   Entire Site based on a PA? ☒ Yes ☐ No
11. Have all of the potentially contaminated AOCs identified in the PA been addressed within the regulatory timeframe? ☒ Yes ☐ No ☐ NA

SECTION H. SITE INFORMATION

H1. Current and Historic Operators/Operations (attach additional sheets as necessary)

Name of Operator	Type of Operation – e.g., dry cleaning, electro-plating, residence	Dates of Operation	
		Start	End
	*** Please See Attached Sheet ***		

H2. Areas of Concern (For PA or PA/SI Report, list each AOC; for SI Report, list only AOCs documented in this submittal.)

	Area of Concern	Currently Exists? ☒ if "Yes"	Formerly Existed? ☒ if "Yes"	Investigation: SI Conducted ☒ if "Yes"	Investigation: RI Proposed ☒ if "Yes"
1	Above ground storage tank and associated piping	☐	☐	☐	☐
2	Area of stressed vegetation	☐	☐	☐	☐
3	Area which receives flood or storm water from potentially contaminated areas	☐	☐	☐	☐
4	Chemical storage cabinet and closet	☐	☐	☐	☐
5	Compressor vent discharge	☐	☐	☐	☐
6	Discharge area pursuant to N.J.A.C. 7:1E	☐	☐	☐	☐
7	Discolored or spill area	☐	☐	☐	☐
8	Drainage swale and culvert	☐	☐	☐	☐
9	Drywell and sump	☐	☐	☐	☐
10	Dumpster	☐	☐	☐	☐
11	Electrical transformer and capacitor	☐	☐	☐	☐
12	Floor drain collection system	☐	☐	☐	☐
13	Former agricultural applied pesticide area	☐	☐	☐	☐
14	Hazardous material storage or handling area	☐	☐	☐	☐
15	Historic fill or any other fill material	☒	☐	☒	☐

16	Hydraulic lift	☐	☐	☐	☐
17	Incinerator	☐	☐	☐	☐
18	Landfill or landfarm	☐	☐	☐	☐
19	Loading and unloading area	☐	☐	☐	☐
20	Non-contact cooling water discharge	☐	☐	☐	☐
21	Open area away from production area	☐	☐	☐	☐
22	Piping, above ground and below ground pumping station, sump and pit	☐	☐	☐	☐
23	Process area sink and piping which receive process waste	☐	☐	☐	☐
24	Rail car	☐	☐	☐	☐
25	Roof leader when process operations vent to the roof	☐	☐	☐	☐
26	Septic system, leachfield or seepage pit	☐	☐	☐	☐
27	Silo	☐	☐	☐	☐
28	Sprayfield	☐	☐	☐	☐
29	Storage pad including drum and/or waste storage	☐	☐	☐	☐
30	Storm sewer and spill containment collection system	☐	☐	☐	☐
31	Storm water detention pond and fire pond	☐	☐	☐	☐
32	Surface impoundment and lagoon	☐	☐	☐	☐
33	Surface water body	☐	☐	☐	☐
34	Underground piping including industrial process sewer	☐	☐	☐	☐
35	Underground storage tank and associated piping	☐	☐	☐	☐
36	Waste pile as defined by N.J.A.C. 7:26	☐	☐	☐	☐
37	Waste water treatment	☐	☐	☐	☐
38	Other:	☐	☐	☐	☐

H3. Complete this section only if an ISRA waiver was issued or an ISRA NFA was issued under an expedited review or Limited Site Review.

ISRA Case #	Expedited Review	Limited Site Review	Remediation In Progress Waiver	Regulated UST Waiver	Date	Comments
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		

H4. REGULATED USTs: Complete if any underground storage tanks (USTs) on site are regulated pursuant to N.J.A.C. 7:14B or if a UST Unknown Source Investigation was conducted pursuant to N.J.A.C. 7:14B-7.4.

a. Have all the regulated USTs on site been registered with the Department? ..... ☐ Yes ☐ No

b. Have all incidents related to regulated USTs been remediated/investigated? ..... ☐ Yes ☐ No

c. Have any USTs been removed on/after September 4, 1990? ..... ☐ Yes ☐ No

d. Including this submittal, has an SI/RI report been submitted for all USTs closed on/after September 4, 1990? ..... ☐ Yes ☐ No

e. Was an Unknown Source Investigation conducted per N.J.A.C. 7:14B-7.4? ..... ☐ Yes ☐ No
If "No" skip to H5.

1) Did the investigation identify contamination? ☐ Yes ☐ No
If "No" skip to H5.

2) Was an ongoing release discovered? ☐ Yes ☐ No
If "No" skip to H5.

3) Was the UST system emptied and taken out-of-service? ☐ Yes ☐ No
(Note: A UST Facility Certification Questionnaire must be submitted to update the registration.)

H5. Compliance Check (Complete only if sampling of soil and/or ground water was conducted)

a. Identify the media if impacted above applicable standards/screening levels (check all that apply):

☒ soil ☒ ground water

Type of contamination in soil and ground water above applicable standards/screening levels (check all that apply):

Soil	Ground Water		Soil	Ground Water	
☐	☐	Volatile Organics	☐	☐	PCBs
☒	☒	Polycyclic Aromatic Hydrocarbons(PAHs)	☐	☐	Chromium
☐	☐	Acid Extractables	☐	☐	Dioxin
☐	☐	Base Neutrals (non-PAHs)	☐	☐	Mercury
☒	☒	Metals	☒	☒	Arsenic
☐	☐	Pesticides	☐	☐	Perchlorate, RDX, TNT, etc.
☐	☐	PHC	☐	☐	Other, specify _____

b. For all AOCs at which a SI was conducted, but no RI/RA is proposed:

1) Are any soil analytical results greater than the most stringent Direct Contact Soil Remediation Standards (DCSRS)? ☒ Yes ☐ No

2) Are any soil analytical results greater than the default Impact to Ground Water Soil Screening Levels (IGWSSL)? ☒ Yes ☐ No

3) Are any ground water analytical results greater than the Ground Water Quality Standards (GWQS)? ☒ Yes ☐ No ☐ NA

4) Are any Method Detection Limits (MDLs) greater than the applicable soil and/or ground water standards or screening levels? ☐ Yes ☒ No

5) Are any surface water analytical results greater than the most stringent, both human and ecological, Surface Water Quality Standards? ☐ Yes ☐ No ☒ NA

6) Are any sediment analytical results above the screening levels? ☐ Yes ☐ No ☒ NA

7) Are any analytical results above the vapor intrusion screening levels? ☐ Yes ☒ No ☐ NA

8) Did the SI document, via a background investigation, outside the influence of onsite AOCs and operational areas, determine that:

a) contamination is migrating onto this site per N.J.A.C. 7:26E-3.7(g)? ☐ Yes ☒ No ☐ NA

b) contamination is naturally occurring per N.J.A.C. 7:26E-3.10? ☐ Yes ☒ No ☐ NA

9) Contamination is associated with an ongoing ISRA remediation. ☐ Yes ☒ No ☐ NA

c. Have Alternative Remediation Standards (ARS) been utilized for Inhalation and/or Ingestion/Dermal pathways? ☐ Yes ☒ No

d. Have any site specific Impact to Groundwater Soil Remediation Standards (IGWSRS) been established? ☐ Yes ☒ No

Note: Complete if "Yes" to question b.) 1-4, c. or d. List affected AOC(s) below; attach additional sheets if necessary.

Area of Concern (from H2. above)	Exceeds DCSRS	Exceeds IGWSSL	Exceeds GWQS	MDLs > Standards	ARS	Site Specific IGWSRS	Comments
AOC-2: Potential USTs	☒	☒	☒	☐	☐	☐	Soil and G.W. contaminant
	☐	☐	☐	☐	☐	☐	due to AOC-1 historic fill
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	

	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	

SECTION I. ALTERNATIVE STANDARD / VARIANCES

Alternative remediation standard
If proposing an alternative remediation standard pursuant to N.J.A.C. 7:26D-7.4, or alternate vapor intrusion screening level, check here ☐ and attach the Alternative Soil Remediation Standard and/or Screening Level Application Form as an addendum.

A site-specific screening level was developed for the evaluation of the VI pathway ..... ☐ Yes ☒ No

Variance from regulations
If the Licensed Site Remediation Professional has varied from the Technical Rules, provide the citation(s) from which the remediation varied and the page(s) in the attached document where the rationale for the variance is provided.

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

SECTION J. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: The City of Hoboken

Representative First Name: Quentin Representative Last Name: Wiest

Title: Business Administrator Business Affiliation: _____

Phone Number: (201) 420-2059 Ext: _____ Fax: (201) 420-9513

Mailing Address: 94 Washington Street

City/Town: Hoboken State: New Jersey ZIP Code: 07030

Email Address: qwiest@hobokennj.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Quentin Wiest Date: 8-7-12

Name/Title: Quentin Wiest, Business Administrator **No Changes Since Last Submittal** ☐

SECTION K. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 550658

First Name: Stephen Last Name: Boswell

Phone Number: (201) 373-8905 Ext: Fax: (201) 641-1757

Mailing Address: 330 Phillips Avenue

City/Town: South Hackensack State: New Jersey Zip Code: 07606

Email Address: environmental@boswellengineering.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

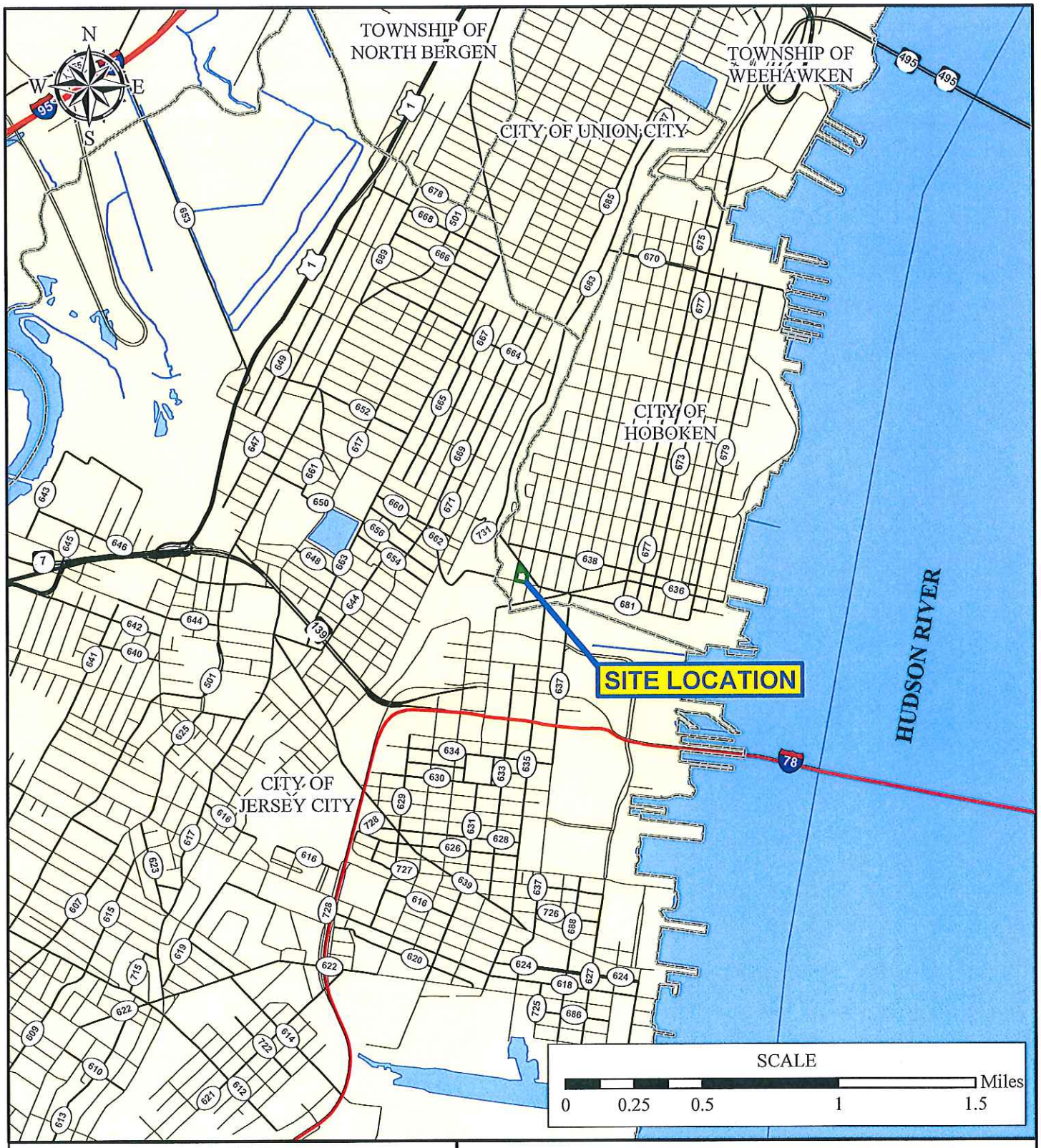
LSRP Signature: Stephen T. Boswell Date:

LSRP Name/Title: Stephen T. Boswell, Ph.D., P.E., LSRP/President, CEO **No Changes Since Last Submittal** ☐

Company Name: Boswell McClave Engineering

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420



LEGEND

- SITE BOUNDARY
- MUNICIPAL BOUNDARY
- WATER BODY
- ARTERIAL STREET
- COUNTY ROAD
- STATE HIGHWAY
- FEDERAL HIGHWAY
- INTERSTATE

SOURCE:

HUDSON COUNTY ROADS, 2010
NJOIT COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJDEP, BGIS, WATER BODIES, 2004

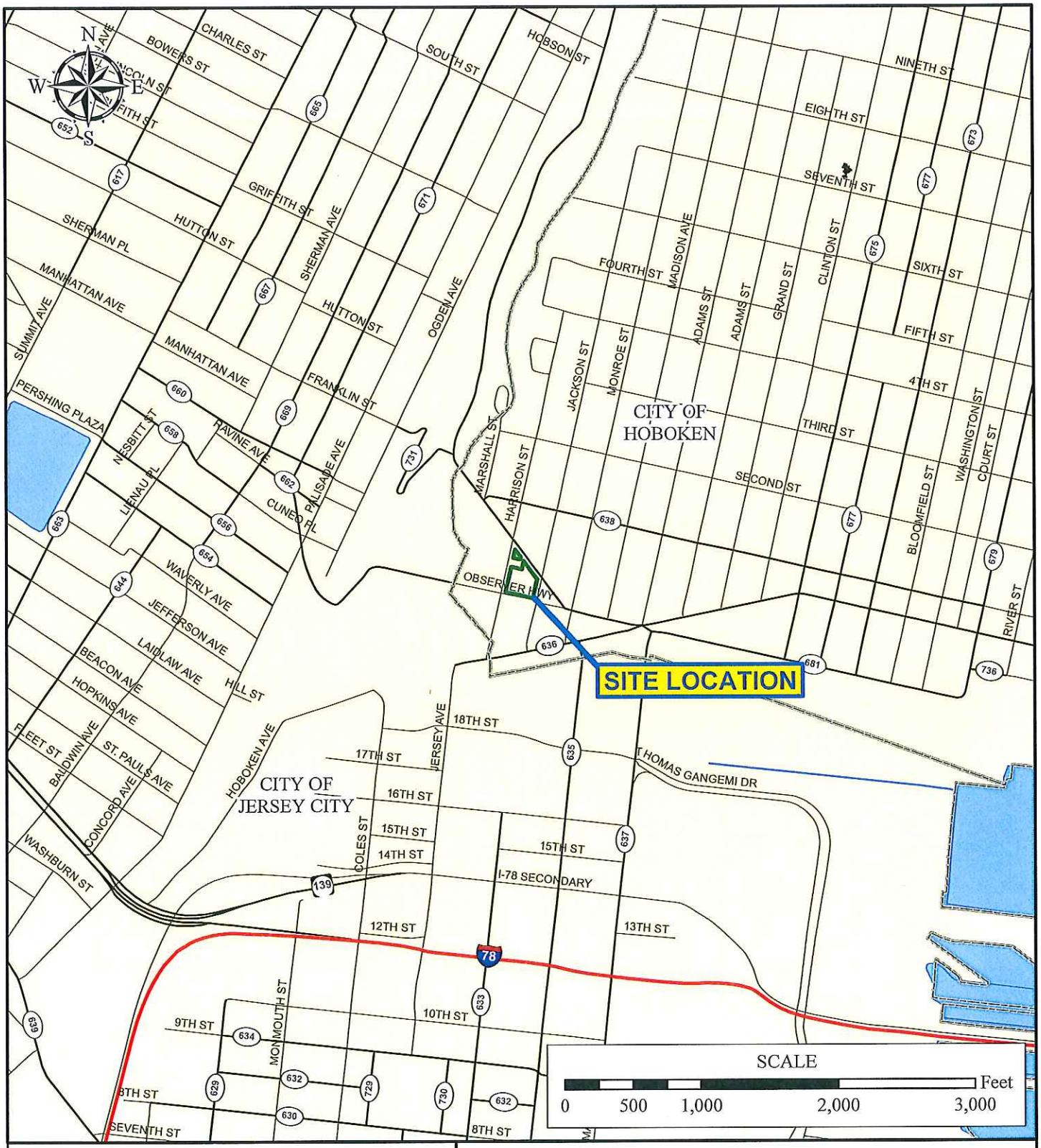
LOCATION (-) MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1/2 MILE DATE: SEPT. 2011	JOB NO. HO-458 FIGURE LOCATION (-)



LEGEND

- SITE BOUNDARY
- MUNICIPAL BOUNDARY
- WATER BODY
- ARTERIAL STREET
- COUNTY ROAD
- STATE HIGHWAY
- FEDERAL HIGHWAY
- INTERSTATE

SOURCE:

HUDSON COUNTY ROADS, 2010
NJOIT COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJDEP, BGIS, WATER BODIES, 2004

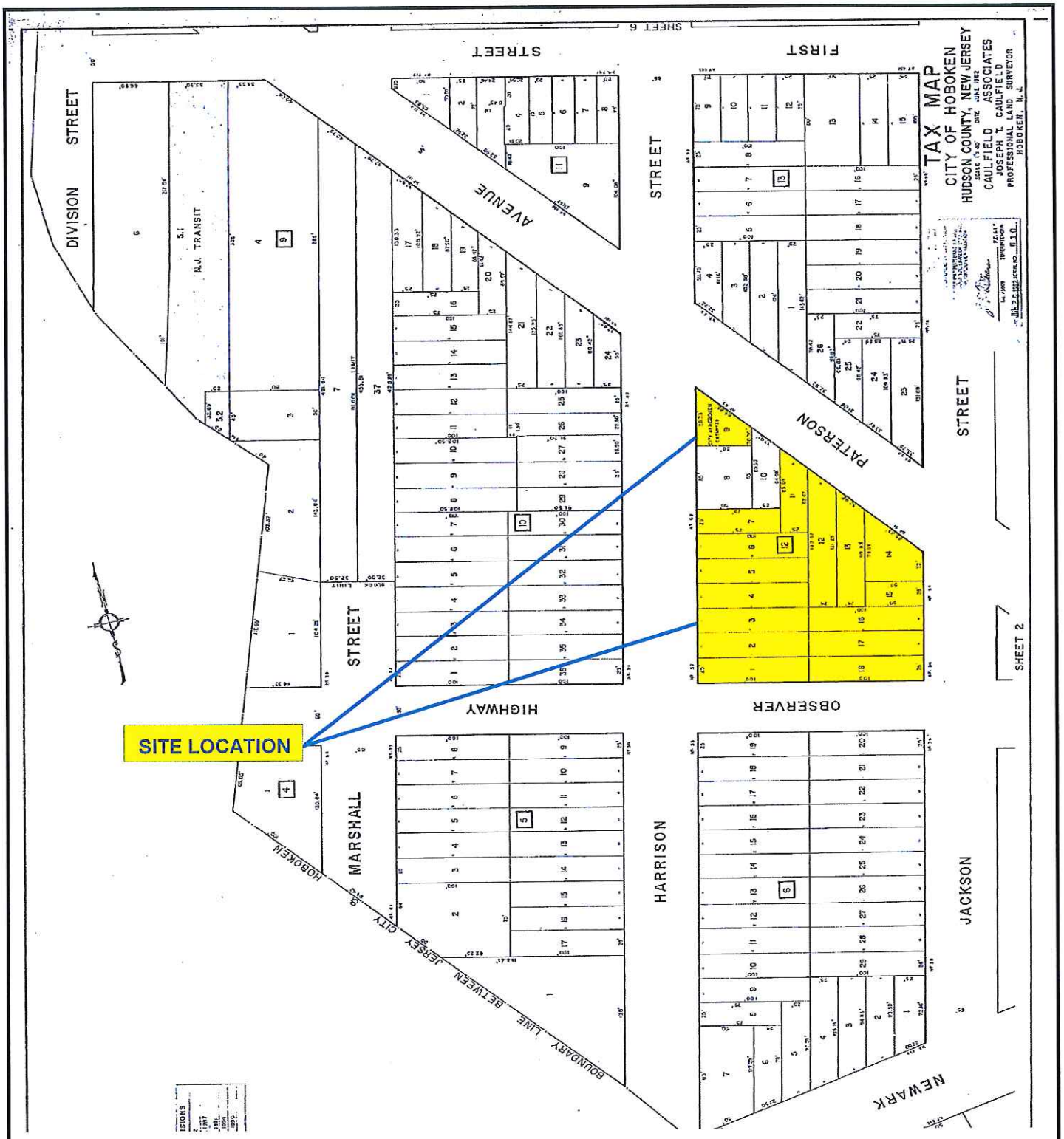
LOCATION (+) MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1,000' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE LOCATION (+)



SOURCE:
NJ PARCEL MAP ONLINE v1.0.4

TAX MAP
BLOCK 12, LOTS 1-18

CITY OF HOBOKEN TAX MAP
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: CEA	DATE: JUNE 2012	TAX

APPENDIX C

United States Geological Survey (USGS) Topographic Quadrangle Map

SITE BOUNDARIES

SOURCE: USGS JERSEY CITY QUADRANGLE TOPOGRAPHIC MAP

NJ STATE PLANE COORDINATES:

EASTING: 619,035
NORTHING: 694,045

U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

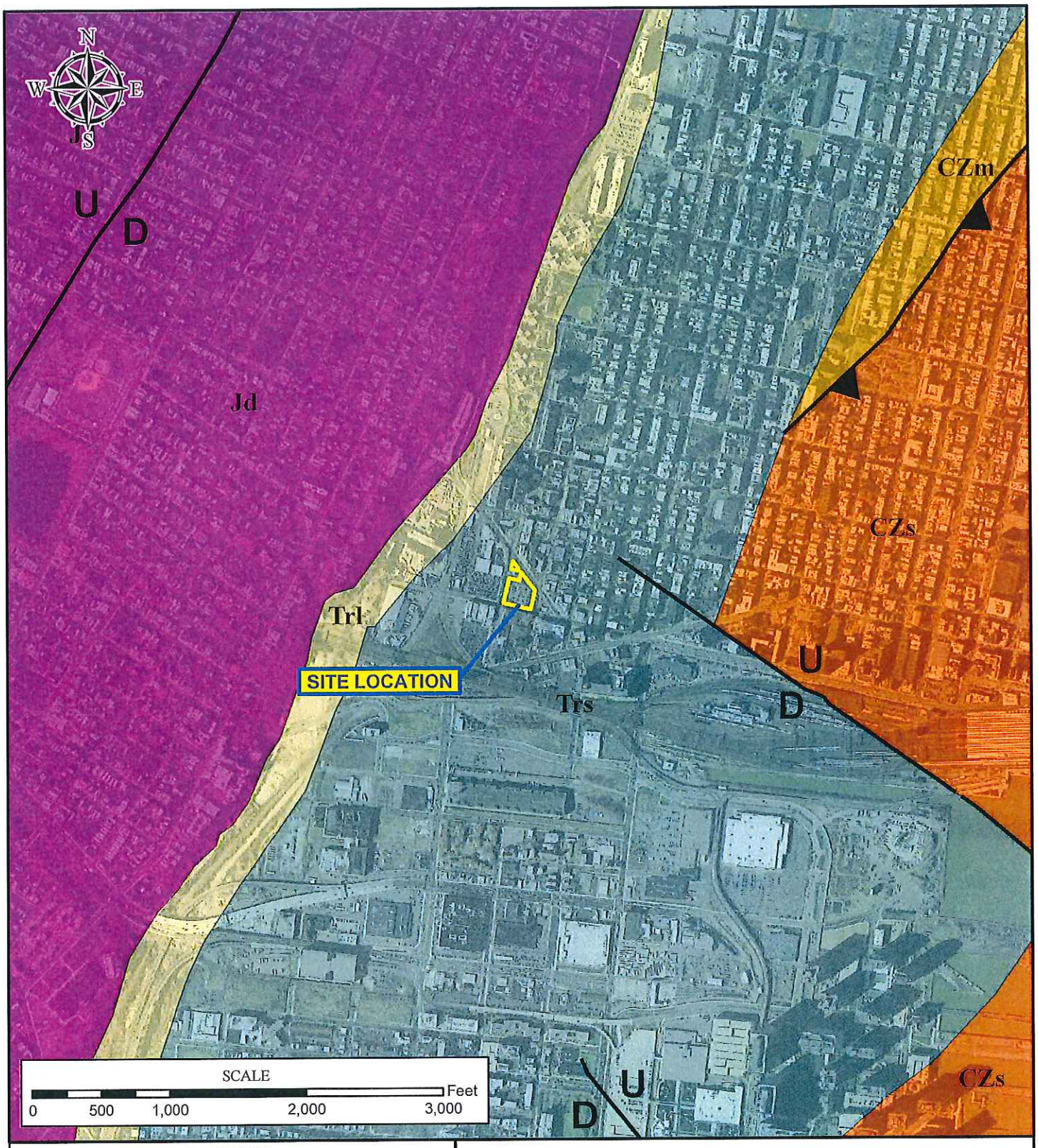
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1,000' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE USGS

APPENDIX D

NJDEP NJ Geological Survey (NJGS) Bedrock Geology Map/ NJDEP NJGS Surficial Geology Map



LEGEND

SITE BOUNDARY	
NORMAL FAULT	
U	UPTHROWN SIDE
D	DOWNTHROWN SIDE
THRUST FAULT	
Jd	Diabase - Jurassic Period
Trl	Lockatong Formation - Triassic Period
Trs	Stockton Formation - Triassic Period
CZm	Manhattan Schist - Cambrian Period
CZs	Serpentinite - Cambrian Period

SOURCE: NJDEP NJGS BEDROCK GEOLOGY OF NEW JERSEY, 2007
NJDEP ORTHOPHOTOGRAPHY (disk 11), 2007

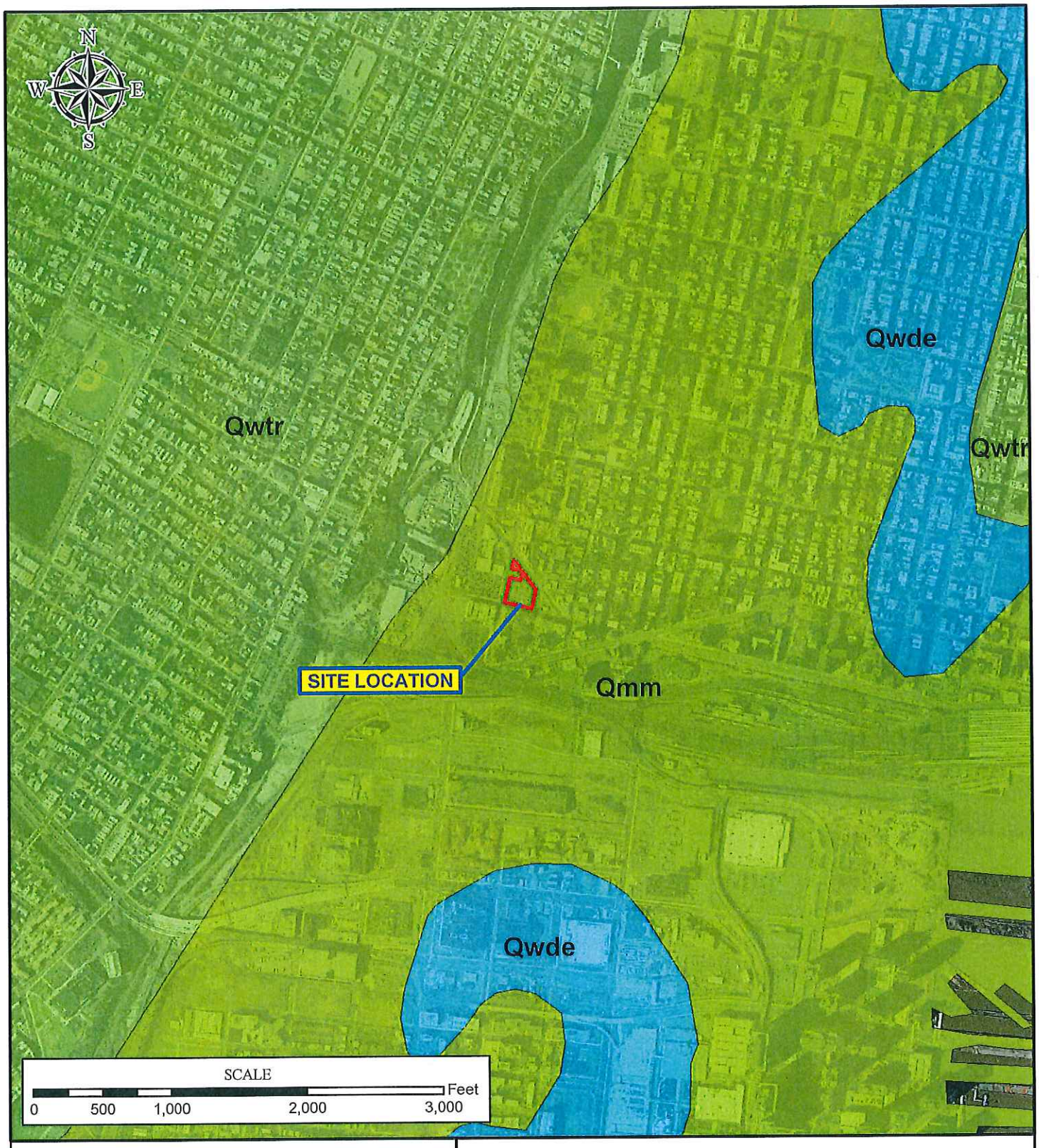
NJ GEOLOGICAL SURVEY BEDROCK GEOLOGY MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: CEA	SCALE: 1" = 1,000' DATE: JUNE 2012	JOB NO. HO-458 FIGURE GEOLOGY



LEGEND

- Site Boundaries
- Qwtr — Rahway Till - Late Pleistocene, Late Wisconsinan
- Qwde — Late Wisconsinan Glacial Delta Deposits - Late Pleistocene, Late Wisconsinan
- Qmm — Salt Marsh and Estuarine Deposits - Holocene

SOURCE: NJDEP NJGS SURFICAL GEOLOGY OF NEW JERSEY, 2004
NJDEP ORTHOPHOTOGRAPHY (disk 11), 2007

NJ GEOLOGICAL SURVEY SURFICIAL GEOLOGY MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: CEA	SCALE: 1" = 1,000' DATE: JUNE 2012	JOB NO. HO-458 FIGURE SURFICIAL GEO

APPENDIX E

Photodocumentation

BOSWELL MCCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

SITE NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
Block 12, Lots 1-7, 9 & 11-18	City of Hoboken, Hudson County, New Jersey	Site Investigation Report	HO-458

Photo No. 1.

Description:
View of southwest portion of Block 12. The majority of the vehicles were moved for the geophysical investigation except for those shown.

Photo No. 2.

Description:
Northern half of Lot 12 some concrete blocks and cobbles visible.

Photo No. 3.

Description:
Thick vegetation at the southern end of Lot 12 limited the geophysical investigation in this area. Only a general survey (magnometer sweep) was performed.

Photo No. 4.

Description:
Soil boring SB-1 was advanced to a depth of 15' below ground surface (bgs) in Lot 18. Historic fill containing concrete, brick and wood was identified from 0' to 5' bgs and dredge material from 5' to 15' bgs.

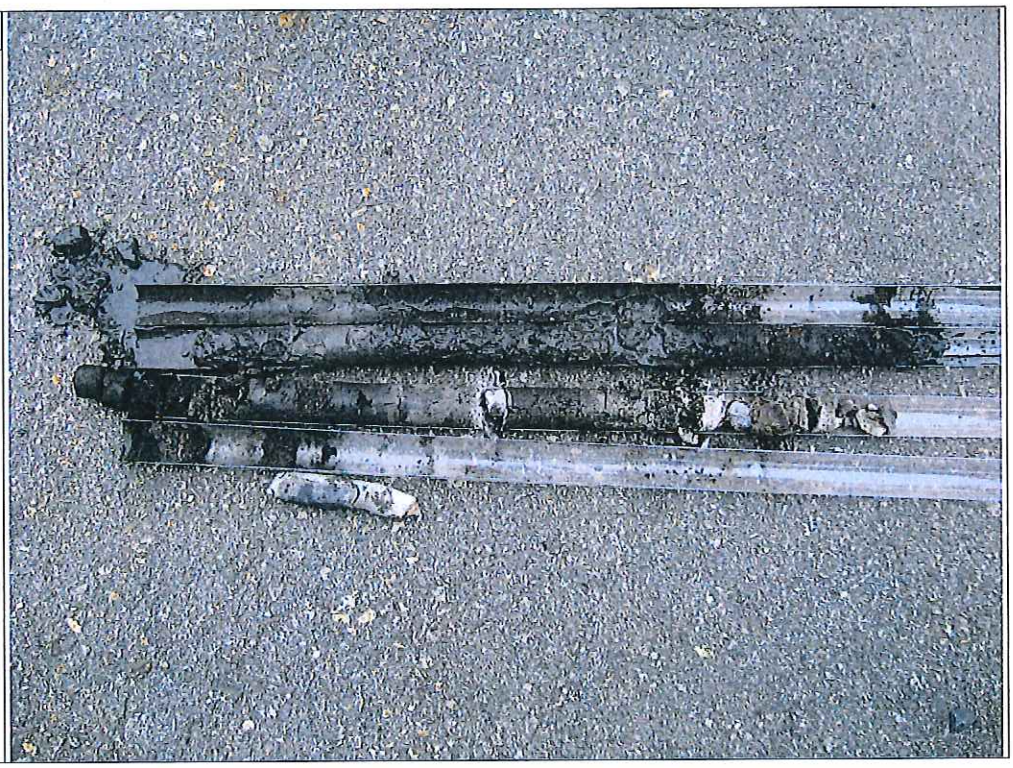


Photo No. 5.

Description:
Soil boring SB-2 was advanced to 10' bgs in Lot 16. Historic fill containing brick, coal and ash was detected from 3' to 8' bgs.

Photo No. 6.

Description:
Soil boring SB-3 was advanced to a depth of 10' bgs in Lot 14 outside of a former building foundation. Historic fill including ground brick, coal, ash, and concrete were observed from 1' to 8' bgs.

Photo No. 7.

Description:
Soil boring SB-3 was advanced to a depth of 5' bgs at a geophysical anomaly inside of a building foundation. Historic fill including crushed brick, mortar, coal and glass were identified from 1' to 5' bgs.

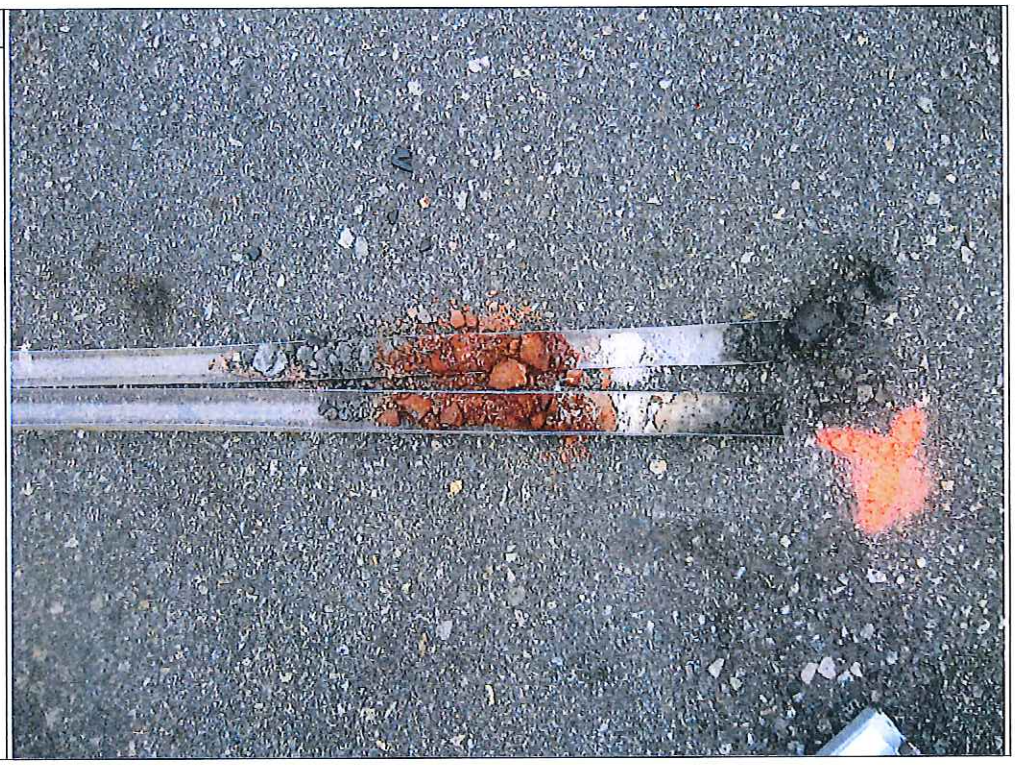


Photo No. 8.

Description:
Soil boring SB-5 was advanced to a depth of 10' bgs in Lot 4. Historic fill including brick and concrete was identified from 2' to 5' bgs.

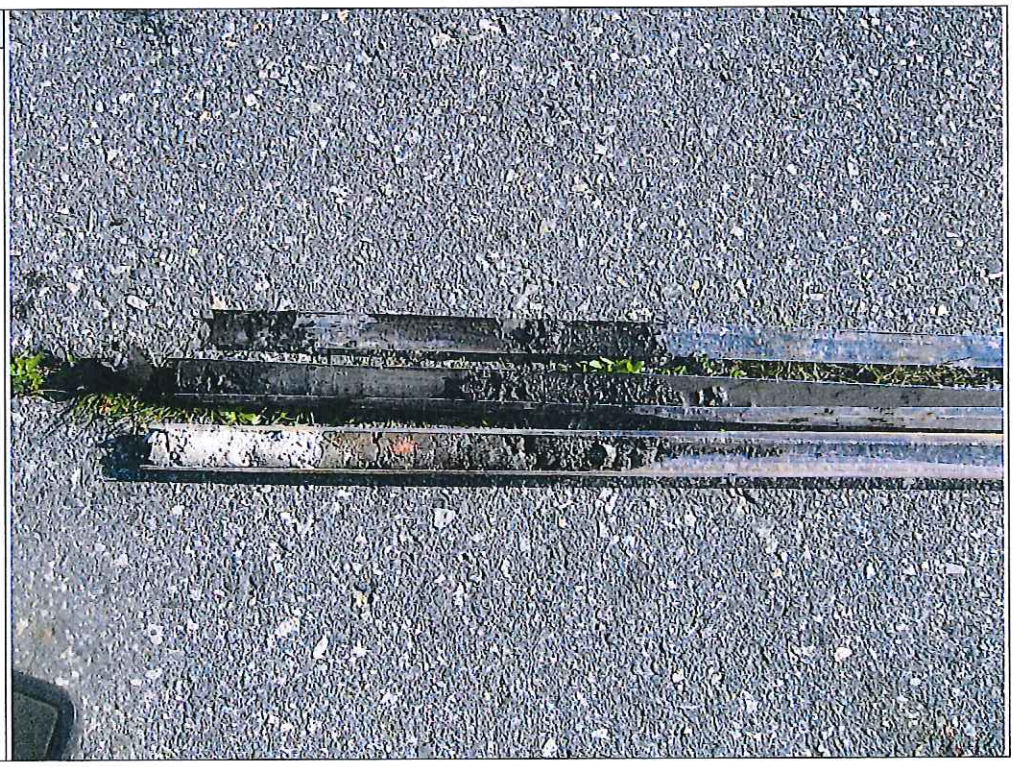


Photo No. 9.

Description:
Soil boring SB-6 was advanced to a depth of 10' bgs in Lot 2. Historic fill including coal, brick, concrete, glass and metal was identified from 1' to 10' bgs.

Photo No. 10.

Description:
Soil Boring SB-7 was advanced to a depth of 10' bgs in the City owned Lot 9. Historic fill including coal, ash and wood was identified from 0' to 4' bgs.

APPENDIX F

Soil Boring Logs

Boring No	SB-1	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	TWP	Construction	15' of slotted 2" diameter PVC Well Point	PID (Background) 0.4
Remarks	Historic fill soil sample SB-1 and duplicate sample SB-11 were collected from 1.5' - 2.0' bgs at 10:00 and 10:05. Groundwater sample TWP-1 and duplicate sample TWP-11 were collected at 5.0' bgs at 10:20 and 10:25.			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'		2" asphalt, concrete, brick, brown silt		
2'		Dark brown silt and some concrete	SB-1/SB-11	
3'		Dark brown clay with rocks		Historic Fill
4'		Brown clay and gravel		
5' ▼		Black clay with some wood		
6'		Black silty clay with small pebbles	TWP-1/ TWP-11	
7'		Black silt and clay with gravel and wood		
8'	0.4	Dense clay (black)		
9'		Clay and silt		
10'				
11'		Very wet black clay and silt with some fine gravel		
12'				
13'				
14'				
15'				
16'		**End of Boring**		
17'				
18'				
19'				
20'				

Boring No	SB-2	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	No sample collected			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	2" asphalt, silt, gravel, clay		
2'				
3'		Silt, gravel, clay, some brick		
4'		Concrete with black clay		Historic Fill
5'		Black to brown clay and coal		
6'		Black silty clay with coal		
7'		Silty clay with ash		
8'		Silty clay with brick and stone		
9' ▼		Sand containing brick, stone, coal		
10'		Brown/green clay		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-3	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	Poor recovery from 5'-10'; Historic fill soil sample SB-3 collected from 4' to 4.5' bgs at 11:30			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	3" asphalt, stone subbase		
2'		Ground brick		Historic Fill
3'				
4'				
5'		Coal mixed with ash and brick	SB-3	
6'		Coal with organics		
7'		Brick and concrete		
8'		Black sandy gravel		
9'		Red-brown silty clay		
10'		Brown silty clay		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-4	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	Boring advanced inside of former building foundation and geophysical anomaly, no sample collected.			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	2" asphalt, gravel		
2'		Crushed brick		Historic Fill
3'				
4'		Mortar mixed with concrete		
5'		Gravel with sand and coal, wood, glass		
6'		**End of Boring**		
7'				
8'				
9'				
10'				
11'				
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-5	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.5
Remarks	No sample collected			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.5	2" asphalt; brown quartz sand with stone		
2'				
3'		Brown quartz sand with stone, some brick		Historic Fill
4'		Brown clay with denatured concrete		
5' ▼				
6'		Dark brown gravel and wood		
7'				
8'		Dark brown clay		
9'				
10'		Gravels and organics		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-6	BORING LOG		Sketch	
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map	
Drilling Contractor	EMA	Date	May 17, 2012		
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel	MF, CC
Well Install	No	Construction	N/A	PID (Background)	0.5
Remarks	Historic fill soil sample SB-6 collected from 9' - 9.5' bgs at 9:30				

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.5	6" asphalt; light gray concrete rubble		
2'		Silty sand with fine ground coal, brick, concrete		Historic Fill
3'				
4'		Tan-brown silty clay		
5' ▼		White quartz sand to brown clay		
6'		Brown silty sand with gravel, coal, and wood		
7'				
8'		Ground brick and gravel		
9'				
10'		Brown to green silty clay with coal, glass, metal	SB-6	
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-7	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel: MF, CC
Well Install	No	Construction	N/A	PID (Background): 0.5
Remarks	Boring advanced inside of Lot 9. Low recovery from 5' to 10'. Historic Fill Soil Sample SB-7 collected from 2.5' to 3.0' interval at 9:45			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.5	6" grass and topsoil; brown silty clay with some coal		Historic Fill
2'				
3'		Brown silty clay with coal and ash and wood	SB-7	
4'		Light brown sandy gravel with tree roots		
5'		Black silty clay		
6'				
7'		Light brown sandy clay		
8' ▼				
9'		Light brown clay		
10'		Loose gravel (diabase)		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

APPENDIX G

Geophysical Survey Report

Infrared Services, Inc.
Established 1977

150 River Road L-4
P.O. Box 485
Montville, NJ 07045
(973) 263-1177 Phone
1-866-204-5913 Fax
request@infraredservicesinc.com

July 5, 2012

Mr. Chris Colabaugh
Boswell Engineering
330 Phillips Ave.
South Hackensack, NJ 07606

Phone: (201) 641-0770
E-mail: ccolabaugh@boswellengineering.com

RE: GEOPHYSICAL SURVEY TO ATTEMPT TO LOCATE AND MARK OUT THE LOCATION OF POSSIBLE UNDERGROUND STORAGE TANKS AND/OR PIPING

Dear Mr. Colabaugh,

The following survey was conducted on May 14 and 17, 2012:

LOCATION: LAZ CAR PARKING LOT
59 PATERSON AVE.
HOBOKEN, NJ

METHOD: GEOPHYSICAL SURVEY – GROUND PENETRATING RADAR AND RADIO DETECTION

A 400 MHZ transducer emits pulsating radar through to the subsurface as it is moved across the surface material. At the interface of subsurface objects, some of the radar is reflected to the surface, picked up by the transducer, processed and printed. Operator conclusions of radar and radio detection results are based on the printed profile and radio signal. Approximate locations of subsurface objects are spray painted on the surface.

Please be advised that the services and resulting interpretations provided by Infrared Services, Inc. shall be performed with our best professional efforts. Because depth of penetration is dependent upon the electrical properties of the material(s) probed and interpretations are opinions based on inference from acquired radar, radio detection, and/or other data, Infrared Services, Inc. does not guarantee the desired penetration depth or accuracy or correctness of interpretations and will not accept liability or responsibility for any loss, damages, or expenses that may be incurred or sustained by any services or interpretations performed by Infrared Services, Inc.

Boswell Engineering
July 5, 2012

SCOPE: TO PROVIDE A GROUND PENETRATING RADAR AND RADIO DETECTION SURVEY TO ATTEMPT TO LOCATE AND MARK OUT THE LOCATION OF POSSIBLE UNDERGROUND STORAGE TANKS AND/OR PIPING.

RESULTS: PARKING LOT AREA:
A SURVEY WAS CONDUCTED WITHIN THE FENCED PARKING LOT. THE SUBSURFACE MATERIAL HAD POOR GPR PENETRATION. THE GPR PENETRATION WAS 1-2 FEET DEEP. THE SUBSURFACE OR BACKFILL MATERIAL MAYBE CONDUCTIVE OR CAUSING REFRACTION.
PIPING WAS LOCATED FROM THE ELECTRIC ACCESS GATE TO AN OVERHEAD ELECTRIC POWER SOURCE ON THE FENCE.
NO OTHER PIPING WAS LOCATED IN THE SURVEY AREA

GRASS ISLAND AREA (OFF PATERSON STREET)
THE GRASS AND TREE COVERED ROADSIDE ISLAND WAS CLEARED OF UNDERGROUND UTILITIES FOR SOIL BORING.

THE SURVEY WAS CONDUCTED AT 3-FOOT GRID PATTERNS. THE MAXIMUM DEPTH OF PENETRATION OF THE GROUND PENETRATING RADAR WAS 1 FEET-2 FEET.

Please do not hesitate to contact me if you have any further questions.

Sincerely,

Gary R. Kayhart
INFRARED SERVICES, INC.

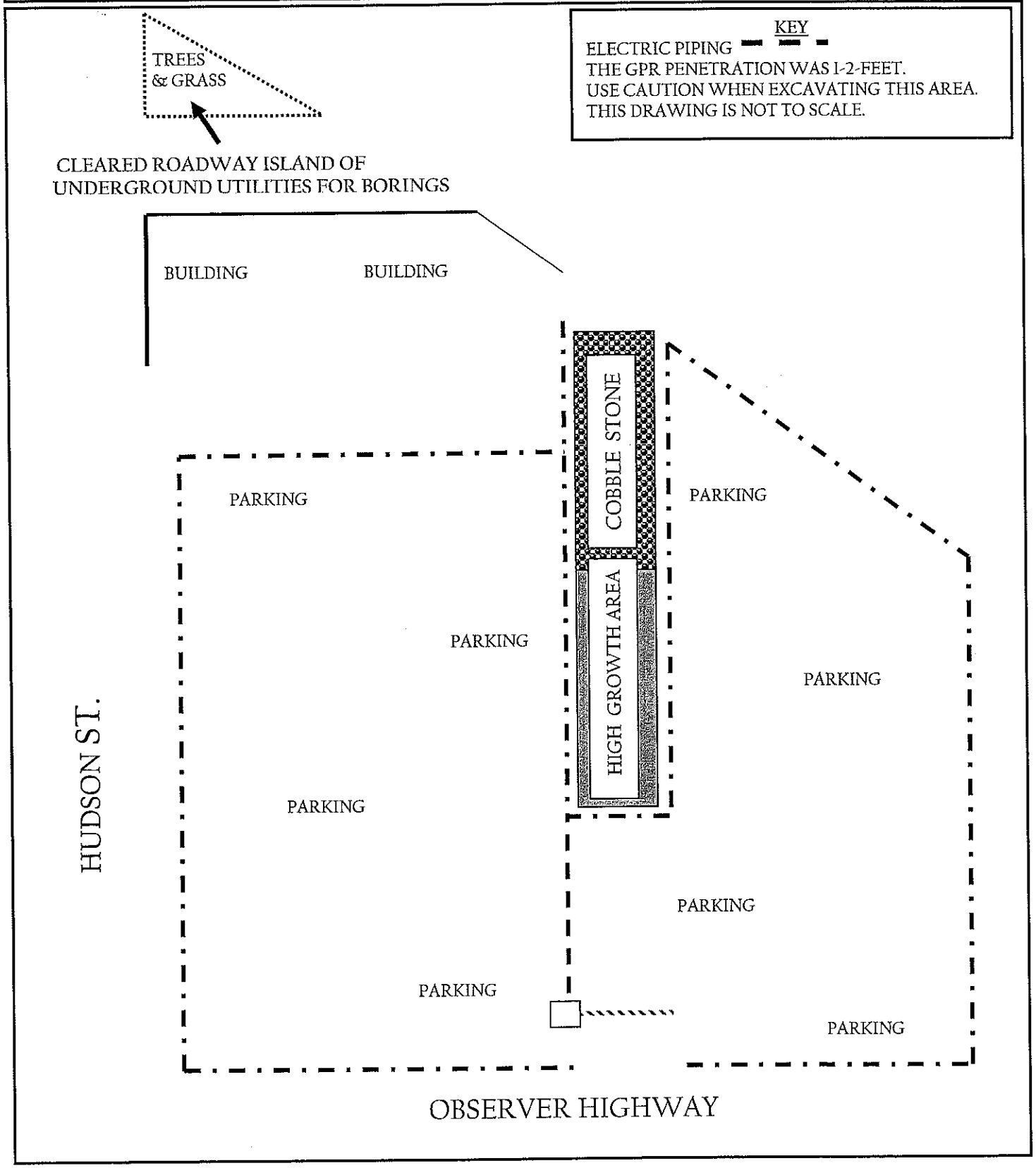
Attachment

PROJECT: BOSWELL ENGINEERING
PARKING LOT
59 PATERSON ROAD
HOBOKEN, NJ

SITE MAP

INFRARED SERVICES INC.
SUITE L-4
150 RIVER ROAD
MONTVILLE, NJ 07045

N



APPENDIX H

Sampling Parameter Summary Table

SAMPLING PARAMETER SUMMARY TABLE

BLOCK 12, LOTS 1-7, 9, AND 11-18
CITY OF HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

Analysis	Method	Matrix	Container	Preservative	Holding Time	No. of Samples
SOIL						
Total Extractable Petroleum Hydrocarbons (EPH) Category-2 Non-Fractionated	SW 846 3545	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	1
TCL Volatile Organic Compounds +15*	SW 846 5035/8260B	Soil	3 x Encore	4° C	48 hours to lab 14 day extract	1
TCL Polycyclic Aromatic Hydrocarbons (PAH)	SW 846 3550B/8270C	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	5 (1)
TCL Semi-Volatile Organic Compounds + 25 *	SW 846 3550B/8270C	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	1
Target Analyte List (TAL) Metals *	SW 846 3050/6010	Soil	1x8 ounce glass	4° C	180 Days	5 (1)
TCL Polychlorinated Biphenyls (PCB) *	SW 846 3545/8082	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	1
GROUNDWATER						
Volatile Organic Compounds (VOA TCL)*	SW 846 8260B	Aqueous	3x40 ml glass	HCl, pH<2 4° C	14 Days	3 (1)(2)
Semi-Volatile Organic Compounds (ABN TCL)*	SW 846 3550B/8270C	Aqueous	2x1,000 ml glass	4° C	7 Days (extract) 40 Days (analyze)	2 (1)
TAL Metals*	SW 846 3050/6010	Aqueous	1x500 ml poly	HNO_3 to PH<2 4° C	6 Months	2 (1)
Polychlorinated Biphenyls (PCB) *	SW 846 8082	Aqueous	2x1,000 ml glass	4° C	7 Days (extract) 40 Days (analyze)	2 (1)

NOTES:

(1) = Includes one (1) QA/QC duplicate sample
(2) = Includes one (1) QA/QC trip blank
TAL = Target Analyte List Metals
TCL = Target Compound List
ABN = Acid and Base Neutral extractables
* = Included with full TCL+/TAL analysis
SW 846 = Test Methods for Evaluating Solid Waste, 3rd Edition

APPENDIX I

Analytical Results Summary Tables

ANALYTICAL RESULT SUMMARY TABLE

SOIL SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

Sample Number	SB-1	SB-3	SB-6	SB-7			
Lab ID	JB6521-4	JB6521-6	JB6934-1 & JB6934-1A	JB6934-2, JB6934-2A & JB6934-2R			
Sampling Date	5/14/2012	5/14/2012	5/17/2012	5/17/2012			
Matrix	Soil	Soil	Soil	Soil			
Depth	1.5'-2.0'	4.0'-4.5'	9.0'-9.5'	2.5'-3.0'			
PID	0.4 ppm	0.4 ppm	0.5 ppm	0.5 ppm			
Sampler	MF, CC	MF, CC	MF, CC	MF, CC			
Sampling Time	10:00	11:30	9:30	9:45			
Units	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	NJDEP Soil Remediation Standards		
Analytical Parameter							
NJ Category-2 Non-Fractionated Extractable Petroleum Hydrocarbons (EPH)					RDC	NRDC	IGW
EPH (C9-C28)	~	~	~	203	-	-	-
EPH (>C28-C40)	~	~	~	220			
Total EPH (C9-C40)	~	~	~	423	1,700 / 5,100 / 8,000*		
Volatile Organic Compounds (TCL VOA)							
Benzene	~	~	~	0.0013 J	2	5	0.005
Toluene	~	~	~	0.00067 J	6,300	91,000	4
Tentitively Identified Compounds (TICs) Volatiles	~	~	~	ND	-	-	-
Semi-volatile Organic Compounds (TCL ABN)**							
Acenaphthene	4.12	0.0503	0.0471	ND	3,400	37,000	74
Acenaphthylene	9.38	0.0855	ND	ND	-	300,000	-
Anthracene	26.5	0.186	0.119	0.0217 J	17,000	30,000	1,500
Benzo(a)anthracene	**56.8**	**0.696**	0.25	0.0721	0.6	2	0.5
Benzo(a)pyrene	**51.7**	**0.615**	**0.269**	0.0693	0.2	0.2	0.2
Benzo(b)fluoranthene	**59.2**	**0.801**	0.224	0.0886	0.6	2	2
Benzo(g,h,i)perylene	22.7	0.364	0.135	0.084	380,000	30,000	-
Benzo(k)fluoranthene	**25**	0.344	0.172	0.0641	6	23	16
Carbazole	~	~	~	0.0480 J	24	96	-
Chrysene	**52.2**	0.705	0.225	0.0927	62	230	52
Dibenzo(a,h)anthracene	**9.88**	0.129	0.0633	0.0268 J	0.2	0.2	0.5
Diethyl phthalate	~	~	~	0.0808 J	49,000	550,000	57
bis(2-Ethylhexyl)phthalate	~	~	~	0.142	35	140	790
Fluoranthene	114	1.59	0.389	0.134	2,300	24,000	840
Fluorene	14.8	0.04	0.0481	ND	2,300	24,000	110
Indeno(1,2,3-cd)pyrene	**24.3**	0.325	0.139	0.0585	0.6	2	5
2-Methylnaphthalene	~	~	~	0.0763 J	230	2,400	5
Naphthalene	3.35	0.0208 J	0.0150 J	ND	31	340	0.2
Phenanthrene	73.9	0.834	0.345	0.0892	-	300,000	-
Pyrene	85.9	1.64	0.395	0.152	1,700	18,000	550
Tentitively Identified Compounds (TICs) Semi-Volatiles	~	~	~	1.45 J	-	-	-
TAL Metals							
Aluminum	**7,820**	**6,440**	**9,840**	**5,620**	78,000	-	3,900
Antimony	**12.5**	<2.4	<2.5	<2.2	31	450	6
Arsenic	**43**	10.2	7.2	18	19	19	19
Barium	346	108	95	204	16,000	59,000	1,300
Beryllium	0.4	0.33	**0.81**	**0.72**	16	140	0.5
Cadmium	**1.7**	<0.60	<0.61	**2.7**	78	78	1
Calcium	10,800	12,400	10,200	5,040	-	-	-
Chromium (total)	31	8.7	22.5	39.7	-	-	-
Cobalt	10.3	<6.0	7.1	<5.6	1,600	590	59
Copper	197	45.6	32.9	90.6	3,100	45,000	7,300
Iron	24,400	10,000	17,900	21,300	-	-	-
Lead	**866**	**157**	**200**	**678**	400	800	59
Magnesium	5,360	1,140	4,530	1,500	-	-	-
Manganese	**181**	**129**	**501**	**158**	11,000	5,900	42
Mercury	**9**	**0.88**	**0.8**	**0.38**	23	65	0.1
Nickel	**51.7**	6.1	22.3	**36.4**	1,600	23,000	31
Potassium	<1,500	<1,200	2,370	<1,100	-	-	-
Selenium	<3.1	<2.4	<2.5	<2.2	390	5,700	7
Silver	**4.4**	<0.60	<0.61	0.91	390	5,700	1
Sodium	<1,500	<1,200	<1,200	<1,100	-	-	-
Thallium	<1.5	<1.2	<1.2	<1.1	5	79	3
Vanadium	27.8	11.7	28.7	43.6	78	1,100	-
Zinc	**1,880**	87.7	83.3	**1,760**	23,000	110,000	600
Polyclorinated Biphenyls (TCL PCB)							
Total PCB	~	~	~	ND	0.2	1	0.2

NOTES:

RDC = NJDEP Residential Direct Contact Soil Remediation Standard
NRDC = NJDEP Non-Residential Direct Contact Soil Remediation Standard
IGW = Impact to Groundwater Soil Remediation Standard
bold = Exceeds NJDEP RDCSRS
bold = Exceeds NJDEP IGWSSL
J = Estimated Value
PID = Photoionization Detector - background 0.4-0.5 ppm
- = Remediation Standard Not Established
ND = Not detected
mg/kg = milligrams per kilogram = ppm = parts per million
~ = Not analyzed pursuant to NJDEP Historic Fill Guidance Document
< = Value shown is less than laboratory RL
* ecological concern/soil remediation standard/residual product limits
** PAHs are a subset of TCL ABN

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ANALYTICAL RESULT SUMMARY TABLE

TEMPORARY WELL POINT GROUNDWATER SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

Sample Number	TWP-1		
Lab ID	JB6521-1		
Matrix	Aqueous		
PID	0 ppm		
Sampler	MF, CC		
Sampling Date	5/14/2012		
Sampling Time	10:20		
Units	µg/kg (ppm)		
Analytical Parameter		**NJDEP GQC +**	**NJDEP VI GSL ++**
Volatile Organic Compounds (TCL VOA+)			
Carbon disulfide	0.32 J	700	710
Chloroethane	1.3	-	4
Methyl-Tertiary-Butyl-Ether (MTBE)	0.58 J	70	78
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	-
Semi-volatile Organic Compounds (TCL ABN+)			
Acenaphthene	0.599	400	
Acenaphthylene	0.117	100	
Anthracene	0.274	2,000	
Benzo(a)anthracene	**0.683**	0.1	
Benzo (a) pyrene	**0.580**	0.1	
Benzo(b)fluoranthene	**0.608**	0.2	
Benzo(g,h,i)perylene	0.493	100	
Benzo(k)fluoranthene	0.42	0.5	
bis(2-Ethylhexyl)phthalate	**22**	3	
Chrysene	0.61	5	
Dibenz(a,h)anthracene	0.188	0.3	
Fluoranthene	0.953	300	
Fluorene	0.201	300	
Indeno(1,2,3-cd)pyrene	**0.428**	0.2	
Naphthalene	ND	300	
Phenanthrene	0.88	100	
Pyrene	1.01	200	
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	
TAL Metals			
Aluminum	**8,650**	200	
Antimony	**14.9**	6	
Arsenic	**24.5**	3	
Barium	521	6,000	
Beryllium	<1.0	1	
Cadmium	<3.0	4	
Calcium	140,000	-	
Chromium (total)	22.3	70	
Cobalt	<50	-	
Copper	578	1,300	
Iron	**39,200**	300	
Lead	**738**	5	
Magnesium	35,400	-	
Manganese	**1,100**	50	
Mercury	**2.6**	2	
Nickel	20.8	100	
Potassium	18,700	-	
Selenium	<10	40	
Silver	<10	40	
Sodium	**198,000**	50,000	
Thallium	<2.0	2	
Vanadium	<50	-	
Zinc	387	2,000	
Polychlorinated Biphenyls (TCL PCB)			
Total PCBs	ND	0.5	

NOTES:

ND = Undetected at Laboratory Reporting Limit (RL)
J = Indicates an estimated value
+ = NJDEP Class II-A Aquifer Groundwater Quality Criteria
++ = NJDEP Generic Vapor Intrusion Groundwater Screening Level
* = Carcinogenic Synthetic Organic Compounds - 5 ppb each/25 ppb total
** = Non-Carcinogenic Synthetic Organic Compounds - 100 ppb each/500 ppb total
PID = Photoionization Detector
ppm = parts per million
µg/L = micrograms per liter = parts per billion = ppb
TCL = Target Compound List
TAL = Target Analyte List
< = Value shown is less than laboratory RL
bold = Exceeds NJDEP Class II-A Groundwater Quality Criteria (GQC)

APPENDIX J

Quality Assurance/Quality Control (QA/QC) Summary Tables

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SUMMARY TABLE

SOIL SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

	Duplicate Sample	
Sample Number	**SB-1**	**SB-11**
Lab ID	JB6521-4	JB6521-5
Sampling Date	5/14/2012	5/14/2012
Matrix	Soil	Soil
Depth	1.5'-2.0'	1.5'-2.0'
PID	0.4 ppm	0.4 ppm
Sampler	MF, CC	MF, CC
Sampling Time	10:00	10:05
Units	mg/kg (ppm)	mg/kg (ppm)
Analytical Parameter		
Semi-volatile Organic Compounds (TCL ABN)		
Acenaphthene	4.12	0.0367 J
Acenaphthylene	9.38	0.0323 J
Anthracene	26.5	0.0824
Benzo(a)anthracene	56.8	0.279
Benzo(a)pyrene	51.7	0.321
Benzo(b)fluoranthene	59.2	0.331
Benzo(g,h,i)perylene	22.7	0.229
Benzo(k)fluoranthene	25	0.113
Chrysene	52.2	0.32
Dibenzo(a,h)anthracene	9.88	0.0655
Fluoranthene	114	0.487
Fluorene	14.8	0.0387 J
Indeno(1,2,3-cd)pyrene	24.3	0.167
Naphthalene	3.35	0.0345 J
Phenanthrene	73.9	0.366
Pyrene	85.9	0.414
TAL Metals		
Aluminum	7,820	5,020
Antimony	12.5	4.4
Arsenic	43	32.9
Barium	346	143
Beryllium	0.4	0.35
Cadmium	1.7	<0.81
Calcium	10,800	40,500
Chromium (total)	31	15.5
Cobalt	10.3	11.7
Copper	197	761
Iron	24,400	41,300
Lead	866	516
Magnesium	5,360	1,660
Manganese	181	233
Mercury	9	3.9
Nickel	51.7	24.5
Potassium	<1,500	<1,600
Selenium	<3.1	5
Silver	4.4	1.9
Sodium	<1,500	<1,600
Thallium	<1.5	<1.6
Vanadium	27.8	19.1
Zinc	1,880	492

NOTES:

J = Estimated Value
PID = Photoionization Detector
mg/kg = milligrams per kilogram = ppm = parts per million
< = Value shown is less than laboratory RL

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SUMMARY TABLE

TEMPORARY WELL POINT GROUNDWATER SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

	Duplicate Samples		
Sample Number	**TWP-1**	**TWP-11**	**TRIP BLANK**
Lab ID	JB6521-1	JB6521-2	JB6521-3
Matrix	Aqueous	Aqueous	DI Water
PID	0 ppm	0 ppm	0 ppm
Sampler	MF, CC	MF, CC	MF, CC
Sampling Date	5/14/2012	5/14/2012	5/14/2012
Sampling Time	10:20	10:25	10:25
Units	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)
Analytical Parameter			
Volatile Organic Compounds (TCL VOA+)			
Carbon disulfide	0.32 J	0.28 J	ND
Chloroethane	1.3	1.4	ND
Methyl-Tertiary-Butyl-Ether (MTBE)	0.58 J	0.53 J	ND
Tentatively Identified Compounds (TICs)	ND	ND	ND
Semi-volatile Organic Compounds (TCL ABN+)			
Acenaphthene	0.599	0.662	
Acenaphthylene	0.117	0.132	
Anthracene	0.274	0.327	
Benzo(a)anthracene	0.683	0.805	
Benzo (a) pyrene	0.580	0.679	
Benzo(b)fluoranthene	0.608	0.701	
Benzo(g,h,i)perylene	0.493	0.567	
Benzo(k)fluoranthene	0.420	0.497	
bis(2-Ethylhexyl)phthalate	22	ND	
Chrysene	0.61	0.707	
Dibenz(a,h)anthracene	0.188	0.22	
Fluoranthene	0.953	1.09	
Fluorene	0.201	0.221	
Indeno(1,2,3-cd)pyrene	0.428	0.498	
Naphthalene	ND	0.292	
Phenanthrene	0.88	1.06	
Pyrene	1.01	1.19	
Tentatively Identified Compounds (TICs)	ND	ND	
TAL Metals			
Aluminum	8,650	10,500	
Antimony	14.9	20.3	
Arsenic	24.5	33.5	
Barium	521	600	
Beryllium	<1.0	1	
Cadmium	<3.0	<3.0	
Calcium	140,000	142,000	
Chromium (total)	22.3	28.1	
Cobalt	<50	<50	
Copper	578	772	
Iron	39,200	47,900	
Lead	738	976	
Magnesium	35,400	35,700	
Manganese	1,100	1,160	
Mercury	2.6	2.9	
Nickel	20.8	26.7	
Potassium	18,700	18,800	
Selenium	<10	<10	
Silver	<10	<10	
Sodium	198,000	197,000	
Thallium	<2.0	<2.0	
Vanadium	<50	<50	
Zinc	387	495	
Polychlorinated Biphenyls (TCL PCB)			
Total PCBs	ND	ND	

NOTES:

ND = Undetected at Laboratory Reporting Limit (RL)
J = Indicates an estimated value
µg/L = micrograms per liter = parts per billion = ppb
TAL = Target Analyte List
< = Value shown is less than laboratory RL

APPENDIX K

Estimated Cost Summary Table

ESTIMATED COST SUMMARY

BLOCK 12, LOTS 1-7, 9, AND 11-18
HOBOKEN, NEW JERSEY

Task No.	TASK DESCRIPTION	CONSULTANT/CONTRACTOR	WORK DESCRIPTION	ESTIMATED COST	
1	Preliminary Assessment	Boswell McClave Engineering	Consulting/Oversight & Report Preparation	$	7,500.00
		FirstSearch Technologies, Corp.	Environmental Database, Historic Mapping, Aerials, Etc.	$	1,300.00
		Accurate Abstracts	Chain of Title Search	$	4,102.95
		Karren Farrel	Industrial Directory Search	$	400.00
			Subtotal	***$***	***13,302.95***
2	Site Investigation	Boswell McClave Engineering	Consulting/Oversight & Report Preparation/Soil & Groundwater Sampling	$	13,500.00
		Pine Environmental	Sampling Equipment Rental	$	27.00
		AccuTest Laboratories	Laboratory Analysis of Soil and Groundwater	$	4,883.00
		Environmental Management Associates, Inc.	Soil Borings and Well Point Installation	$	3,000.00
		Infrared Services, Inc.	Geophysical Survey	$	1,773.00
			Subtotal	***$***	***23,183.00***

ESTIMATED TOTAL:	**$**	**36,500.00**

APPENDIX L

Qualifications

BOSWELL
ENGINEERING

FRANK J. ROSSI, LSRP
Environmental Science Department Head

HIGHLIGHTS:

- Project Manager for the PA/SIs of numerous several hundred-acre facilities.
- Extensive turn-key experience from Phase I ESAs through a project's investigation and remediation.

EDUCATION:

MS, Chemical Engineering, New Jersey Institute of Technology
BS, Chemistry, Fairleigh Dickinson University

PROFESSIONAL REGISTRATIONS:

NJDEP Licensed Site Remediation Professional

CERTIFICATIONS:

OSHA 40-Hour HAZMAT & 8-Hour Annual Refresher
Confined Space Entry
AHERA Asbestos Inspector/Management Planner
EPA/HUD-Certified Lead Inspector
NJDEP Licensed for UST – Installation, Testing, Closure & Subsurface Evaluation

RELEVANT EXPERIENCE:

Mr. Rossi has over 32-years of experience as a project manager/senior environmental/chemical engineer. He has a strong diverse background in chemical, civil and environmental engineering. Mr. Rossi also has extensive hands-on experience in all types of field applications, including but not limited to, **Phase I Preliminary Assessments (PA), Phase II Site Investigations (SI)**, underground storage tank (UST) removals and installations, remedial investigations/feasibility studies (RI/FS), in-situ remediation systems and groundwater fate and transport modeling.

His specific experience with **Phase I Preliminary Assessment** projects includes:

- Project manager for the **PA/SI** of Greystone Psychiatric Hospital in Morris Plains New Jersey. Performed a through and detailed assessment of this 900-acre, 125-year old facility. Work included a thorough inspection of over 50 buildings, some currently in use and others abandoned for decades. Many areas of environmental concern (AOC) were identified including numerous underground storage tanks (UST), 55-gallon drum and electrical transformer disposal areas, asbestos and lead based paint and a forgotten manufactured gas plant (MGP). Following several weeks of fieldwork authored a comprehensive PA/SI Report detailing the facility's AOCs.

- Project manager for the **PA/SI** of the Fairleigh Dickinson University, Rutherford, NJ campus. Prior to the property's sale, performed a detailed **PA/SI** of this 11.5-acre college campus comprising 13 buildings housing offices, auditoriums, classrooms, laboratories and residence halls. Prepared a comprehensive **SI** Report detailing sampling at each of the Site's nine (9) USTs in accordance with the NJDEP's Technical Requirements.

- Project manager for the **PA/SI** and emergency remedial action at the Garden State Industrial Park warehouse complex. Performed and authored a detailed **PA** report; identified four (4) previously undocumented USTs through the use of ground penetrating radar (GPR); conducted the emergency removal of the four (4) leaking USTs in close proximity to facility and municipal production wells; performed **SI** following tank removal; field designed contamination interceptor systems utilizing geosynthetics.

- Project manager for the **SI** of an active gasoline service station in Rochelle Park NJ. Performed subsurface investigations, monitoring well installation and gauging, soil vapor point installation and sampling and low flow groundwater sampling. Interpreted all laboratory data and prepared Remedial Action Progress Reports for submission to the NJDEP. Provided operation and maintenance of an on-site oil water separator and groundwater air stripper. Delineated on-site/off-site volatile organic contaminant (VOC) contamination and provided hydraulic control of the site's VOC plume.

BOSWELL
ENGINEERING

CHRIS EDWARD ARNTZ, P.E., P.P., LSRP
Senior Environmental Project Engineer

EDUCATION:

MS, Geoenvironmental Engineering, New Jersey Institute of Technology
BS, Civil Engineering, New Jersey Institute of Technology
AS, Mathematics/AA, Liberal Arts, Raritan Valley Community College

PROFESSIONAL REGISTRATION:

Professional Engineer – New Jersey, New York, New Hampshire
Professional Planner – New Jersey
NJDEP Licensed Site Remediation Professional

CERTIFICATIONS:

OSHA 40-Hour Hazardous Waste Site & 8-Hour Site Supervisor
AHERA Asbestos Inspector/Management Planner
NJDEP Licensed for UST – Installation, Testing, Closure and Subsurface Evaluation
Confined Space Entry

HIGHLIGHTS:

- Extensive experience with both real estate Phase I Assessments and NJDEP Preliminary Assessments.
- Prepared Preliminary Assessments and Site Investigations for projects ranging in size from single-family residences to those encompassing several hundred acres.

RELEVANT EXPERIENCE:

Mr. Arntz has over 19 years of diverse experience in civil and environmental engineering. He has performed numerous **Preliminary Assessments (PA) and Site Investigations (SI)**, remedial investigations and remediations. He has provided design, technical, logistical and administrative support at hazardous waste sites to both public and private clients, as well as program support to the U.S. Environmental Protection Agency in support of the Superfund program.

His specific experience with **PA** and **SI** projects includes:

- Project engineer for the **PA/SI** of Greystone Psychiatric Hospital in Morris Plains New Jersey. Performed a through and detailed assessment of this 900-acre, 125-year old facility. Work included a thorough inspection of over 50 buildings, some currently in use and others abandoned for decades. Many areas of environmental concern (AOC) were identified including numerous underground storage tanks (UST), 55-gallon drum and electrical transformer disposal areas, asbestos and lead based paint and a forgotten manufactured gas plant (MGP). Following several weeks of fieldwork authored a comprehensive PA/SI Report detailing the facility's AOCs.
- Project engineer for the **PA/SI** of a former eyeglass frame manufacturer in Newark, NJ. Performed a comprehensive investigation in accordance with the NJDEP's Industrial Site Recovery Act (ISRA) identifying both documented and undocumented USTs through a geophysical investigation, a former drainage system contaminated with chlorinated organic solvents, and floor drains whose integrity was compromised by acids spilled during the company's manufacturing processes.
- Project engineer for the **PA/SI** of the Fairleigh Dickinson University, Rutherford, NJ campus. Prior to the property's sale, performed a detailed **PA/SI** of this 11.5-acre college campus comprising 13 buildings housing offices, auditoriums, classrooms, laboratories and residence halls. Prepared a comprehensive **SI** Report detailing sampling at each of the Site's nine (9) USTs in accordance with the NJDEP's Technical Requirements.
- Project engineer for the **PA/SI** and emergency remedial action at the Garden State Industrial Park warehouse complex in Wyckoff, NJ. Performed and authored a detailed **PA** report, identifying four (4) previously undocumented and leaking USTs using ground penetrating radar (GPR).
- Project engineer for the remediation/demolition of Witco Chemical, a 100-year old former fatty acid manufacturing plant adjacent to the Passaic Valley Sewerage Commissioners (PVSC) plant in Newark, New Jersey. Prior to the 17-acre site's acquisition by the PVSC, reviewed all previous ISRA reporting by the property's former owner. During the demolition and remediation provided professional oversight for the removal of all hazardous materials from the site, arranged and coordinated the transportation and disposal of over 140-tons of fatty acid residual waste from beneath the building floor slabs. The project subsequently received a Distinguished Service Award from the Consulting Engineers Council of New Jersey.

BOSWELL
ENGINEERING

MARC PAUL FRESCHI, E.I.T.
Environmental Engineer

HIGHLIGHTS:

- Over 7-years experience in site investigation and remediation projects.

EDUCATION:

BS, Environmental Engineering, New Jersey Institute of Technology

PROFESSIONAL REGISTRATION:

Engineer-In-Training (EIT)

CERTIFICATIONS:

OSHA 40-Hour Hazardous Waste Site Operations
OSHA 10-Hour Construction Safety
NJDEP Licensed for UST – Subsurface Evaluation
Confined Space Entry

RELEVANT EXPERIENCE:

Mr. Freschi has over 7-years of experience in civil and environmental engineering. He has participated in a wide variety of Site and Remedial Investigations (SI/RI), Remedial Actions (RA) and underground storage tank (UST) removals completed in accordance with the New Jersey Department of Environmental Protection's (NJDEP) Technical Requirements. Mr. Freschi has also prepared SI/RI Reports, Remedial Action Workplans (RAW), bid documents and specifications and provided construction management and resident engineering for soil/groundwater remediation and building demolition.

His specific project experience includes:

- Performed the groundwater RI of petroleum contaminants at the Borough of Fairview Department of Public Works (DPW) following a UST removal. Work included providing geologic oversight during monitoring well installation; obtaining the requisite access agreements from neighboring property owners, continuing the horizontal/vertical delineation of groundwater contamination (both on and off-site); and performed detailed baseline ecological and receptor evaluations (well canvas & survey, storm sewer, etc.) in accordance with the NJDEP's Technical Requirements.

- Performed the soil RI and RA at the Borough of Paramus Municipal Pool. Work included establishing a 50' x 50' grid across the entire 4-acre property and performing soil subsurface evaluation delineating the horizontal/vertical extent of soil contamination in accordance with NJDEP requirements. Following contaminant delineation, prepared detailed plans and specifications for the removal of over 9,000-tons of polychlorinated biphenyl (PCB) and pesticide (chlordane and dieldrin) contaminated soil. The work was performed in the winter of 2009 and "fast-tracked" in order to open the pool for the summer season. The project was successfully completed and the NJDEP issued a No Further Action (NFA) letter only days before the pool's opening on Memorial Day weekend.

- Performed a comprehensive SI, UST removal and soil/groundwater RI at the Borough of Haledon's former DPW site, located immediately adjacent to the environmentally sensitive Haledon Reservoir. Completed a UST removal, and a soil/groundwater RI delineating the horizontal/vertical extent of soil contamination associated with the garage's former floor drain system and former drum container storage area. The drain system flowed to a cesspool located immediately adjacent to the garage with overflow water outletting to a spillway draining from the Haledon Reservoir. Following the cesspool's remediation, provided contractor oversight during the garage's demolition and site restoration.

- Performed a SI/RI and RA of three (3) separate properties (former bakery, vacant lot, trucking garage) located in Cliffside Park, NJ. The Borough planned to purchase the contiguous sites to construct a proposed Satellite DPW facility. During the PA, identified an extensive floor drain system beneath the trucking garage. The subsequent SI also identified historic fill material present in an approximate 2' layer beneath all 3 sites. Following the Borough's purchase of the properties, removed two (2) aboveground storage tanks (AST), video traced, decontaminated and removed 300 linear feet of floor drain piping and completed a comprehensive asbestos containing material (ACM) survey. Prepared a detailed plans and specifications for the building's demolition and provided contractor oversight during the work. Given that the site was to be utilized as a DPW garage, prepared a RAW including a Deed Notice allowing the historic fill to remain avoiding costly remediation (i.e. excavation and disposal).

BOSWELL
ENGINEERING

CHRIS COLABAUGH
Geologist

HIGHLIGHTS:

- Experience with both Phase I Environmental Site Assessments and NJDEP Preliminary Assessments.
- Prepared Preliminary Assessments and Site Investigations for private, municipal, and Industrial Site Recovery Act (ISRA) projects.

EDUCATION:

B.S., Geology, Kutztown University of Pennsylvania
A.S., Environmental Science, Raritan Valley Community College
A.S., Chemistry, Raritan Valley Community College

CERTIFICATIONS:

OSHA 40-Hour Hazardous Waste Site Operations
OSHA 10-Hour Construction Safety
NJ Transit Railway Safety Training

RELEVANT EXPERIENCE:

Mr. Colabaugh has over 1-year of experience as a geologist conducting environmental site remediations. He has participated in a variety of **Preliminary Site Assessments (PA), Environmental Assessments (EA), Site Investigations, and Phase I Environmental Site Assessments (ESA)** as well as remedial investigations, remedial actions, and receptor evaluations. He has also prepared several PA reports, EA reports, and Phase I ESA reports. Mr. Colabaugh also has over 3-years of experience with Geographic Information Systems (GIS) including subsurface topography mapping, shallow overburden and bedrock groundwater contour mapping, 1-mile radius well search mapping, preparing sensitive population maps, and data management.

His specific experience with **PA** and **SI** projects includes:

- Performed a Green Acres PA report and follow-up SI work for the Closter Swim Club in the Borough of Closter, NJ. PA work included records reviews of Sanborn Fire Insurance maps, historic topographic maps, historic aerial images, directory searches, and Open Public Records Request pursuant to NJDEP's Technical Requirements. The PA identified six (6) areas of concern and was able to eliminate all but three (3). The radius search discovered two (2) site remediation cases that may be impacting the on-site potable well. The historic aerial images suggest that prior to 1931 the site was at least partially used for agricultural farming and may be impacted by historic pesticide contamination. Future SI work will include collecting six (6) subsurface soil samples for pesticides, potable well sampling for VOCs, semi-volatile organic compounds (semi-VOCs), and pesticides. Boswell will also dye trace and video inspect the one (1) sump pump line from the pool's backwash pit before issuing the site a remedial action outcome (RAO) of no further action.

- Performed a Preliminary Assessment report for National Paper Envelope, a printing company, which through investigation of the McRAEs Industrial Directory, was determined to be Industrial Site Recovery Act (ISRA) applicable requiring a RAO of no further action prior to the sale of the property. The site contained an exhaust pipe that caused organic staining on the nearby asphalt pavement and a chemical storage room with a leaking roof. A limited investigation of the surficial soils to determine the impact of these two (2) separate source areas was recommended prior to the issuance of an RAO. Based upon these recommendations the subject property owner decided not to sell the property at this time.

- Prepared a Green Acres Environmental Assessment (EA) Report for the proposed changes to Harold Wall's Field in Rutherford. The EA is designed to inform Green Acres of the proposed improvements to the site including changes to the existing ball fields, installation of retaining walls, installation of new picnic tables and new parking lot, etc. as well as the existing site conditions, soil and sediment control measures. The report should discuss all possible potential environmental impacts resulting from the proposed changes so that Green Acres can determine if they will provide funding for the project.

- Prepared a Phase I ESA for an office building/parking garage complex in the City of Hackensack as part of the due diligence required of Bergen County prior to purchasing the property. The report identified one (1) potential AOC associated with the possibility of a former fuel oil tank used for heating the former residencies dwelling that appeared on the site prior to 1902 until approximately 1985. Based on the age of the construction of the building, it was determine that any Underground Storage Tank (UST) on the site would have been excavated and removed in order to prepare the site for the existing office building. Therefore, we were able to recommend no further action for the site.

APPENDIX M

Tier II Reduced and Electronic Data Deliverables

(Attached Separately)

PRELIMINARY ASSESSMENT REPORT

for

BLOCK 12, LOTS 1-7, 9, 11-18

City of Hoboken
Hudson County, New Jersey

Our File No. HO-458

GREEN ACRES PROGRAM
New Jersey Department of Environmental Protection

Prepared By:

Frank J. Rossi, LSRP
Project Manager

Approved for Release By:

Stephen T. Boswell, Ph.D., P.E., LSRP
President, CEO

BOSWELL McCLAVE ENGINEERING
SOUTH HACKENSACK, NEW JERSEY
ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

JANUARY 2012

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I. Area(s) of Concern, Receptor and Emergency Response Tracking	*Impacted Media*	*Contaminants of Concern*	*Exposure Route*	*Receptors*		*Current Status/Outcome*
				Existing	*Potential*	
AOC-1: Historic Fill	Potentially Soil and Groundwater	PAHs, EPH, Metals, and PCBs	Direct contact and groundwater migration	None	Limited amount of direct contact exposure in unpaved locations	**January 2012 Preliminary Assessment Report (PAR)** - In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants. Boswell McClave recommends collecting a minimum of four (4) soil samples and one (1) groundwater sample and analyzing for historic fill parameters if fill material is identified.
AOC-2: Potential USTs	Potentially Soil and Groundwater	Petroleum hydrocarbons and lead	Groundwater migration	None	None	**January 2012 PAR** - The various properties have been developed and modified throughout the last 100-years according to aerial imagery and Sanborn Fire Insurance Maps. Some of the former structures may have utilized heating oil underground storage tanks (UST) or other underground storage structures. Boswell McClave recommends a geophysical survey of the subject properties in order to confirm the presence/absence of USTs or other subsurface anomalies. If any USTs are located they should be investigated in accordance with the NJDEP's Technical Requirements.
AOC-3: Off-Site Former UST Releases	Potentially Groundwater	Gasoline and Fuel Oil	Groundwater Migration	None	None	**January 2012 PAR** - The FirstSearch radius report identified the presence of off-site UST releases of gasoline and fuel oil nearby the site. Based on the age of the releases (~10 years ago), the potential contaminants have a low possibility of impacting the site. Moreover, it is the responsibility of the responsible party (RP) to address contamination migrating from their site. Boswell McClave recommends no further investigation for this AOC.

1.0 SUMMARY

Boswell McClave Engineering (Boswell McClave) has completed this Preliminary Assessment Report (PAR) for the City of Hoboken (City) in conformance with the guidelines set forth by the New Jersey Department of Environmental Protection's (NJDEP) Technical Requirements for Site Remediation, N.J.A.C. 7:26E-1.8, for:

- Block 12, Lots 1-6, 57-67 Harrison Street;
- Block 12, Lot 7, 69 Harrison Street;
- Block 12, Lot 9, 67-69 Paterson Avenue;
- Block 12, Lot 11, 59 Paterson Avenue;
- Block 12, Lot 12, 57 Paterson Avenue;
- Block 12, Lot 13, 55 Paterson Avenue;
- Block 12, Lot 14, 51-53 Paterson Avenue;
- Block 12, Lot 15, 64 Jackson Street; and,
- Block 12, Lots 16-18, Jackson Street,

hereinafter referred to as "the Properties" or "the Sites". The Green Acres Preliminary Checklist is included in ***Appendix B***. A signed copy of the NJDEP Preliminary Assessment/Site Investigation (PA/SI) Reporting Form is included in ***Appendix A*** while Boswell McClave's qualifications are included in ***Appendix P***. The Terms and Conditions of this PA are included in ***Appendix O***.

The PAR has identified the following potential environmental Areas of Concern (AOC) associated with the Sites:

AOC-1: Historic Fill

In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants. Lastly, the Sites appear on the NJDEP's Historic Fill Map and two (2) nearby properties have Deed Notices for historic fill contamination.

AOC-2: Potential USTs

The various properties have been developed and modified throughout the last 100-years according to aerial imagery and Sanborn Fire Insurance Maps (Sanborn Maps). Some of the former structures may have utilized heating oil USTs or other underground storage structures.

AOC-3: Off-Site Former UST Releases

The FirstSearch Radius Report identified the presence of off-site UST releases of gasoline and fuel oil nearby the site. Based on the age of the releases (~10 years ago) and their distance from the Sites, the potential contaminants have a low possibility of impacting the Sites.

A map depicting the approximate location of each AOC is included as ***Figure 1***.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

This PAR addresses the properties located at:

- Block 12, Lots 1-6, 57-67 Harrison Street;
- Block 12, Lot 7, 69 Harrison Street;
- Block 12, Lot 9, 67-69 Paterson Avenue;
- Block 12, Lot 11, 59 Paterson Avenue;
- Block 12, Lot 12, 57 Paterson Avenue;
- Block 12, Lot 13, 55 Paterson Avenue;
- Block 12, Lot 14, 51-53 Paterson Avenue;
- Block 12, Lot 15, 64 Jackson Street; and,
- Block 12, Lots 16-18, 58-62 Jackson Street.

The Sites are located in the City of Hoboken, Hudson County, New Jersey and are depicted on the City of Hoboken Tax Map included in ***Appendix C***.

2.1.1 Block 12, Lots 1-6 (57-67 Harrison Street)

According to the City Tax Collector's Office, Block 12, Lots 1-6 are 25' by 100' rectangular shaped parcels encompassing a total area of approximately 0.34-acres. The City records report the property's usage as Class 4A-Commercial.

The City Tax Assessor lists the current property owner as:

Debrosses Garage Corp. c/o Ponte
268 West Street
New York, NY 10013-1731

2.1.2 Block 12, Lot 7 (69 Harrison Street)

According to the City Tax Collector's Office, Block 12, Lot 7 is a 25' by 75' rectangular shaped parcel encompassing approximately 0.04-acres. The City records report the property's usage as Class 1-Vacant Land.

The City Tax Assessor lists the current property owner as:

Ponte Equities, Inc.
268 West Street
New York, NY 10013-1731

2.1.3 Block 12, Lot 9 (67-69 Paterson Avenue)

According to the City Tax Collector's Office, Block 12, Lot 9 is an irregularly shaped parcel encompassing approximately 0.05-acres. The City records report the property's usage as Class 15C-Public Property described as vacant land.

The City Tax Assessor lists the current property owner as:

The Mayor and Council of the City of Hoboken
Hoboken, NJ 07030

2.1.4 Block 12, Lot 11 (59 Paterson Avenue)

According to the City Tax Collector's Office, Block 12, Lot 11 is a trapezoid shaped parcel with width of 25' and an average length of 78' encompassing approximately 0.04-acres. The City records report the property's usage as Class-2 Residential with one (1) dwelling.

The City Tax Assessor lists the current property owner as:

Mita & Tanvi Patel
165 Runyon Avenue
Somerset, NJ 08873-1946

2.1.5 Block 12, Lot 12 (57 Paterson Avenue)

According to the City Tax Collector's Office, Block 12, Lot 12 is a trapezoid shaped parcel with width of 25' and an average length of 132' encompassing approximately 0.08-acres. The City records report the property's usage as Class-1 Vacant Land.

The City Tax Assessor lists the current property owner as:

Ponte Equities, Inc.
268 West Street
New York, NY 10013-1731

2.1.6 Block 12, Lot 13 (55 Paterson Avenue)

According to the City Tax Collector's Office, Block 12, Lot 13 is a trapezoid shaped parcel with width of 25' and an average length of 110' encompassing approximately 0.06-acres. The City records report the property's usage as Class-1 Vacant Land.

The City Tax Assessor lists the current property owner as:

Ponte Equities, Inc.
268 West Street
New York, NY 10013-1731

2.1.7 Block 12, Lot 14 (51-53 Paterson Avenue)

According to the City Tax Collector's Office, Block 12, Lot 14 is a trapezoid shaped parcel with width of 50' and an average length of 53' encompassing approximately 0.06-acres. The City records report the property's usage as Class-1 Vacant Land.

The City Tax Assessor lists the current property owner as:

Ponte Equities, Inc.
268 West Street
New York, NY 10013-1731

2.1.8 Block 12, Lot 15 (64 Jackson Street)

According to the City Tax Collector's Office, Block 12, Lot 15 is a 25' by 50' rectangular shaped parcel encompassing approximately 0.06-acres. The City records report the property's usage as Class-1 Vacant Land.

The City Tax Assessor lists the current property owner as:

Unity Environmental & Educational Systems
268 West Street
New York, NY 10013-1731

2.1.9 Block 12, Lots 16-18 (58-62 Jackson Street)

According to the City Tax Collector's Office, Block 12, Lots 16-18 are 25' by 100' rectangular shaped parcels encompassing a total area of approximately 0.18-acres. The City records report the property's usage as Class-4A Commercial.

The City Tax Assessor lists the current property owner as:

Ponte Equities, Inc.
268 West Street
New York, NY 10013-1731

2.2 Site and Vicinity Characteristics

The area surrounding the subject properties is a mixture of residential, commercial, and industrial properties located in the urban City of Hoboken ***(Appendix C)***. In addition to the Block 12 properties addressed in this PA, Mola Iron Works, a metal fabricating facility, is located on Lot 10 and 2-story residential structure is found on Lot 8. The two (2) aforementioned properties are not included in this PA.

The Historic Fill Map ***(Appendix C)*** which depicts the NJDEP Historic Fill dataset shows the Sites and surrounding area as fill areas.

According to the United States Geological Survey (USGS) Jersey City Quadrangle Topographic Map, the Sites lie at an average elevation of 10' above mean sea level ***(Appendix D)***. The land is generally level with no prominent slope.

There are no surface water bodies located on any of the subject properties. The nearest water body is a tributary to the Hudson River located approximately 1,800' southeast of the nearest property boundary. The tributary travels east approximately 1,900' before discharging into the Hudson River. The Hudson River is a tidal water body that empties into New York Bay before eventually outletting to the Atlantic Ocean.

The NJDEP Surface Water Quality Standards Report (N.J.A.C. 7:9B) classifies the Hudson River tributary as Freshwater-2 Non-Trout Saline Estuary 2 (FW2-NT/SE2) waters. Non-trout (NT) signifies fresh waters that are not designated as trout production or trout maintenance. These waters are generally not suitable for trout because of their physical, chemical, or biological characteristics, but are suitable for a wide variety of other species. This tributary of the Hudson River has been classified as a Saline Estuarine Category 2 streams (SE2) based on the NJDEP designated uses including: maintenance, migration and propagation of the natural and established biota; migration of diadromous fish; maintenance of wildlife; secondary contact recreation; and any other reasonable uses.

According to the NJDEP's cross referenced wetland shapefile, there are no wetlands within 200' of the Sites.

2.3 Utilities

The following is a description of local utilities available to the subject properties:

A. Water Supply

United Water supplies potable water to the area.

B. Sewage Disposal

The North Hudson Sewerage Authority is responsible for the combined stormwater/sanitary sewerage in the Site's vicinity.

C. Heat

Public Service Electric and Gas (PSE&G) supplies natural gas service to properties in the area.

D. Electric

PSE&G also provides electricity to properties in the area.

E. Stormwater

Stormwater flow at the Properties is via infiltration and overland runoff to inlets along Harrison Street, Jackson Street, Observer Highway, and Paterson Avenue. As previously mentioned the North Hudson Sewerage Authority is responsible for the combined stormwater/sanitary sewerage in the Site's vicinity.

2.4 Description of Structures and Site Improvements

The majority of the subject properties are an asphalt paved parking lot on Lots 1-7 and 13-18 surrounded by a 6' high galvanized steel chain-link fence. The asphalt has two (2) humps, one (1) in the outline of the foundation of the former flat at Lot 15 and one (1) in the western portion of the parking lot. Lot 9 contains a vegetated median with trees and grass separated from the rest of the block by a cobblestone road traveling east/west. A 2-family, 2-story residential dwelling is located at Lot 11 while Lot 12 is undeveloped.

2.5 Current Use of Property

The majority of the subject properties (Lots 1-7 and 13-18) are currently operated by Desbroses Garage Corp., Ponte Equities, Inc., and Unity Environmental as a private parking lot.

The City of Hoboken owns Lot 9 which is an undeveloped property having a cobblestone road at its southern end.

Lot 11 is owned by Mita Patel & Tanvi Patel and is a two (2) family residential dwelling.

Lot 12 is a vacant undeveloped property.

2.6 Past Uses of Property

Prior to the Site's current uses, the southern portion of the properties contained footings for the North Hudson County Railroad's elevated trolley line based on Sanborn Maps, historic aerial photographs and the chain-of-title. The north portion of the Sites has been developed with various apartments and residential dwellings that included garages, a smokehouse and storage over the past 100-years.

2.7 Sanborn Fire Insurance Maps

Boswell McClave obtained six (6) Sanborn Maps ***(Appendix G)***, illustrating the Sites and surrounding area from FirstSearch Technology Corp. (FirstSearch). The Sanborn Maps are dated 1891, 1938, 1951, 1979, 1988, and 1990.

1891 The 1891 Sanborn Map shows lots 1-6, 8-9, and 16-18 as undeveloped parcels. The remaining parcels are developed with brick buildings described as stores or dwellings. The North Hudson County Railway (Elevated) is depicted as crossing the southern half of Block 12 in an east-west direction. The Hoboken Elevated as it was commonly known traveled through the City from Hudson Street (near the Lackawanna Terminal) up to Jersey City Heights. Immediately across Observer Highway and south of the Sites is a Cooperage at Block 6. Cooperages typically manufacture and/or recondition barrels and drums.

1938 The 1938 Sanborn Map shows Lots 1-6 and 16-18 as undeveloped parcels. However the remainder of the Site has undergone a large amount of development including residential properties, apartments over shops, storage buildings, a smokehouse, and an ice house. The North Hudson County Railway (Elevated) is still shown crossing the southern portion of the Site. The cooperage to the south has been removed and replaced by a baking powder manufacturing plant. Also, an auto repair garage at Block 12, Lot 10 is located outside of the subject property boundaries, but on the same city block as the Sites. Other off-site concerns include Elec Motor paint grinding and a printing building located immediately north of the subject properties across Paterson Avenue.

1951 The 1951 Sanborn map shows Lots 1-6 and 16-18 remaining as undeveloped. The remainder of the properties contain residential dwellings, storage buildings, a metal warehouse and apartments over shops. The North Hudson County Railway (Elevated) is still shown crossing the southern portion of the site. The nearby auto repair garage at Lot 10, on the same city block as the subject properties, is now described as a metal warehouse building. Off-site across

Paterson Avenue, the paint grinding building has been replaced by an auto laundry building which may have also been a dry cleaning facility. Also north of the site on the corner of Jackson Street and Paterson Avenue is a sheet metal warehouse and an auto repair garage is now seen.

1979 The 1979 Sanborn map does not show many changes since 1951, however, the elevated railway above the southern portion of the site has been demolished. Also, the metal storage warehouse has changed its use to metal warehouse and welding. There are also no significant off-site changes since 1951.

1988 The 1988 Sanborn map does not show any significant changes to on-site or immediately off site structures since 1979.

1990 The 1990 Sanborn Map shows that the structures on Lots 14 and 15 no longer present. The map also depicts structures on Lots 12 and 13 which have since been demolished.

2.8 Aerial Photograph Review

Boswell McClave obtained nine (9) historic aerial photographs ***(Appendix F)*** from Environmental Data Resources, Inc. (EDR), illustrating the Sites and surrounding area. The photographs are dated 1943, 1953, 1966, 1975, 1984, 1985, 1994, 1995 and 2006.

1943 The 1943 aerial photograph shows the northern half of the Properties as developed land containing several buildings that appear to be at least two (2) stories; however details are difficult to distinguish due to shadowing. The southern half of the sites have an elevated railroad line crossing the property in an east-west direction. Details of the southern portion of the property are difficult to determine due to a shadow caused by the baking powder manufacturing plant across the street to the south.

1953 The 1953 aerial photograph is much brighter than the 1943 image and depicts the northern portion of Block 12 as densely developed with several small multi-story buildings. The elevated railway over the southern portion of the Sites is no longer present; however, shadowing makes it difficult to determine if any structures are occupying the area.

1966 The 1966 aerial photograph does not show any significant changes since 1953. The shadow from the baking powder plant to the south still makes the southern portion of the Site difficult to see. Despite

the shadow, some large vehicles are visible at the southern end of the Sites which most likely was used as a parking lot.

1975 The 1975 photograph shows the southern portion of the Property as being occupied by many trailers on what appears to be a parking lot. No noticeable changes are visible to the northern portion of the Properties.

1984 The 1984 aerial photograph shows the northern portion of the Sites in their existing condition. The parking lot to the south of the Site is currently vacant however there appears to be an area of disturbed soil to the southeast, near Lots 17-18.

1994 The quality of the 1994 photograph in the vicinity of the site is poor making distinguishing individual features difficult.

1995 The 1995 aerial photograph shows an increase in buildings since 1994. Two (2) new buildings are visible, one (1) in the southeast (Lots 17-18) and one (1) smaller structure in the southwest (Lot 1).

2006 The 2006 aerial photograph shows the Sites in their current configuration with the majority of the lots being occupied by an asphalt parking lot.

2.9 City Directory Review

In accordance with NJDEP requirements, FirstSearch researched the City Directory Abstracts. The City Directories were searched for the following addresses: 51-59 Paterson Avenue, 58-64 Jackson Street, and 57-69 Harrison Street. Sources were found spanning the years from 1972 to 2007. The results of the search for the subject properties is shown below sorted by address:

59 Harrison Street	Listings
2002/Cole Directory	Georges Produce
1972/Cole Directory	Orbit Car Wash

69 Harrison St	Listings
2002/Cole Directory	Occupant Unknown
1996/Cole Directory	Occupant Unknown
1986/Cole Directory	Occupant Unknown
1980/Cole Directory	G. Denaris
1975/Cole Directory	E. Musto
	Thos Musto
	T. Musto
1972/Cole Directory	John Musto
	Thos Musto

64 Jackson St	Listings
2002/Cole Directory	Occupant Unknown
1996/Cole Directory	Occupant Unknown
1991/Cole Directory	Occupant Unknown
1986/Cole Directory	Occupant Unknown
1980/Cole Directory	S. De La Cruz
1975/Cole Directory	J. L. Newman
	C. Rios
	J. Rolon
1972/Cole Directory	Mrs. Juanita Bolon
	F. P. Kiesche
	C. Rios

53 Paterson Ave	Listings
1980/Cole Directory	B. P. Schlendorf
1972/Cole Directory	B. P. Schlendorf

55 Paterson Ave	Listings
1996/Cole Directory	Occupant Unknown
1991/Cole Directory	Occupant Unknown
1986/Cole Directory	Occupant Unknown
1980/Cole Directory	P. Schlendorf
1975/Cole Directory	P. Schlendorf
1972/Cole Directory	P. Schlendorf

57 Paterson Ave	Listings
1996/Cole Directory	Occupant Unknown
1991/Cole Directory	Occupant Unknown
1986/Cole Directory	W. Burchill
1980/Cole Directory	W. Burchill
1975/Cole Directory	W. Burchill
1972/Cole Directory	W. Burchill

59 Paterson Ave	Listings
2007/Cole Directory	Sharda Patel
2004/Cole Directory	Sharda Patel
	Jennifer Spychalsky
2002/Cole Directory	Sharda Patel
1996/Cole Directory	D. Genaris
1991/Cole Directory	D. Genaris
1980/Cole Directory	Mrs. E. Gill
1975/Cole Directory	Mrs. E. Gill
	H. McKirdy
1972/Cole Directory	Mrs. E. Gill
	H. McKirdy

A complete copy of the City Directory Search Report is included in ***Appendix J.***

2.10 Industrial Directory Search Report

In accordance with NJDEP's Technical Requirements, the McRae Industrial Directories were searched from 1954 to 2007. The Industrial Directories were searched for the following addresses: 51-59 Paterson Avenue, 58-64 Jackson Street, and 57-69 Harrison Street. The search did not identify any industrial usages at any of the subject properties. A copy of the Industrial Directory Search Report is included in ***Appendix I.***

2.11 Historic Topographical Maps

Boswell McClave obtained eight (8) historical topographic maps ***(Appendix H)*** illustrating the Sites and surrounding area. The maps are dated 1891, 1900, 1900, 1905, 1947, 1955, 1967, and 1981.

1891 The 1891 topographic map shows the Sites are located in an urban area with wetlands to the west. Due to the small scale, individual

features such as number of buildings on the site and their locations are not drawn.

1900 The 1900 Staten Island Quadrangle topographic map is the same scale as the 1891 map. The site is still located in an urban area with wetlands to the west. Individual buildings are still not drawn due to the map's scale.

1900 The 1900 Passaic Quadrangle topographic map is drawn at the same scale as the other 1900 map and therefore does not show any buildings on the subject properties. The map also shows a general increase in the road network surrounding the property to the west.

1905 The 1905 topographic map does not show any noticeable changes to the subject properties since 1900.

1947 The 1947 topographic map is a smaller scale than any of the previous topographic maps and shows the northern section of Block 12 as developed along Paterson Avenue. The North Hudson County Railroad Company elevated railroad is also drawn above the southern portion of the Sites parallel to Observer Highway.

1955 The 1955 topographic map does not show any buildings on the subject properties, but describes the Sites and surrounding vicinity as urban land. The Properties appear generally level and there are no significant changes on or off-site since 1947.

1967 The 1967 topographic map does not show significant changes since 1955.

1981 The 1981 topographic map does not show significant changes since 1967.

3.0 RECORDS REVIEW

This section presents an in-depth evaluation of the existing documentation available for the sites.

3.1 Federal and State Database Information

The included FirstSearch Radius Report *(Appendix Q)* presents findings for all pertinent environmental risks as outlined by the ASTM standards. A total of 21 different Federal and State databases were searched to provide the information regarding the project site and sites in the surrounding area within 1-mile. The FirstSearch Report presents the data in both a summarized and detailed format. A summary of the Federal and State databases searched by FirstSearch is included in their report.

Federal and State regulatory agency databases were searched in order to determine if any pertinent records and/or files exist regarding environmental or enforcement actions at the Site or at adjacent properties. The listings compiled by the United States Environmental Protection Agency (USEPA) and the NJDEP are presented in the FirstSearch Report dated September 19, 2011. The FistSearch Report was reviewed to aid in the identification of recognized environmental conditions in connection with the Property. An evaluation of the report and a summary of sites within 1-mile of the subject property with the corresponding reference map identification numbers are presented in Section 4.2. A Glossary of Terms is included in *Appendix N.*

3.2. FirstSearch Report – Site Summary

The subject properties at Block 12, Lots 1-7, 9, and 11-18 were not listed on any of the Federal or State databases searched.

3.3 FirstSearch Report – Surrounding Vicinity Summary

The FirstSearch Report also identified a number of unmapped sites within 1-mile of the subject property. Sites are listed as unmapped due to poor or inadequate address information. Unknown distance and location relative to the subject property prevents Boswell McClave from discussing their potential environmental impact. A list of the unmapped sites is included in *Appendix Q*.

A summary of the sites identified by the First Search report within one eighth (1/8) of a mile from the subject property is as follows:

Site and Address	Location from Site (miles)	Elevation Relative to Site (Higher/Lower)	Database(s)	Potential Impact (High/Medium/Low)	Potential Impact (Reason)
M & F Diesel Service 56 Harrison Street Hoboken, NJ 07030	0.03	Equal	SPILLS	Low	Fire Department complained of sloppy housekeeping of petroleum hydrocarbons stored on site. Case is terminated. NJDEP Case No. **92-03-01-1405-56**.
In Roadway 99 Paterson Avenue Hoboken, NJ 07030	0.04	Equal	SPILLS	Low	Rutgers Express spilled 10-gallons of motor oil in the roadway that was contained. Case is terminated. NJDEP Case No. **90-08-24-0931**.
In Front Of 99 Paterson Avenue Hoboken, NJ 07030	0.04	Equal	SPILLS	Low	Vehicle spilled 1-gallon of transmission oil in roadway that was contained. Case is terminated. NJDEP Case No. **93-05-21-1235-41**.
Diner 61 Jackson Street Hoboken, NJ 07030	0.04	Equal	LUST SPILLS	Medium	No. 2 fuel oil UST release, historic fill contamination was detected above tank, cleanup complete. NJDEP Case No. **08-01-29-1729-28**.
In Roadway Jackson Street and Observer Highway Hoboken, NJ 07030	0.04	Higher	SPILLS	Low	Spilled unknown quantity of diesel fuel. NJDEP Case No. **90-04-27-1644**.
Observer Highway Redevelopment Project Observer Highway Hoboken, NJ 07030	0.04	Equal	KCSL	Low	Active NJ Known Contaminated Site List (KCSL) NJDEP ID: G000008902.
In The Area of 76 Jackson Street Hoboken, NJ 07030	0.05	Higher	SPILLS	Low	Citizen complaint of odors coming from facility. NJDEP Case No. **97-01-23-1409-23**.
Open Lot Across From 49 Harrison Street Hoboken, NJ 07030	0.05	Equal	SPILLS	Low	Citizen complaint of illegal dumping of soil waste, garbage/trash. NJDEP Case No. **90-02-15-1318**.

Site and Address	Location from Site (miles)	Elevation Relative to Site (Higher/Lower)	Database(s)	Potential Impact (High/Medium/Low)	Potential Impact (Reason)
Rear of 49 Harrison Street Hoboken, NJ 07030	0.05	Equal	SPILLS	Low	Train derailment of one (1) tanker car containing phosphoric acid. NJDEP Case No. **98-05-27-1720-06**.
Albee Services, Inc. 38 Jackson Street Hoboken, NJ 07030	0.06	Higher	LUST RCRA-LQG VCP KCSL	Low	8,000-gallon fuel oil UST release causing soil contamination. Air contamination including xylene odors at 10 ppm. Hazardous waste generator of non-halogenated solvents. NJDEP Case Numbers: **92-06-19-1045-05**, **96-04-11-1004-30**, **92-4-28-0929-04**, and **92-7-16-1426-15.**
Mile Square Machinery 659 First Street Hoboken, NJ 07030	0.08	Higher	Deed Notice	Medium	Historic fill containing benzene, PAHs, lead, and PCBs (Arclor-1260) to a depth of 5'. Site has been capped with 8" of quarry process and 6" concrete pavers. NJDEP Case No. **98-05-07-1028-38**.
Madison Steel Works 89-91 Jackson Street Hoboken, NJ 07030	0.08	Higher	SPILLS KCSL	Low	1,000-gallon gasoline UST release. NJDEP Case No. **10-08-04-1215-55**.
Vacant Lot 16 Jackson Street Hoboken, NJ 07030	0.08	Higher	SPILLS KCSL	Low	Lead was detected in a soil sample. Case was terminated. NJDEP Case No. **02-10-18-1139-11**.
Midway Ink Corp. 659 First Street Hoboken, NJ 07030	0.09	Higher	UST LUST NFRAP VGN SPILLS MOA Application KCSL VCP RCRA-CEQ	Low	Four (4) 3,000-gallon USTs were removed and soil contamination with mineral spirits was detected. Site was investigated by EPA and no further remedial action is planned. Site was an RCRA conditionally exempt small quantity generator. NJDEP Case Numbers: **98-05-7-1028-38** and **98-05-19-0038-55**.

Site and Address	Location from Site (miles)	Elevation Relative to Site (Higher/Lower)	Database(s)	Potential Impact (High/Medium/Low)	Potential Impact (Reason)
Mile Square Machinery Inc. 659 First Street Hoboken, NJ 07030	0.09	Higher	UST DN	Low	3,000-gallon No. 2 fuel oil UST was removed, no reported spill. Deed Notice (DN) and engineering controls were instituted to cap benzene, PAHs, lead, and PCB (Arclor 1260) contamination in the historic fill material. NJDEP UST Site ID: **0228224.** NJDEP Case No. **98-05-07-1028-38.**
Ponpe Office Building 111 Paterson Avenue Hoboken, NJ 07030	0.09	Higher	LUST SPILLS STATE-KCSL UST VCP	Low	Release of diesel fuel detected during the removal of two (2) light diesel fuel (No. 1-D) 4,000-gallon USTs. Site formerly contained four (4) 4,000 gallon leaded gallon USTs. NJDEP Case No. **92-03-23-1101-47**
Pole Mounted Transformer in Front of 111 Paterson Avenue Hoboken, NJ 07030	0.09	Higher	SPILLS	Low	Transformer exploded, causing a release of 30-35-gallons of non-PCB transformer oil. Cleanup completed by PSE&G. NJDEP Case No. **97-08-12-1841-34**
Area of 701 1st Street Hoboken, NJ 07030	0.10	Equal	LUST SPILLS STATE-KCSL UST	Low	Release of gasoline from tank field resulting in soil and groundwater contamination. Site formerly contained two (2) 3,000-gallon leaded gasoline USTs and currently contains two (2) gasoline USTs. NJDEP Case No. **05-08-31-1045-21**
Ponte Equities 119 Paterson Avenue Hoboken, NJ 07030	0.10	Equal	LUST	Low	Site received a No Further Action Letter from the NJDEP's Bureau of UST in 1993. NJDEP ID: **LU-91-06-11-0025**

Site and Address	Location from Site (miles)	Elevation Relative to Site (Higher/Lower)	Database(s)	Potential Impact (High/Medium/Low)	Potential Impact (Reason)
Mojita Service Center 703 1st Street Hoboken, NJ 07030	0.10	Equal	LUST SPILLS	Low	Release of unknown quantity of gasoline from two (2) 3,000-gallon USTs. Case received No Further Action Letter from the NJDEP in 1998.NJDEP Case No. **96-02-20-0945-43**
Regional Import and Export Corporation 115 Paterson Avenue Hoboken, NJ 07030	0.10	Equal	RCRA-GN	Low	No violations or spills cited. NAIC number: 48411 – General Freight Trucking ISRA No. NJD048353692
Taxie Stand 703 1st Street Hoboken, NJ 07030	0.10	Equal	SPILLS	Low	Citizen complaint of gasoline releases from pump area to street during rain storms. NJDEP Case No. **06-08-30-1431-11**
In front of Jumbo Prints 614 Newark Street Hoboken, NJ 07030	0.10	Higher	SPILLS	Low	Two (2) 55-gallon drums marked Unit Portions 146 Albany Avenue, Linhurst, Long Island and the second marked Western Syrup Corp. NJDEP Case No. **95-01-17-1107-51**
In front of Jumbo Prints 660 Newark Street Hoboken, NJ 07030	0.10	Higher	SPILLS	Low	Latex paint and oil mixture feel off back of truck and substance was contained. NJDEP Case No. **98-04-23-1708-03**
Erhlich Trucking Facility 119 Marshall Street Hoboken, NJ 07030	0.11	Unknown	ENG CONTROL	Low	Site contains deed notice and engineering controls to contain acenaphtylene, phenanthrene, and lead.
Into Sewer 1St Street and Harrison Street Hoboken, NJ 07030	0.11	Equal	SPILLS	Low	Illegal dumping of gasoline into the sewer system. NJDEP Case No. **95-07-19-1605-08**

Site and Address	Location from Site (miles)	Elevation Relative to Site (Higher/Lower)	Database(s)	Potential Impact (High/Medium/Low)	Potential Impact (Reason)
On Time Bus Co. 50 Marshall Street Hoboken, NJ 07030	0.11	Equal	SPILLS	Low	Citizen complaint of improper disposal of sewage into the storm drain. NJDEP Case. No. **05-04-18-1022-50** Sewage from buses and trucks are being disposed of into storm drain. NJDEP Case No. **06-08-31-0914-38**
Near Residence 700 1St Street Hoboken, NJ 07030	0.11	Equal	SPILLS	Low	Citizen Complain of foul chemical odors in area occurring on Saturday nights. NJDEP Case No. **06-01-28-2135-20**
Eden Baskets 601 Newark Street Hoboken, NJ 07030	0.11	Higher	LUST RCRA-SQG SPILLS	Low	Release of No. 2 fuel oil causing soil contamination detected during removal of one (1) 1,000-gallon UST. NJDEP Case No. **96-07-26-1227-05** Site is a small quantity generator of ignitable waste.
Behind Windsor Wax Co. 603 Newark Street Hoboken, NJ 07030	0.11	Higher	SPILLS	Low	10, 55-gallon drums marked radioactive waste behind facility. Requested assistance. NJDEP Case No. **95-01-25-0202-00**
Windsor Wax Co. 603 Newark Street Hoboken, NJ 07030	0.11	Higher	SPILLS	Low	Citizen complaint of sloppy housekeeping, that property is contaminated and a No 2. fuel oil UST has been leaking for at least 30 years. NJDEP Case No. **96-11-11-1213-32**
Commercial Building 615 Newark Street Hoboken, NJ 07030	0.11	Higher	SPILLS	Low	Citizen complaint of chemical odors coming from the site. NJDEP Case No. **94-05-31-1257-07**

Site and Address	Location from Site (miles)	Elevation Relative to Site (Higher/Lower)	Database(s)	Potential Impact (High/Medium/Low)	Potential Impact (Reason)
Vacant Lot at 101 Harrison Street Hoboken City, NJ 07030	0.11	Higher	SPILLS RCRA-LQG STATE-KCSL UST VCP	Low	Release of gasoline contamination from three (3) 1,500-gallon USTs and two (2) 550-gallon USTs. Clean up pending. NJDEP Case No. **07-02-22-1330-32** Site was formerly a large quantity generator for general automotive repair.
Block 25, Lot 8 101 Marshall Street Hoboken, NJ 07030	0.12	Equal	LUST STATE-KCSL VCP	Low	Release of fuel oil from one (1) 1,000-gallon UST causing soil contamination. NJDEP Case No. **96-06-14-1206-22**
Intersection of 1st Street and Paterson Avenue Hoboken, NJ 07030	0.12	Equal	SPILLS	Low	No information reported NJDEP Case No. **94-07-07-1414-40**
Auto Motive Company 571 Newark Street Hoboken, NJ 07310	0.12	Higher	SPILLS	Low	Citizen complaint of illegal dumping of antifreeze discharging from a pipe to the ground. NJDEP Case No. **96-10-25-0930-30**

The Diner at 61 Jackson Street and Mile Square Machinery at 659 First Street have confirmed historic fill containing benzene, PAH, PCBs, and lead which have been capped using engineering and institutional controls. Based on the soil sampling results at Mile Square Machinery, historic fill contamination is possible at the subject property and therefore Boswell McClave assigned the sites a medium risk. For this reason, Boswell recommends a soil and groundwater investigation for historic fill contamination.

The FirstSearch Radius Report also identified several petroleum releases in the vicinity of the site. However, based on the age and low volume of petroleum released, the contaminants have a low possibility of impacting the site. Furthermore, an investigation into the NJDEP's GeoViewer GIS program did not identify any groundwater Classification Exemption Areas (CEA) that would indicate an existing petroleum groundwater contamination problem at the Sites.

Additional information pertaining to Federal and State databases can be reviewed in ***Appendix Q***.

3.4 Physical Setting Sources

The current USGS 7.5 Minute Jersey City Quadrangle Topographic Map depicting the sites has been reviewed and included in this report ***(Appendix D)***.

3.5 Chain of Title Information

Accurate Abstracts performed a search to provide the historic Chain-of-Title for the subject properties ***(Appendix L)***. FirstSearch provided the results of the Environmental Lien Search on the subject properties ***(Appendix M)***.

A summary of the ownership for the subject properties at Block 12, Lots 1-7, 9, and 11-18 are as follows:

Lots 1, 2, 3, 4, & 6

Date Recorded	Grantor	Grantee
9/11/1884	William McCune et. ux.	The North Hudson County Railroad Company
1/15/1974	Henery & Fieda Schneider	Desbroses Garage Corp.

Lot 5

Date Recorded	Grantor	Grantee
9/11/1884	William McCune et. ux.	The North Hudson County Railroad Company
9/5/1954	Public Service Coordinated Transport	Public Service Electric & Gas
7/21/1964	Public Service Electric & Gas	Jocarlin, Inc.
1/24/1973	Jocarlin Realty Company	Henery & Fieda Schneider
1/15/1974	Henery & Fieda Schneider	Desbroses Garage Corp.

Lot 7

Date Recorded	Grantor	Grantee
1/29/1906	William Machut et. ux.	Ernst Blodow et. ux.
3/26/1920	Ernst Blodow et. ux.	Thomas Jerkovich et. ux.
4/12/1943	Thomas Jerkovich et. ux.	The Home Owners' Loan Corporation
11/12/1943	The Home Owners' Loan Corporation	Digo Dan Legac, et. ux.
7/24/1944	Digo Dan Legac, et. ux.	Thomas Jerkovich
11/19/1953	Anna Jerkovich	Thomas Musto and Elsie Musto
12/15/1980	Elsie Musto	Alexander Rios, Jr.
7/12/1989	Alexander Rios, Jr.	V. Ponte & Sons, Inc.
12/3/1990	V. Ponte & Sons, Inc.	Ponte Equities, Inc.

Lot 9

Date Recorded	Grantor	Grantee
2/1/1875	Julin C. Reubel	The North Hudson County Railroad Company
12/20/1948	Public Service Coordinated Transport	The City of Hoboken

Lot 11

Date Recorded	Grantor	Grantee
11/5/1979	William M. Sewell, Jr.	George Denaris & Mildred Denaris
1/26/1998	George Denaris & Mildred Denaris	The Sheriff of the County of Hudson
3/27/1998	The Bankers Trust Company of California	Mita Patel & Tanvi Patel

Lot 12

Date Recorded	Grantor	Grantee
10/5/1808	John Garr et. ux.	Albert Albet Sr.
8/9/1939	Anna Herbermann & Frederick Habermann	The Mayor and Council of the City of Hoboken
8/4/1942	The Mayor and Council of the City of Hoboken	John Busch & Anna Busch
8/31/1957	Anna Busch	Edward J. Buchanan & Patricia Buchanan
5/17/1971	Edward J. Buchanan & Patricia Buchanan	William Burchill & Elizabeth Burchill
1/13/1989	William Burchill & Elizabeth Burchill	V. Ponte & Sons, Inc.
12/3/1990	V. Ponte & Sons, Inc.	Ponte Equities, Inc.

Lots 13 & 14

Date Recorded	Grantor	Grantee
5/15/1906	August Schmidt	Robert Fredde
6/20/1940	Robert Fredde	The Mayor and Council of the City of Hoboken
12/21/1948	The Mayor and Council of the City of Hoboken	Anna Busch
12/22/1948	Anna Busch	Anthony Cavallo
1/27/1952	Anthony Cavallo	Joseph John Keirle, Sr.
8/17/1964	Frederick Charles Keirle & Sophie Keirle	John M. Backus
1/8/1966	John J. Backus & Lorain Backus	Gertude Backus
3/29/1966	Gertude M. Backus	William & Barbara Curran
5/23/1966	William & Barbara Curran	Prior H. Schlendorf
8/9/1985	Prior H. Schlendorf & Barbara Schlendorf	V. Ponte & Sons, Inc.
12/3/1990	V. Ponte & Sons, Inc.	Ponte Equities, Inc.

Lot 15

Date Recorded	Grantor	Grantee
7/22/1923	John J. Ryan et. ux.	Mary Ellen Erbeck
12/20/1946	John F. Erbeck	Frank C. Bogert
7/23/1947	Frank C. Bogert	Frederick P. Kiesche
1/20/1973	Angelica Kiesche	Lawrence J. Newman & Mary B. Newman
7/28/1980	Lawrence J. Newman	Julius Kropf
8/13/1982	Julius Kropf	Nicholas Valdes & Brunilda Valdes
12/5/1989	Nicholas Valdes & Brunilda Valdes	Unity Environmental Corp.

Lots 16, 17, & 18

Date Recorded	Grantor	Grantee
9/11/1884	William McCune et. ux.	The North Hudson County Railroad Company
1/15/1974	Henery & Fieda Schneider	Desbroses Garage Corp.

4.0 *INFORMATION FROM SITE RECONNAISSANCE AND INTERVIEWS*

The following section provides the results of Boswell McClave's site reconnaissance and response from regulatory officials.

4.1 Summary of Site Reconnaissance

On October 27, 2011 Boswell McClave inspected the subject properties with a municipal representative from the City of Hoboken to identify any present or potential environmental concerns related to on-site activities. Items noted at each location included the property use, any improper storage, handling, and disposal of hazardous materials, the type of heating system and any fuel oil storage. The inspection was limited to visual observations. The site inspection photographs are found in ***Appendix E.***

The inspection findings are as follows:

The majority of the Properties' southern end (Lots 1-7 and 13-18) are currently an asphalt paved parking lot surrounded by a 6' high galvanized chain-link fence topped by barbed wire. The lot's main entrance gate is located to the south along Observer Highway while a secondary entrance is located along Harrison Street. A saw-cut concrete slab from the former residential apartment at Lot 15 is visible beneath the asphalt pavement at the property's edge along Jackson Street. The asphalt also appears raised and cracked in a rectangular shape extending west from the exposed concrete slab, indicating the foundation to the building was likely left in place following demolition. The parking lot has a second raised area to the west as well as several low spots where rainwater collected. The irregular surface possibly indicates that other former structure foundations may be present within the parking lot.

Lot 9 is located at the north end of the Site and is not contiguous with the Site's 15 others. Lot 9 is separated from the remainder of Block 12 by a cobblestone road that travels east-west along the parcel's southern end. The north end of Lot 9 is undeveloped and contained several trees and a grass lawn. Some miscellaneous trash was observed in the lawn area.

Continuing east along Paterson Avenue we observed that Lot 11 contains a 2-story 2-family residential dwelling. The building is vinyl-sided without a basement or crawl space. Both floors are heated by natural gas and Boswell McClave was unable to locate any piping that would indicate that the building formerly utilized a fuel oil UST.

Further east, Lot 12 was found vacant and undeveloped however concrete rubble was seen throughout the lot.

Notable lots that are also part of Block 12, but not included in this PA, include the Mola Iron Works facility at 61 Paterson Avenue (Lot 10) which performs metal fabricating including cutting, grinding and welding and a 2-story residential dwelling at 63-65 Paterson Avenue (Lot 8).

4.2 State, County and Local Records Search

The following are the results of Boswell McClave's Open Public Records Act (OPRA) search with the various State, County and local agencies as well as interviews with the residential property tenant:

4.2.1 City of Hoboken

Boswell McClave submitted an OPRA request to the City of Hoboken Fire Department and Clerk's Office who reported they were unaware of any environmental concerns associated with the Sites ***(Appendix K)***.

4.2.2 Hudson Regional Health Commission

Boswell McClave submitted a Government Records Request to the Hudson Regional Health Commission (HRHC) for any records pertaining to environmental response actions or environmental violations at the subject properties. The HRHC reported they had no files concerning the Properties ***(Appendix K)***.

4.2.3 NJDEP Records Request

Pursuant to the New Jersey Open Public Records Act Boswell McClave requested access to the NJDEP records for the subject properties. The NJDEP had no environmental records for the Sites ***(Appendix K)***.

4.2.4 Interview with Tenant

During the October 27, 2011 site inspection Boswell McClave spoke with a tenant at the residential property at (59 Paterson Avenue, Lot 11). The tenant reported that both floors of the building were heated with natural gas and to the best of her knowledge no USTs have ever existed at that property. She was also able to confirm that the building did not have a basement or crawl space.

5.0 CONCLUSIONS AND RECOMMENDATIONS

This office has performed a Preliminary Assessment (PA) in conformance with the requirements set forth by the NJDEP Technical Requirements for Site Remediation, N.J.A.C. 7:27E of:

51-59 Patterson Avenue, 58-64 Jackson Street, and 57-69 Harrison Avenue
Block 12, Lots 1-7, 9, and 11-18
City of Hoboken
Hudson County, New Jersey 07030

As documented, this PA revealed three (3) potential environmental AOCs associated with the above referenced properties. A completed and signed copy of the NJDEP PA/SI Form is included in ***Appendix A***. An AOC Location Plan is included as ***Figure 1***.

AOC-1: Historic Fill

Results:

In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants. Lastly, the Sites appear on the NJDEP's Historic Fill Map and two (2) nearby sites have Deed Notices for historic fill contamination.

Recommendations:

Since fill material may have been used to raise the Propertys' topographic grade, this AOC should be investigated in conjunction with AOC-2 and AOC-3. Based on the size of the site (~1 acre), a minimum of four (4) soil borings should be advanced and a minimum of four (4) soil samples collected in accordance with the NJDEP's Technical Requirements for Site Remediation. All samples should be analyzed for Extractable Petroleum Hydrocarbons (EPH) Category-2 and Target Analyte List Metals (TAL Metals). Contingent Polycyclic Aromatic Hydrocarbons (PAH) and Polychlorinated Biphenyls (PCB) analysis should be requested on 25% of the samples biased to the highest EPH result. Additionally, Target Compound List (TCL) volatile organic compound (TCL VOA+) analysis should be performed on any sample exhibiting a photoionization detector (PID) reading greater than 5x background. Furthermore a minimum of one (1) groundwater sample should be collected and analyzed for historic fill parameters if fill is identified in order to determine if soil contaminants have impacted the shallow overburden groundwater.

AOC-2: Potential USTs

Results:

The various properties have been developed and modified throughout the last 100-years according to aerial imagery and Sanborn Maps. Some of the former structures may have

utilized heating oil underground storage tanks (UST) or other underground storage structures.

Recommendations:

Boswell McClave recommends performing a geophysical survey throughout all subject properties in order to confirm the presence/absence of any USTs or other subsurface anomalies. Any anomalies should be investigated in accordance with the NJDEP's Technical Requirements that may include soil borings and/or test pits followed by sampling and laboratory analysis.

AOC-3: Off-Site Former UST Releases

Results:

The FirstSearch radius report identified the presence of off-site UST releases of gasoline and fuel oil nearby the Sites. An investigation of the NJDEP's NJ-GeoWeb GIS program did not identify any groundwater Classification Exemption Areas (CEA) near the subject properties.

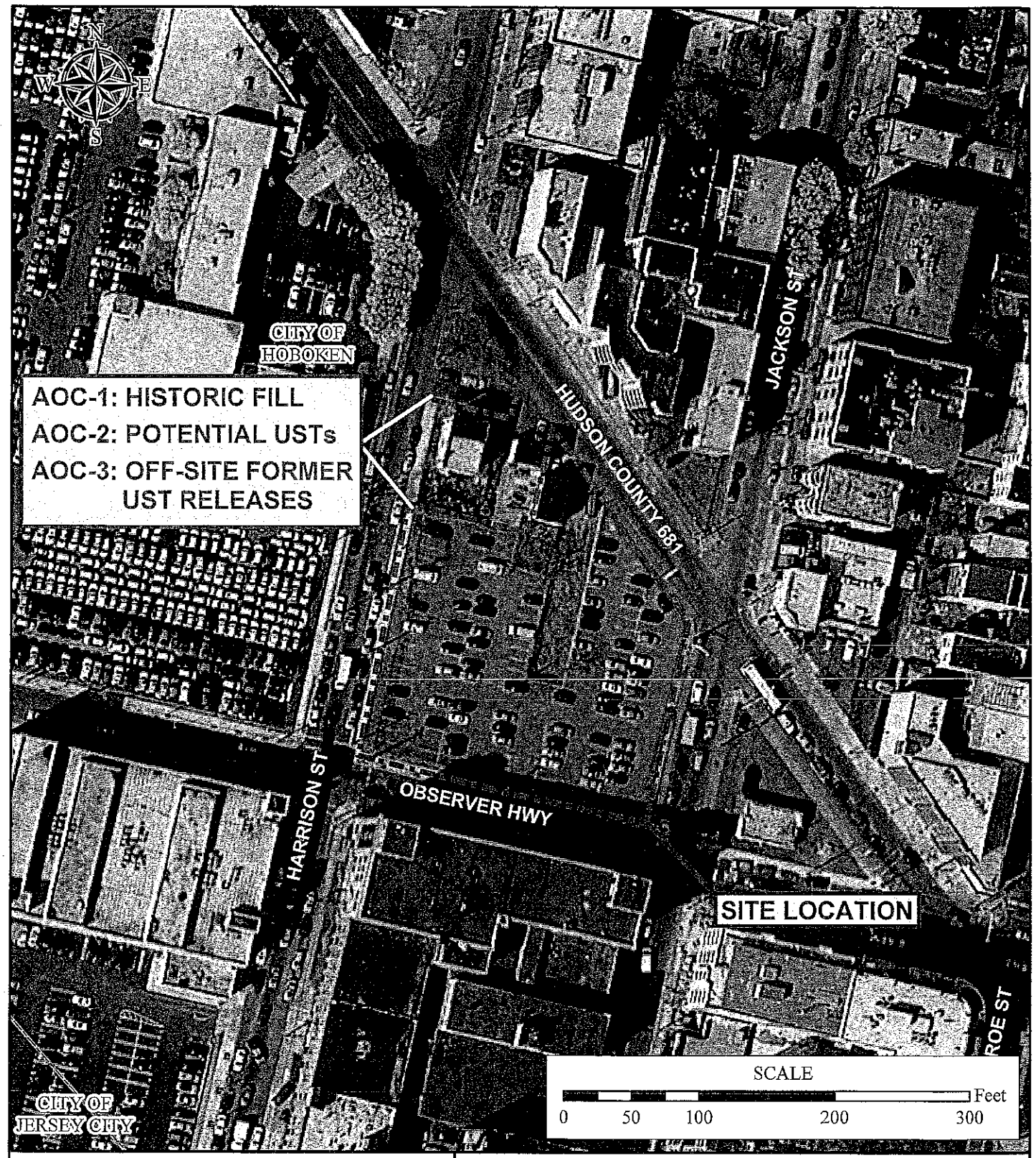
Recommendations:

Based on the age of the releases (~10 years ago), the potential contaminants have a low possibility of impacting the Sites therefore Boswell McClave recommends no further investigations for this AOC. Moreover it is the responsibility of the Responsible Party (RP) to investigate and delineate contamination migrating from their site. However if contamination definitively attributable to off-site sources is discovered during the investigation activities discussed above we recommend addressing the issue in accordance with the NJDEP's Technical Requirements.

R:\Munic\Hoboken\ho-458\Env\PA Report\REVISED_PA_Materials\PA Report_Revised (CEA Reviewed).doc

FIGURE 1

AOC Location Plan



LEGEND

AOC LOCATION BOUNDARIES

SOURCE:

HUDSON COUNTY ROADS, 2010
NJOIT COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJDEP, 2007 ORTHOPHOTOGRAPHY, (DISK 12 OF 13)
NJDOT ROAD DATA, 2010

PRELIMINARY ASSESSMENT REPORT

AOC LOCATION MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING

330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: CEA	SCALE: 1" = 100' DATE: JAN. 2012	JOB NO. HO-458 FIGURE AOC MAP

APPENDIX A

NJDEP Preliminary Assessment/Site Investigation Form

New Jersey Department of Environmental Protection
Site Remediation Program

PRELIMINARY ASSESSMENT / SITE INVESTIGATION

☐ Non-LSRP (Existing Cases) ☒ LSRP ☐ Subsurface Evaluator

Date Stamp
(For Department use only)

A Phase I or Phase II is not equivalent to a Preliminary Assessment, therefore, it will not be an acceptable substitution.

SECTION A. SITE NAME AND LOCATION

Site Name: Block 12, Lots 1-7, 9, and 11-18

List all AKAs:

Street Address: 57-69 Harrison Street, 51-59 Paterson Avenue, & 58-64 Jackson Street

Municipality: Hoboken City (Township, Borough or City)

County: Hudson Zip Code: 07030

Incident Number(s)/Com. Center Number(s):

Program Interest (PI) Number(s): Case Tracking Number(s):

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2.2 or 2.3(b):

State Plane Coordinates for a central location at the site: Easting: 619,035 Northing: 694,045

Municipal Block(s) and Lot(s):

Block #	12	Lot #	1, 2, 3, 4, 5, 6, 7, 9,	Block #	12	Lot #	11,12,13,14,15,16,
Block #	12	Lot #	17, & 18	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☒ No

If "Yes," please list the Case Manager:

SECTION C. REQUIRED TECHNICAL SUBMITTALS

	Not Applicable	Included in This Submission	Previously Submitted	Date of Submission	Date of Revised Submission
Immediate Environmental Concern Report	☒	☐	☐		
Immediate Response Action Plan	☒	☐	☐		
Preliminary Assessment Report	☐	☒	☐		
Receptor Evaluation	☒	☐	☐		
Site Investigation Report	☒	☐	☐		
Remedial Investigation/Remedial Action Work Plan	☒	☐	☐		
Feasibility Study Report	☒	☐	☐		
Response Action Outcome Report	☒	☐	☐		

SECTION D. SITE USE

Current Site Use (check all that apply)

☐ Industrial ☐ Agricultural
☒ Residential ☐ Park or recreational use
☒ Commercial ☒ Vacant
☐ School or child care ☒ Government
☐ Other:

Intended Future Site Use, if known (check all that apply)

☐ Industrial ☒ Park or recreational use
☐ Residential ☐ Vacant
☐ Commercial ☐ Government
☐ School or child care ☐ Future site use unknown

SECTION E. CASE TYPE: (check all that apply)

- ☐ Child Care Facility
- ☐ School facility
- ☐ School Development Authority (SDA)
- ☐ UST Grant/Loan
- ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☐ Administrative Consent Order (ACO)
- ☐ Remediation Agreement (RA)
- ☐ Brownfield Development Area (BDA)
- ☐ Site is located within an economic development priority area
- ☐ ISRA
- ☐ Regulated Underground Storage Tank (UST)
- ☐ Landfill
- ☐ Federal oversight (RCRA, CERCLA, DOD, TSCA, etc.)
- ☐ Coal Gas
- ☐ Chrome Site (Chromate chemical production waste)
- ☐ Spill Act Discharge
- ☐ Due Diligence with RAO
- ☐ Not Applicable
- ☒ Green Acres

SECTION F. PUBLIC FUNDS

Did the remediation utilize public funds? ☒ Yes ☐ No

If "Yes," check applicable: ☐ UST Grant ☐ UST Loan ☐ Brownfield Reimbursement Program ☐ HDSRF Grant ☐ HDSRF Loan ☐ Landfill Reimbursement Program ☐ Spill Fund ☐ Schools Development Authority ☒ Green Acres

SECTION G. GENERAL

1. Was an inspection of the site conducted? ☒ Yes ☐ No ☐ NA
   Date of the inspection 10/17/2011
2. Did the PA identify any areas of concern? ☒ Yes ☐ No ☐ NA
   If "Yes," please complete section H2.
3. What page or appendix is the site map indicating all of the areas of concern located? Figure 1
4. Did the PA identify any current or historic industrial, commercial, agricultural or residential use at the site dating back to the time the site was naturally vegetated? ☒ Yes ☐ No ☐ NA
   If "Yes," please complete section H1.
5. Prior to this submittal have any NFAs/RAOs been issued for this site? ☐ Yes ☒ No
   a. Does the site currently have a Deed Notice? ☐ Yes ☒ No
   b. Does the site currently have a CEA? ☐ Yes ☒ No
   c. Has an order of magnitude evaluation been performed? ☐ Yes ☒ No
6. Is the ground water at the site classified as a Class I Ground Water? ☐ Yes ☒ No
7. Are there potable wells on-site? ☐ Yes ☒ No
8. Has a well search been conducted pursuant to N.J.A.C. 7:26E-1.17? ☐ Yes ☒ No
   a. If "Yes," are there any potable wells within 200' of the AOCs listed in H2 or within 200' of the site boundary? ☐ Yes ☐ No
9. Is the site investigation complete? ☐ Yes ☒ No

SECTION H. SITE INFORMATION

H1. Current and Historic Operators/Operations (attach additional sheets as necessary)

Name of Operator	Type of Operation – e.g., dry cleaning, electro-plating, residence	Dates of Operation	
		Start	End
	*** Please See Attached Sheet ***		

H2. Areas of Concern (For PA or PA/SI Report, list each AOC; for SI Report, list only AOCs documented in this submittal.)

	Area of Concern	Currently Exists? ☒ if "Yes"	Formerly Existed? ☒ if "Yes"	Investigation: SI Conducted ☒ if "Yes"	Investigation: RI Proposed ☒ if "Yes"
1	Above ground storage tank and associated piping	☐	☐	☐	☐
2	Area of stressed vegetation	☐	☐	☐	☐
3	Area which receives flood or storm water from potentially contaminated areas	☐	☐	☐	☐
4	Chemical storage cabinet and closet	☐	☐	☐	☐
5	Compressor vent discharge	☐	☐	☐	☐
6	Discharge area pursuant to N.J.A.C. 7:1E	☐	☐	☐	☐
7	Discolored or spill area	☐	☐	☐	☐
8	Drainage swale and culvert	☐	☐	☐	☐
9	Drywell and sump	☐	☐	☐	☐
10	Dumpster	☐	☐	☐	☐
11	Electrical transformer and capacitor	☐	☐	☐	☐
12	Floor drain collection system	☐	☐	☐	☐
13	Former agricultural applied pesticide area	☐	☐	☐	☐
14	Hazardous material storage or handling area	☐	☐	☐	☐
15	Historic fill or any other fill material (Potential)	☒	☐	☐	☐
16	Hydraulic lift	☐	☐	☐	☐
17	Incinerator	☐	☐	☐	☐
18	Landfill or landfarm	☐	☐	☐	☐
19	Loading and unloading area	☐	☐	☐	☐
20	Non-contact cooling water discharge	☐	☐	☐	☐
21	Open area away from production area	☐	☐	☐	☐
22	Piping, above ground and below ground pumping station, sump and pit	☐	☐	☐	☐
23	Process area sink and piping which receive process waste	☐	☐	☐	☐
24	Rail car	☐	☐	☐	☐
25	Roof leader when process operations vent to the roof	☐	☐	☐	☐
26	Septic system, leachfield or seepage pit	☐	☐	☐	☐
27	Silo	☐	☐	☐	☐
28	Sprayfield	☐	☐	☐	☐
29	Storage pad including drum and/or waste storage	☐	☐	☐	☐
30	Storm sewer and spill containment collection system	☐	☐	☐	☐
31	Storm water detention pond and fire pond	☐	☐	☐	☐
32	Surface impoundment and lagoon	☐	☐	☐	☐
33	Surface water body	☐	☐	☐	☐
34	Underground piping including industrial process sewer	☐	☐	☐	☐
35	Underground storage tank and associated piping (Potential)	☒	☐	☐	☐
36	Waste pile as defined by N.J.A.C. 7:26	☐	☐	☐	☐
37	Waste water treatment	☐	☐	☐	☐
38	Other:	☐	☐	☐	☐

H3. Complete this section only if an ISRA waiver was issued or an ISRA NFA was issued under an expedited review or Limited Site Review.

ISRA Case #	Expedited Review	Limited Site Review	Remediation In Progress Waiver	Regulated UST Waiver	Date	Comments
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		

H4. REGULATED USTs: Complete if any underground storage tanks (USTs) on site are regulated Pursuant to N.J.A.C. 7:14B

a. Have all the regulated USTs on site been registered with the Department? ..... ☐ Yes ☐ No

b. Have all incidents related to regulated USTs been remediated/investigated? ..... ☐ Yes ☐ No

c. Have any USTs been removed on/after September 4, 1990? ..... ☐ Yes ☐ No

d. Including this submittal, has an SI/RI report been submitted for all USTs closed on/after September 4, 1990? ..... ☐ Yes ☐ No

H5. Compliance Check (Complete only if sampling of soil and/or ground water was conducted)

a. Identify the media if impacted above applicable standards/screening levels (check all that apply):

☐ soil ☐ ground water

Type of contamination in soil and ground water above applicable standards/screening levels (check all that apply):

Soil	Ground Water		Soil	Ground Water	
☐	☐	Volatile Organics	☐	☐	PCBs
☐	☐	Polycyclic Aromatic Hydrocarbons(PAHs)	☐	☐	Chromium
☐	☐	Acid Extractables	☐	☐	Dioxin
☐	☐	Base Neutrals (non-PAHs)	☐	☐	Mercury
☐	☐	Metals	☐	☐	Arsenic
☐	☐	Pesticides	☐	☐	Perchlorate, RDX, TNT, etc.
☐	☐	PHC	☐	☐	Other, specify _____

b. For all AOCs at which a SI was conducted, but no RI/RA is proposed:

1) Are any soil analytical results greater than the most stringent Direct Contact Soil Remediation Standards (DCSRS)? ..... ☐ Yes ☐ No

2) Are any soil analytical results greater than the default Impact to Ground Water Soil Screening Levels (IGWSSL)? ..... ☐ Yes ☐ No

3) Are any ground water analytical results greater than the Ground Water Quality Standards (GWQS)? ..... ☐ Yes ☐ No ☐ NA

4) Are any Method Detection Limits (MDLs) greater than the applicable soil and/or ground water standards or screening levels? ..... ☐ Yes ☐ No

5) Are any surface water analytical results greater than the most stringent, both human and ecological, Surface Water Quality Standards? ..... ☐ Yes ☐ No ☐ NA

6) Are any sediment analytical results above the screening levels? ..... ☐ Yes ☐ No ☐ NA

7) Are any analytical results above the vapor intrusion screening levels? ..... ☐ Yes ☐ No ☐ NA

8) Did the SI document, via a background investigation, outside the influence of onsite AOCs and operational areas, determine that:

a) contamination is migrating onto this site per N.J.A.C. 7:26E-3.7(g)? ..... ☐ Yes ☐ No ☐ NA

b) contamination is naturally occurring per N.J.A.C. 7:26E-3.10? ..... ☐ Yes ☐ No ☐ NA

9) Contamination is associated with an ongoing ISRA remediation..... ☐ Yes ☐ No ☐ NA

c. Have Alternative Remediation Standards (ARS) been utilized for Inhalation and/or Ingestion/Dermal pathways?..... ☐ Yes ☐ No

d. Have any site specific Impact to Groundwater Soil Remediation Standards (IGWSRS) been established?..... ☐ Yes ☐ No

Note: Complete if "Yes" to question b.) 1-4, c. or d. List affected AOC(s) below; attach additional sheets if necessary.

Area of Concern (from H2. above)	Exceeds DCSRS	Exceeds IGWSSL	Exceeds GWQS	MDLs > Standards	ARS	Site Specific IGWSRS	Comments
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	

SECTION I. ALTERNATIVE REMEDIATION STANDARD / DEVIATIONS

Alternative remediation standard

If proposing an alternative remediation standard pursuant to N.J.A.C. 7:26D-7.4, check here and attach the Alternative Soil Remediation Standard Application Form as an addendum. ☐

Deviation from regulations

If the Licensed Site Remediation Professional has varied from the Technical Rules, provide the citation(s) from which the remediation varied and the page(s) in the attached document where the rationale for the deviation is provided.

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

SECTION J. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: The City of Hoboken

Representative First Name: Brandy Representative Last Name: Forbes

Title: Director of Community Development Business Affiliation: _____

Phone Number: (201) 420-2233 Ext: _____ Fax: _____

Mailing Address: 94 Washington Street

City/Town: Hoboken State: New Jersey ZIP Code: 07030

Email Address: bforbes@hobokennj.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: _____ Date: 2/3/12

Name/Title: Brandy A. Forbes, AICP, PP/Director of Community Development **No Changes Since Last Submittal** ☐

SECTION K. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 550658

First Name: Stephen Last Name: Boswell

Phone Number: (201) 373-8905 Ext: Fax: (201) 641-1757

Mailing Address: 330 Phillips Avenue

City/Town: South Hackensack State: New Jersey Zip Code: 07606

Email Address: environmental@boswellengineering.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Stephen T. Boswell Date:

LSRP Name/Title: Stephen T. Boswell, Ph.D., P.E., SECB/President, CEO **No Changes Since Last Submittal** ☐

Company Name: Boswell McClave Engineering

Submit this form to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

Section H1: Current and Historic Operators/Opperations

BLOCK 12

Lot #	Name of Operator	Type of Operation – e.g., dry cleaning, electro-plating, residence	Dates of Operation	
			Start	End
1,2,3,4,&6	William McCune et. ux.	Unknown	-	9/11/1884
	The North Hudson County Railroad Company	Elevated Trolly Line Easment and Footing	9/11/1884	unknown
	Henery & Fieda Schneider	Parking Lot	unknown	1/15/1974
	Desbroses Garage Corp.	Private Parking Lot	1/15/1974	Current
5	William McCune et. ux.		-	9/11/1884
	The North Hudson County Railroad Company	Elevated Trolly Line Easment and Footing	9/11/1884	9/5/1954
	Public Service Electric & Gas	Undeveloped/Parking Lot	9/5/1954	7/21/1964
	Jocarlin Realty Company	Undeveloped/Parking Lot	7/21/1964	1/24/1973
	Henery & Fieda Schneider	Undeveloped/Parking Lot	1/24/1973	1/15/1974
	Desbroses Garage Corp.	Private Parking Lot	1/15/1974	Current
7	William Machut et. ux.	Residential	-	1/29/1906
	Ernst Blodow et. ux.	Residential/Vacant Building	1/29/1906	3/26/1920
	Thomas Jerkovich et. ux.	Vacant Building/Ice House/Smoke House	3/26/1920	4/12/1943
	The Home Owners' Loan Corporation	Undeveloped	4/12/1943	11/12/1943
	Digo Dan Legac, et. ux.	Undeveloped	11/12/1943	7/24/1944
	Anna Jerkovich	Undeveloped	7/24/1944	11/19/1953
	Elsie Musto	Undeveloped	11/19/1953	12/15/1980
	Alexander Rios, Jr.	Undeveloped	12/15/1980	7/12/1989
	V. Ponte & Sons, Inc.	Undeveloped	7/12/1989	12/3/1990
	Ponte Equities, Inc.	Undeveloped	12/3/1990	Current
9	Julin C. Reubel		-	2/1/1875
	The North Hudson County Railroad Company	Elevated Trolly Line Easment and Footing	2/1/1875	unknown
	Public Service Coordinated Transport	Undeveloped	unknown	12/20/1948
	The City of Hoboken	Undeveloped	12/20/1948	Current
11	William M. Sewell, Jr.	Residential	-	11/5/1979
	George Denaris & Mildred Denaris	Residential	11/5/1979	1/26/1998
	The Bankers Trust Company of California	Residential	1/26/1998	3/27/1998
	Mita Patel & Tanvi Patel	2-Family Residential	3/27/1998	Current

BLOCK 12 Continued

Lot #	Name of Operator	Type of Operation – e.g., dry cleaning, electro-plating, residence	Dates of Operation	
			Start	End
12	John Garr et. ux.	Unknown	-	10/5/1808
	Albert Albet Sr.	Residential	10/5/1808	unknown
	Anna Herbermann & Frederick Habermann	Residential	unknown	8/9/1939
	The Mayor and Council of the City of Hoboken	Residential	8/9/1939	8/4/1942
	Anna Busch	Residential	8/4/1942	8/31/1957
	Edward J. Buchanan & Patricia Buchanan	Residential/Storage	8/31/1957	5/17/1971
	William Burchill & Elizabeth Burchill	Residential/Storage	5/17/1971	1/13/1989
	V. Ponte & Sons, Inc.		1/13/1989	12/3/1990
	Ponte Equities, Inc.	Undeveloped	12/3/1990	Current
13&14	August Schmidt	Residential	-	5/15/1906
	Robert Fredde	Residential	5/15/1906	6/20/1940
	The Mayor and Council of the City of Hoboken	Residential	6/20/1940	12/21/1948
	Anna Busch	Residential	12/21/1948	12/22/1948
	Anthony Cavallo	Residential	12/22/1948	1/27/1952
	Frederick Charles Keirle & Sophie Keirle	Residential	1/27/1952	8/17/1964
	John J. Backus & Lorain Backus	Residential	8/17/1964	1/8/1966
	Gertude M. Backus	Residential	1/8/1966	3/29/1966
	William & Barbara Curran	Residential	3/29/1966	5/23/1966
	Prior H. Schlendorf & Barbara Schlendorf	Residential	5/23/1966	8/9/1985
	V. Ponte & Sons, Inc.	Residential/Private Parking Lot	8/9/1985	12/3/1990
	Ponte Equities, Inc.	Private Parking Lot	12/3/1990	Current
15	John J. Ryan et. ux.	Residential	-	7/22/1923
	John F. Erbeck	Flat (Appartment over Shop)	7/22/1923	12/20/1946
	Frank C. Bogert	Flat (Appartment over Shop)	12/20/1946	7/23/1947
	Angelica Kiesche	Flat (Appartment over Shop)	7/23/1947	1/20/1973
	Lawrence J. Newman	Flat (Appartment over Shop)	1/20/1973	7/28/1980
	Julius Kropf	Flat (Appartment over Shop)	7/28/1980	8/13/1982
	Nicholas Valdes & Brunilda Valdes	Flat (Appartment over Shop)	8/13/1982	12/5/1989
	Unity Environmental Corp.	Private Parking Lot	12/5/1989	Current
16,17,&18	William McCune et. ux.	Unknown	-	9/11/1884
	The North Hudson County Railroad Company	Elevated Trolly Line Easment and Footing	9/11/1884	unknown
	Henery & Fieda Schneider	Parking Lot/Undeveloped	unknown	1/15/1974
	Desbroses Garage Corp.	Private Parking Lot	1/15/1974	Current

APPENDIX B

Green Acres PA Checklist

PRELIMINARY ASSESSMENT CHECKLIST

To ensure that your Preliminary Assessment and Preliminary Assessment Report meet the minimum requirements as defined in the Technical Requirements for Site Remediation, N.J.A.C. 7:26E-3.1 through 3.2, and to avoid delays to our project that may result from submitting incomplete information, the following checklist is provided.

BEFORE SUBMITTING YOUR PRELIMINARY ASSESSMENT REPORT TO THE GREEN ACRES PROGRAM, HAVE YOU:

1. Performed a diligent inquiry?

☑

Please note: Diligent inquiry is defined in N.J.A.C. 7:26E-1.8 as: Conducting a diligent search of all documents which are reasonably likely to contain information related to the object of the inquiry, which documents are in such person's possession, custody or control, or in the possession, custody or control of any other person from whom the person conducting the search has a legal right to obtain such documents; and

Making reasonable inquiries of current and former employees and agents whose duties include or included any responsibility for hazardous substances, hazardous wastes, hazardous constituents, or pollutants, and any other current and former employees or agents who may have knowledge or documents relevant to the inquiry.

2. Presented a history of ownership of the property, from the time the site was naturally vegetated or utilized as farmland in accordance with N.J.A.C. 7:26E-3.1 (c).

☑

Please note: N.J.A.C. 7:26E-3.1(c) 1.i., states that site history information shall be obtained from sources including, but not limited to, the following:

(i.) Sanborn Fire Insurance Maps;
(ii.) MacRae's Industrial Directory;
(iii.) Title and Deed;
(iv.) Site plans and facility as-built drawings;
(v.) The Soil Survey for the County in which the property is situated; and,
(vi.) Federal, state, county and local government files.

3. Presented a brief description of any past industrial/commercial operations conducted on site by each owner and operator?

☑

3a. Listed the hazardous substances, hazardous wastes, hazardous constituents and pollutants that are or were historically present on the site?

☑

3b. Identified the method of wastewater discharge (sanitary and/or industrial waste), and mapped any/all discharge and disposal points on a scaled site map?

☑

3c. Identified the source of potable and/or industrial process water?

☑

4. Presented a description of aerial photographic interpretation for the period dating from 1932, or the earliest photograph available, to the present?

☑

Please note: Although N.J.A.C. 7:26E-3.1(c) 1.vi. requires an interpretation of historic aerial photography for sites 2 acres or larger, the Green Acres Program considers the protection of public health and the expenditure of public funds to be justification for requiring work to be performed beyond the minimum technical requirements (N.J.A.C. 7:26E-1.7). Therefore, interpretation of the aerial photographic history of the site must be performed, regardless of site size.

Note also, that N.J.A.C. 7:26E-3.1(c) 1.vi, states, in part, that "The photographic history shall date back to 1932 *or to the earliest photo available*." This minimum requirement must not be interpreted to mean *locally* available. N.J.A.C. 7:26E 3.1 (c) 1.vi. advises of the *availability* of the sitewide aerial photographic coverage at the Department's Tidelands Management Program, Aerial Photo Library. Photographic coverage for most of the state is available to 1940.

5. Identified any current or prior remediation activities on the site, including the name of any governmental agency involved and case identification number?

☑

6. Presented a list of any potential areas of concern, identified during the performance of the preliminary assessment?

☑

Please note: N.J.A.C. 7:26E-1.8, defines areas of concern as areas in which pollutants, hazardous substances or wastes may have been discharged to the environment. See the Technical Requirements for Site Remediation for a complete listing of areas of concern.

6a. Presented a recommendation, per N.J.A.C.7:26E-3.2(a)4, for each area of concern identified at the site that either:

- the area is potentially contaminated and thus additional investigation or remediation is required; or
- the area of concern is not believed to contain contaminants above the applicable remediation standards, and provided documentation to support this belief?

☑

7. Listed any current or prior Federal, state and local environmental permits?

☑

8. Listed any administrative, civil, or criminal enforcement actions for alleged violations of environmental laws which may have resulted in an environmental impact on the site?

☑

9. Conducted a site visit to confirm the findings of the review of historic information obtained through diligent inquiry?

☑

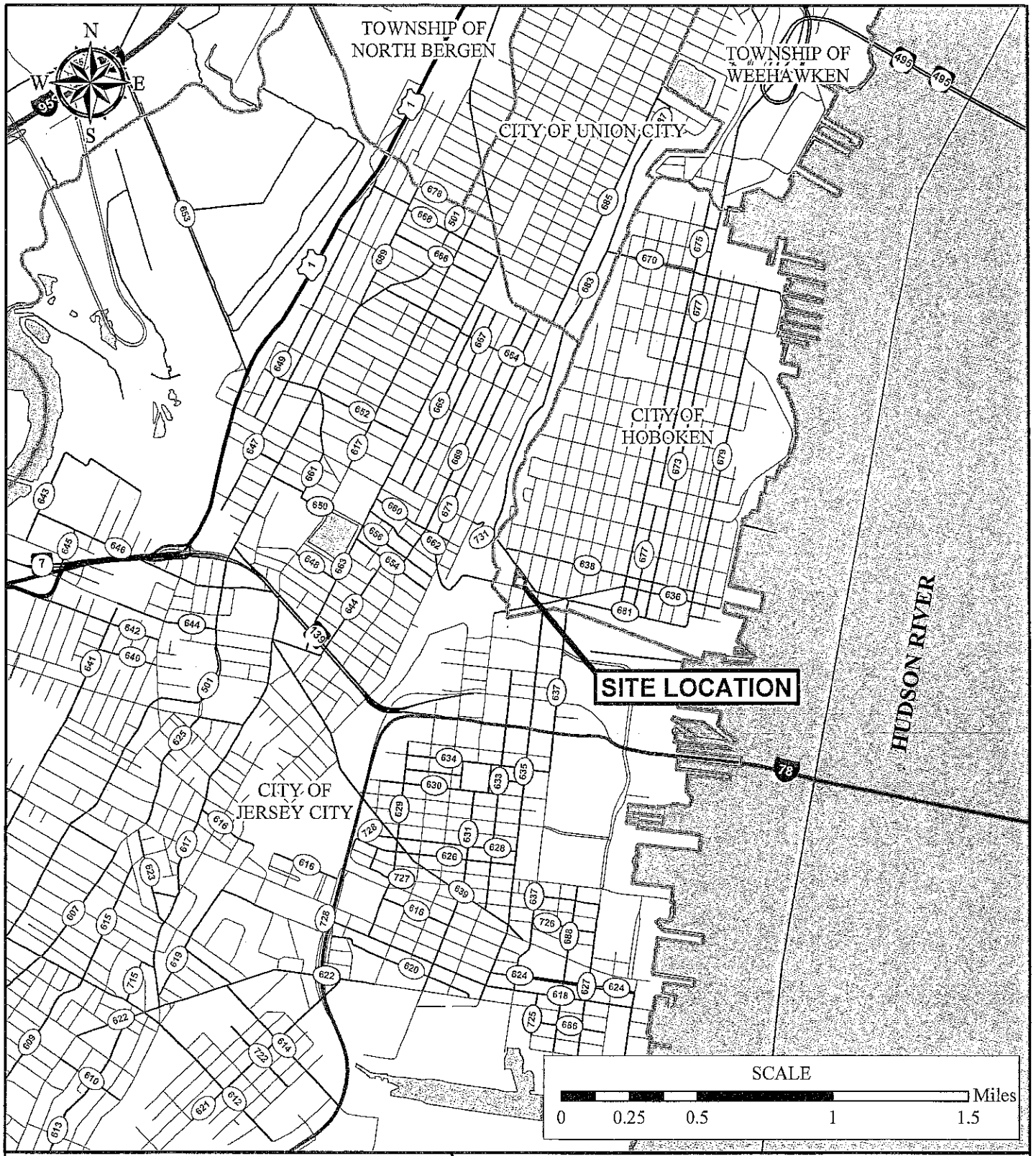
10. Provided a copy of the United States Geologic Survey 7.5 minute topographic quadrangle, or copy of a portion thereof, that includes the site?

☑

APPENDIX C

Site Maps

Location Maps



LEGEND

- SITE BOUNDARY
- MUNICIPAL BOUNDARY
- WATER BODY
- ARTERIAL STREET
- COUNTY ROAD
- STATE HIGHWAY
- FEDERAL HIGHWAY
- INTERSTATE

SOURCE:

HUDSON COUNTY ROADS, 2010
NJOIT COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJDEP, BGIS, WATER BODIES, 2004

PRELIMINARY ASSESSMENT REPORT

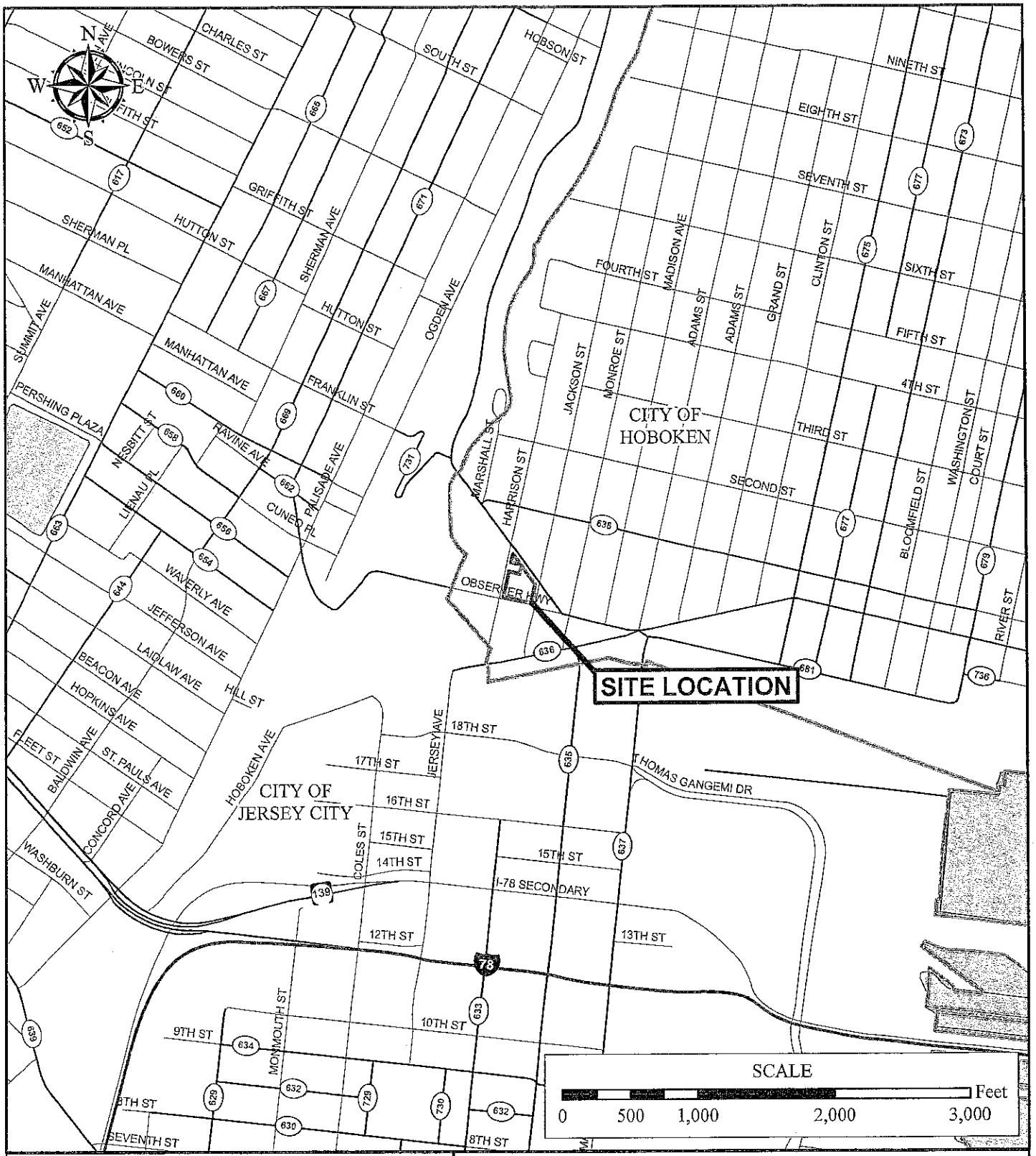
LOCATION (-) MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1/2 MILE DATE: SEPT. 2011	JOB NO. HO-458 FIGURE LOCATION (-)



LEGEND

- SITE BOUNDARY
- MUNICIPAL BOUNDARY
- WATER BODY
- ARTERIAL STREET
- COUNTY ROAD
- STATE HIGHWAY
- FEDERAL HIGHWAY
- INTERSTATE

SOURCE:

HUDSON COUNTY ROADS, 2010
NJOIT COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJDEP, BGIS, WATER BODIES, 2004

PRELIMINARY ASSESSMENT REPORT

LOCATION (+) MAP

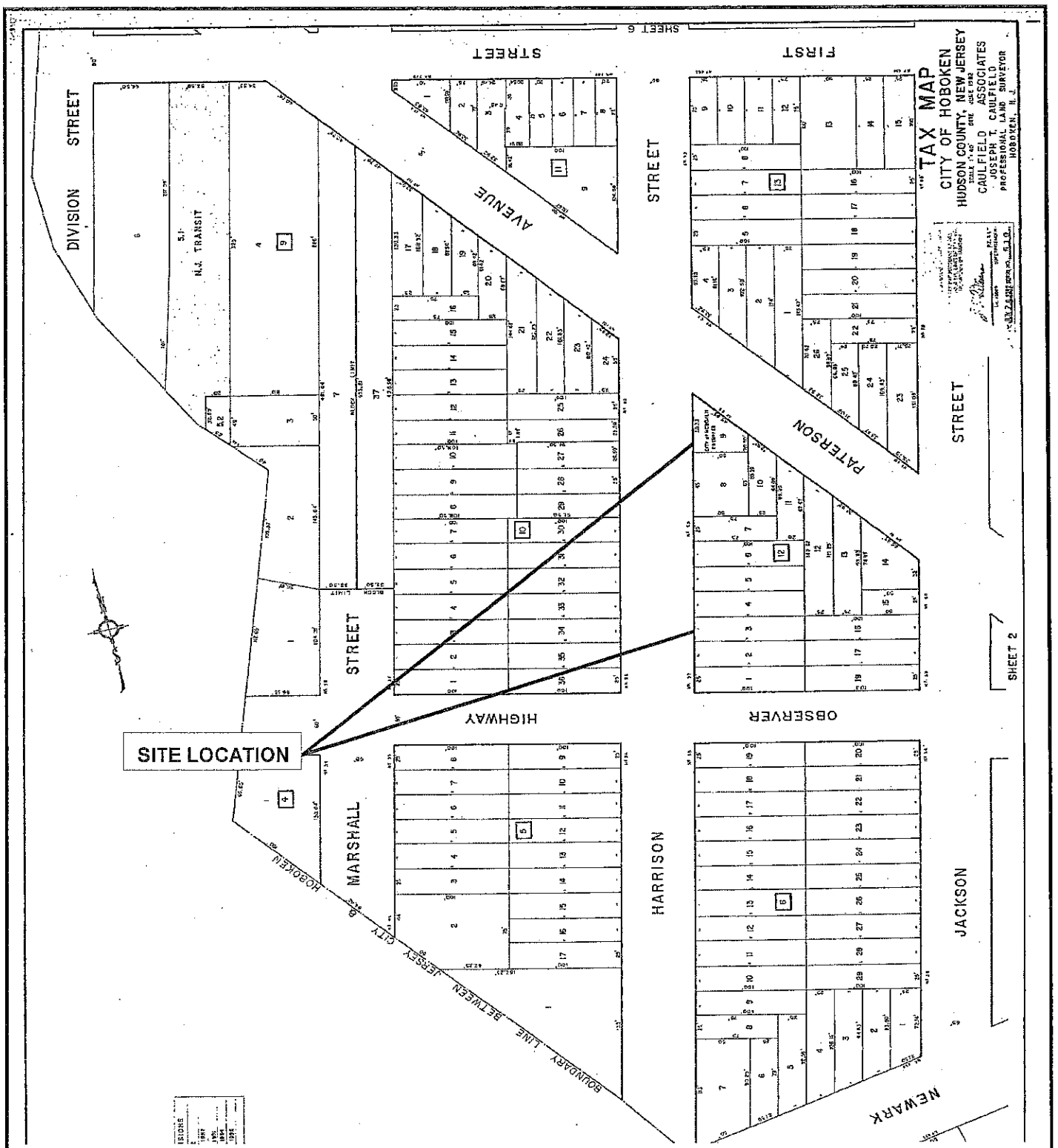
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1,000' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE LOCATION (+)

Tax Map



SOURCE:
NJ PARCEL MAP ONLINE v1.0.4

TAX MAP
BLOCK 12, LOTS 1-18

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: CEA	DATE: SEPT. 2011	TAX

Historic Fill Map

LEGEND

SITE BOUNDARIES

MUNICIPAL BOUNDARIES

HISTORIC FILL

FILL AREAS

NON-FILL AREAS

SOURCE:
NJDEP, BGIS, HISTORIC FILL DATASET, 2005
NJOIT COUNTY AND MUNICIPALITY BOUNDARIES, 2010
NJDEP ORTHOPHOTOGRAPHY (Disk 12 of 13), 2007

PRELIMINARY ASSESSMENT REPORT

HISTORIC FILL MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

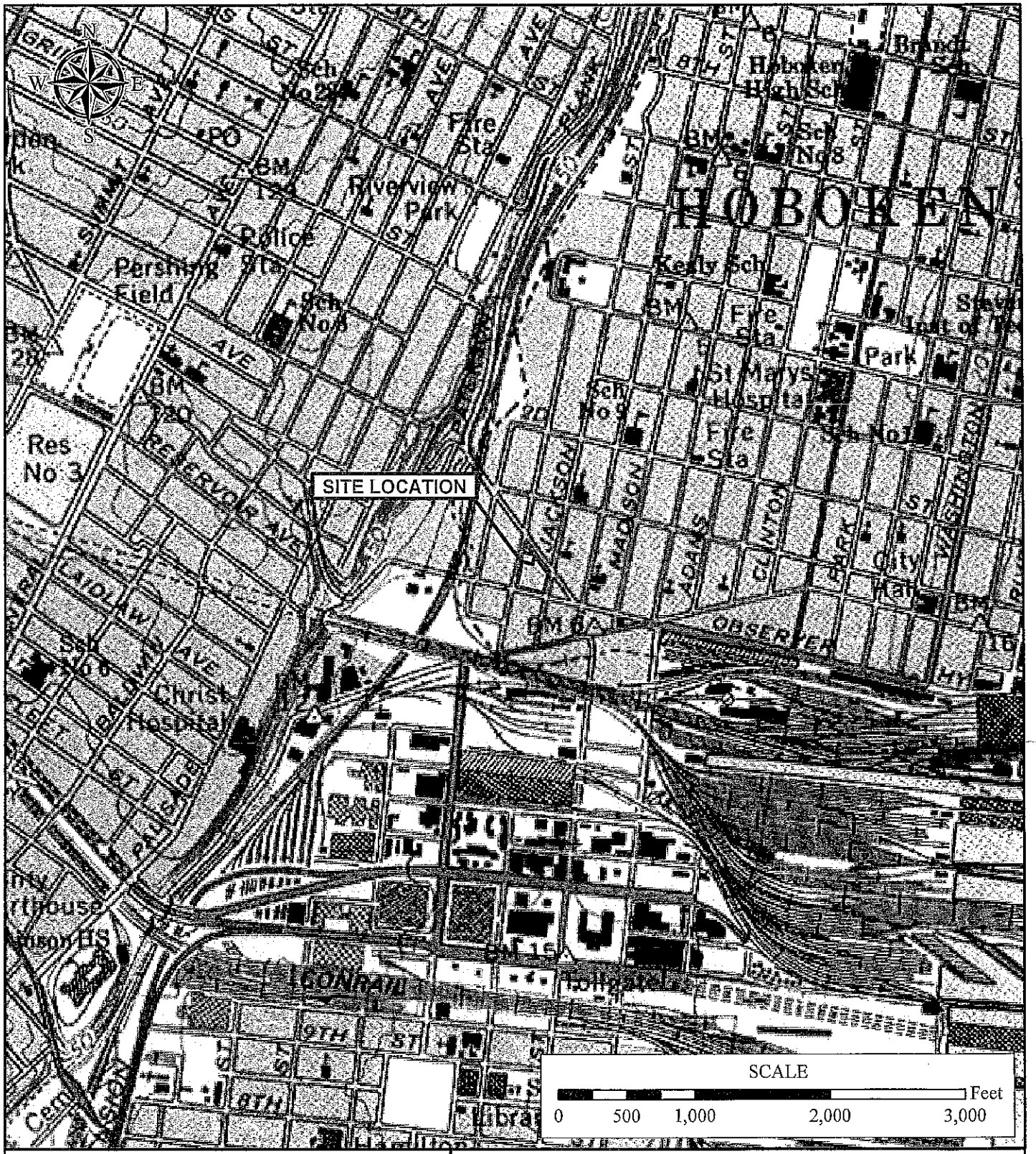
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 800' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE HIST. FILL

APPENDIX D

United States Geological Survey (USGS) Topographic Quadrangle Map



SITE BOUNDARIES

SOURCE: USGS JERSEY CITY QUADRANGLE TOPOGRAPHIC MAP

NJ STATE PLANE COORDINATES:

EASTING: 619,035
NORTHING: 694,045

PRELIMINARY ASSESSMENT REPORT

U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1,000' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE USGS

APPENDIX E

Site Photodocumentation

BOSWELL MCCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

CLIENT NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
City of Hoboken	City of Hoboken, Hudson County, New Jersey	Block 12, Lots 1-7, 9 and 11-18	HO-458

Photo No. 1.

Description:
A privately-owned parking lot occupies the majority of the southern portion of the Site. Puddles show low spots in asphalt. The topographic irregularities could possibly indicate former building foundations.

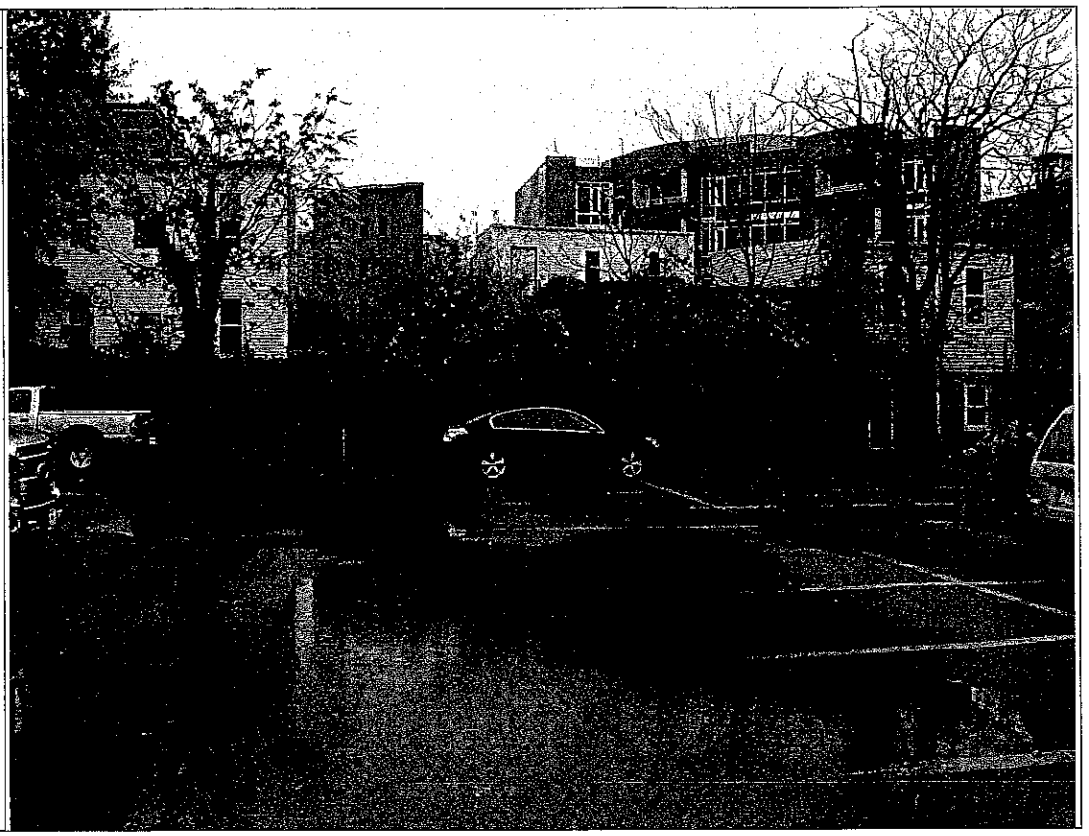


Photo No. 2.

Description:
View of pre-existing concrete foundation beneath the asphalt paved parking lot. A concrete sidewalk is seen at the photograph's right.

CLIENT NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
City of Hoboken	City of Hoboken, Hudson County, New Jersey	Block 12, Lots 1-7, 9 and 11-18	HO-458

Photo No. 3.

Description:
Raised rectangular area in asphalt shows approximate outline of former apartment building foundation. View facing east toward Jackson Street.

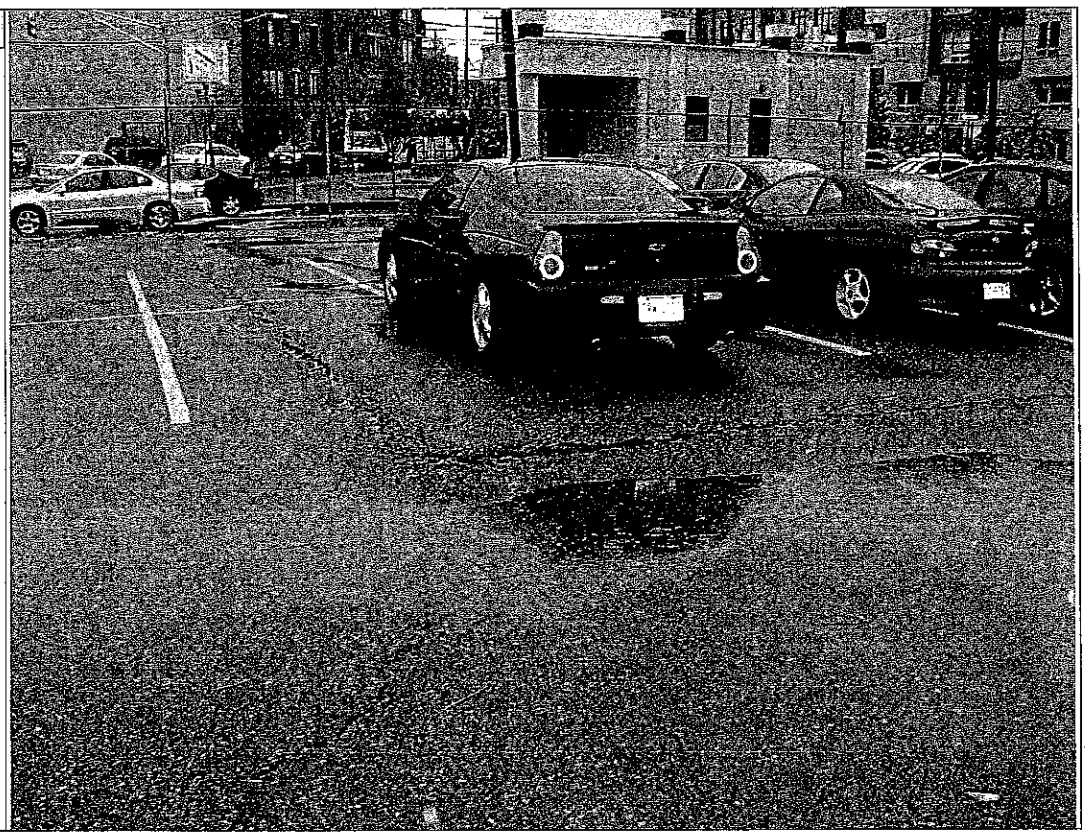
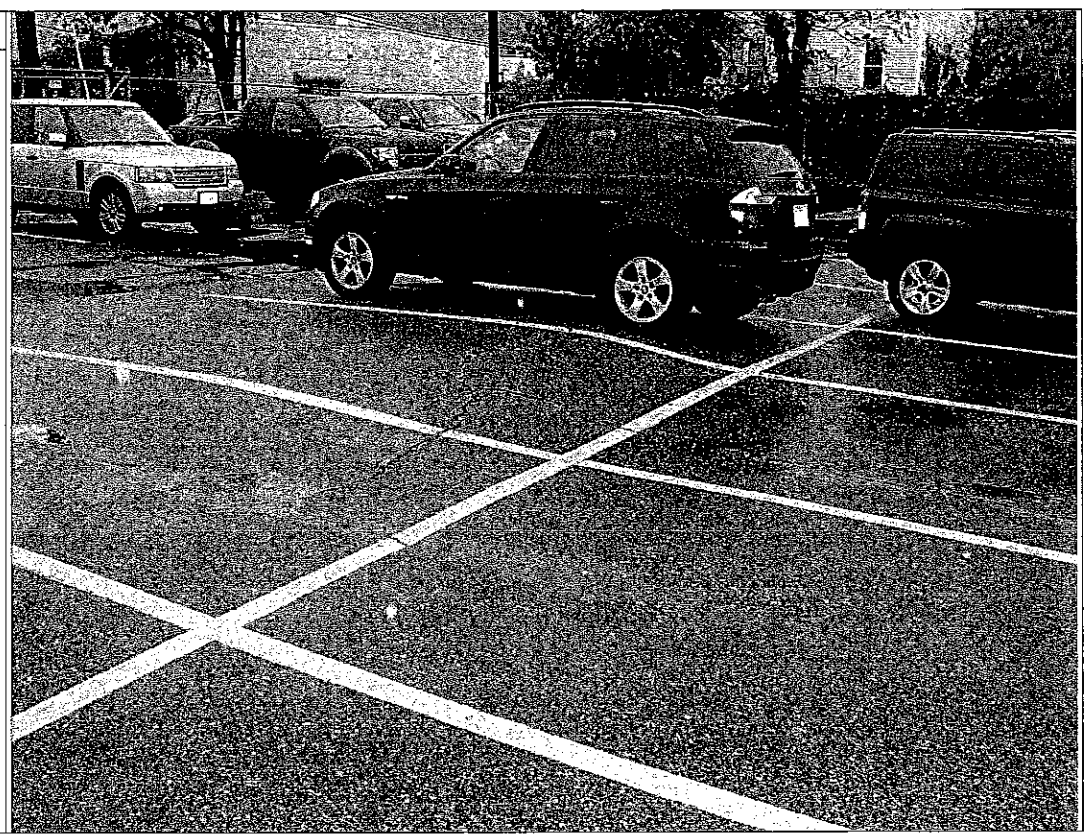


Photo No. 4.

Description:
Second raised area observed in the parking lot at western portion of site, view facing north.



CLIENT NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
City of Hoboken	City of Hoboken, Hudson County, New Jersey	Block 12, Lots 1-7, 9 and 11-18	HO-458

Photo No. 5.

Description:
Photograph of lawn area containing several trees at the north end of Lot 9. View facing west along Paterson Avenue.

Photo No. 6.

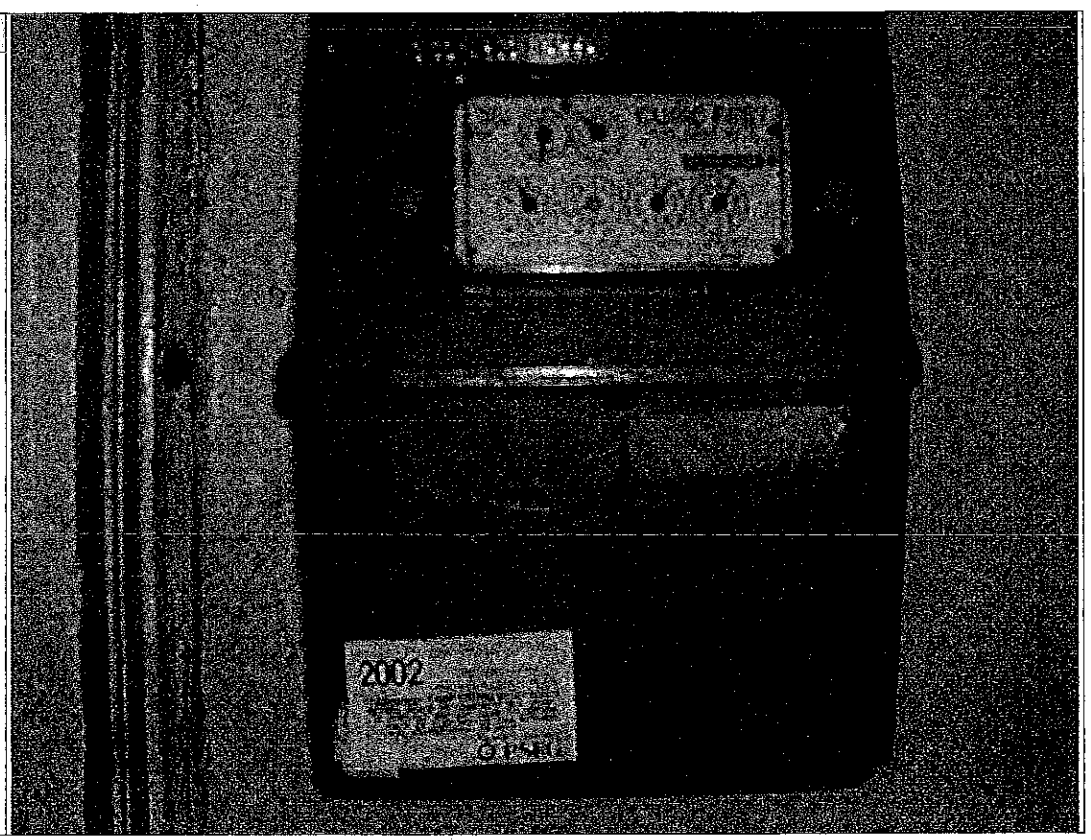
Description:
View facing south of a 2-story, 2-family residential dwelling at 59 Paterson Avenue, Lot 11. Structure did not contain a basement or crawl space.

Photo No. 7.

Description:
Backyard of residence at 59 Paterson Avenue (Lot 11). Yard is grass covered and no evidence of USTs were observed.

Photo No. 8.

Description:
59 Paterson Avenue (Lot 11) is currently heated by natural gas, based on presence of PSE&G gas meters.



BOSWELL MCCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

CLIENT NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
City of Hoboken	City of Hoboken, Hudson County, New Jersey	Block 12, Lots 1-7, 9 and 11-18	HO-458

Photo No. 9.

Description:
View facing south of vacant Lot 12. Parcel contains concrete rubble concealed by grass.

APPENDIX F

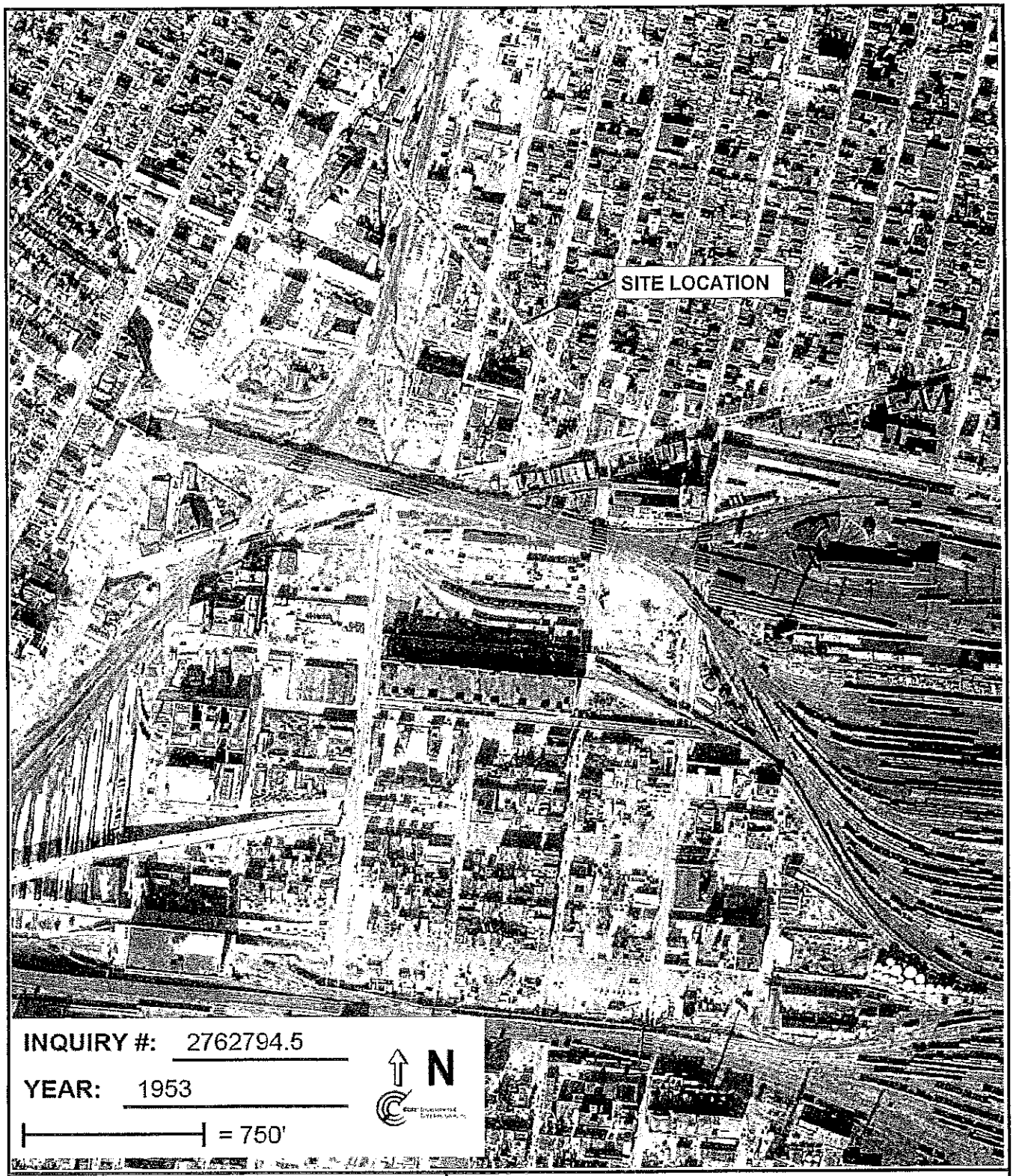
Aerial Photographs

SOURCE: EDR AERIAL PHOTOGRAPHY PRINT SERVICE
YEAR: 1943

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	AERIAL PHOTO 1



SOURCE: EDR AERIAL PHOTOGRAPHY
PRINT SERVICE
YEAR: 1953

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	AERIAL PHOTO 2

SOURCE: EDR AERIAL PHOTOGRAPHY PRINT SERVICE
YEAR: 1966

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

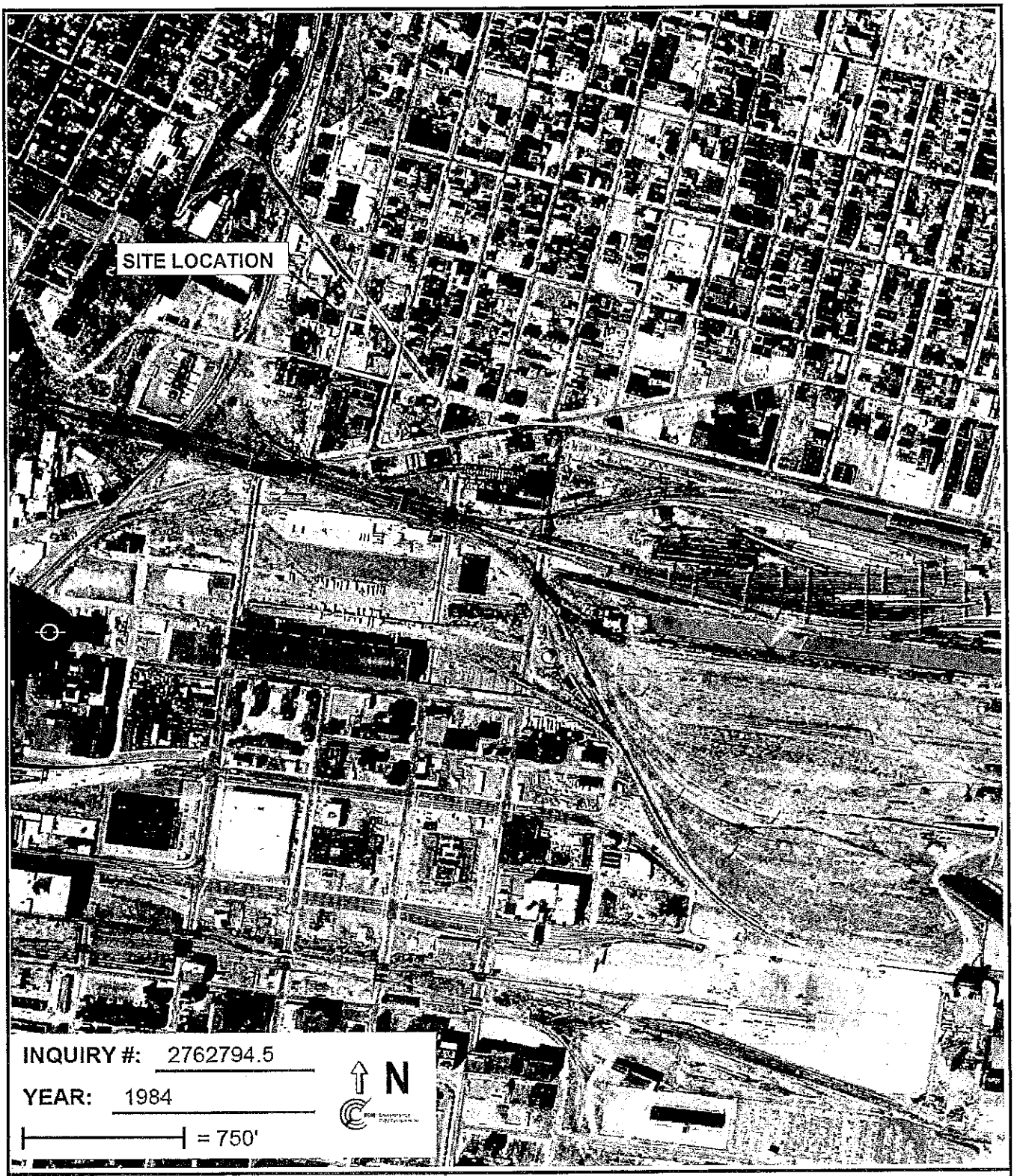
DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	AERIAL PHOTO 3

SOURCE: EDR AERIAL PHOTOGRAPHY PRINT SERVICE
YEAR: 1975

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	AERIAL PHOTO 4



SOURCE: EDR AERIAL PHOTOGRAPHY
PRINT SERVICE
YEAR: 1984

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	AERIAL PHOTO 5

SOURCE: EDR AERIAL PHOTOGRAPHY PRINT SERVICE
YEAR: 1994

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	AERIAL PHOTO 6

SOURCE: EDR AERIAL PHOTOGRAPHY PRINT SERVICE
YEAR: 1995

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	AERIAL PHOTO 7

SOURCE: EDR AERIAL PHOTOGRAPHY
PRINT SERVICE
YEAR: 2006

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

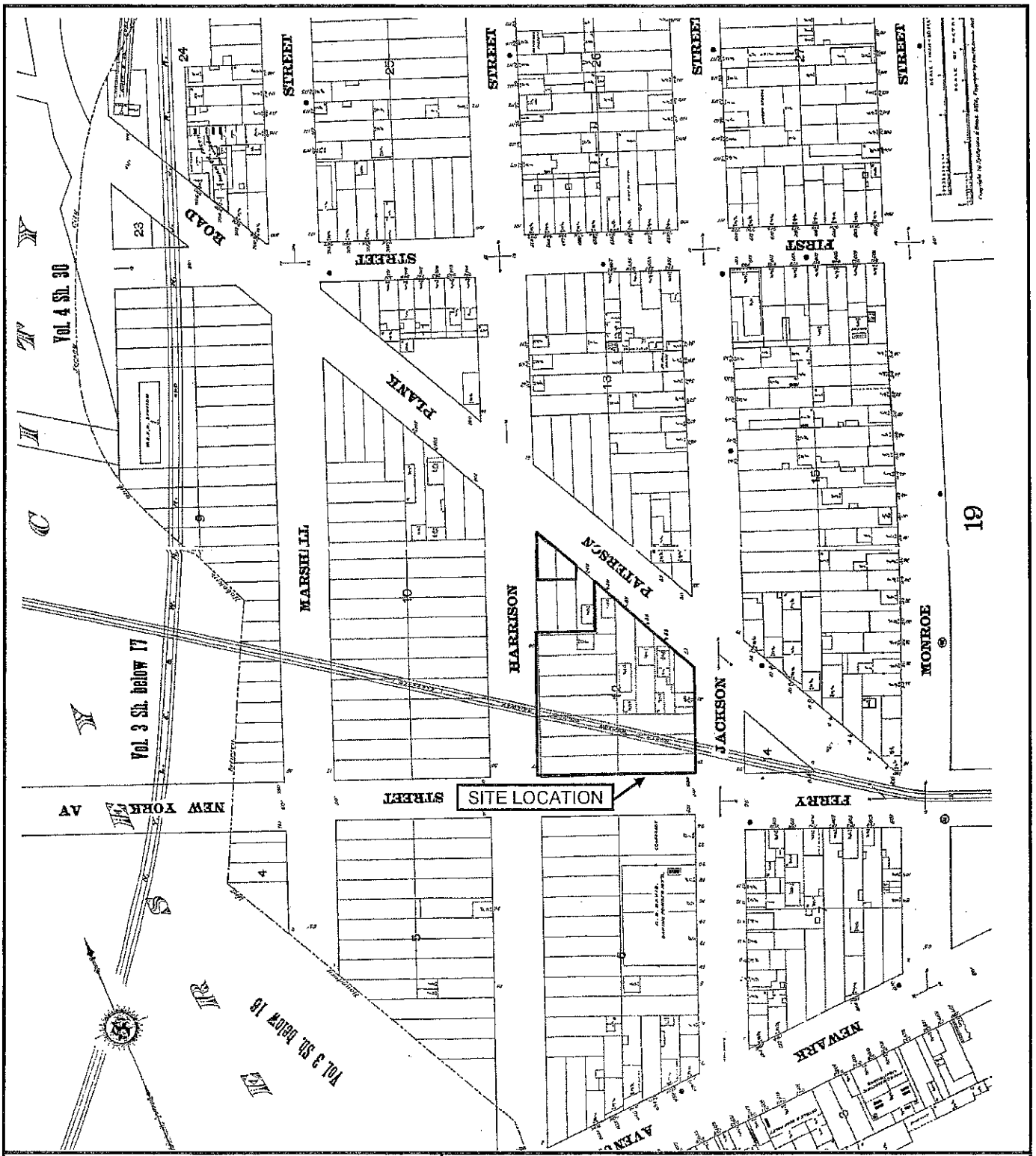
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	AERIAL PHOTO 8

APPENDIX G

Sanborn Fire Insurance Maps

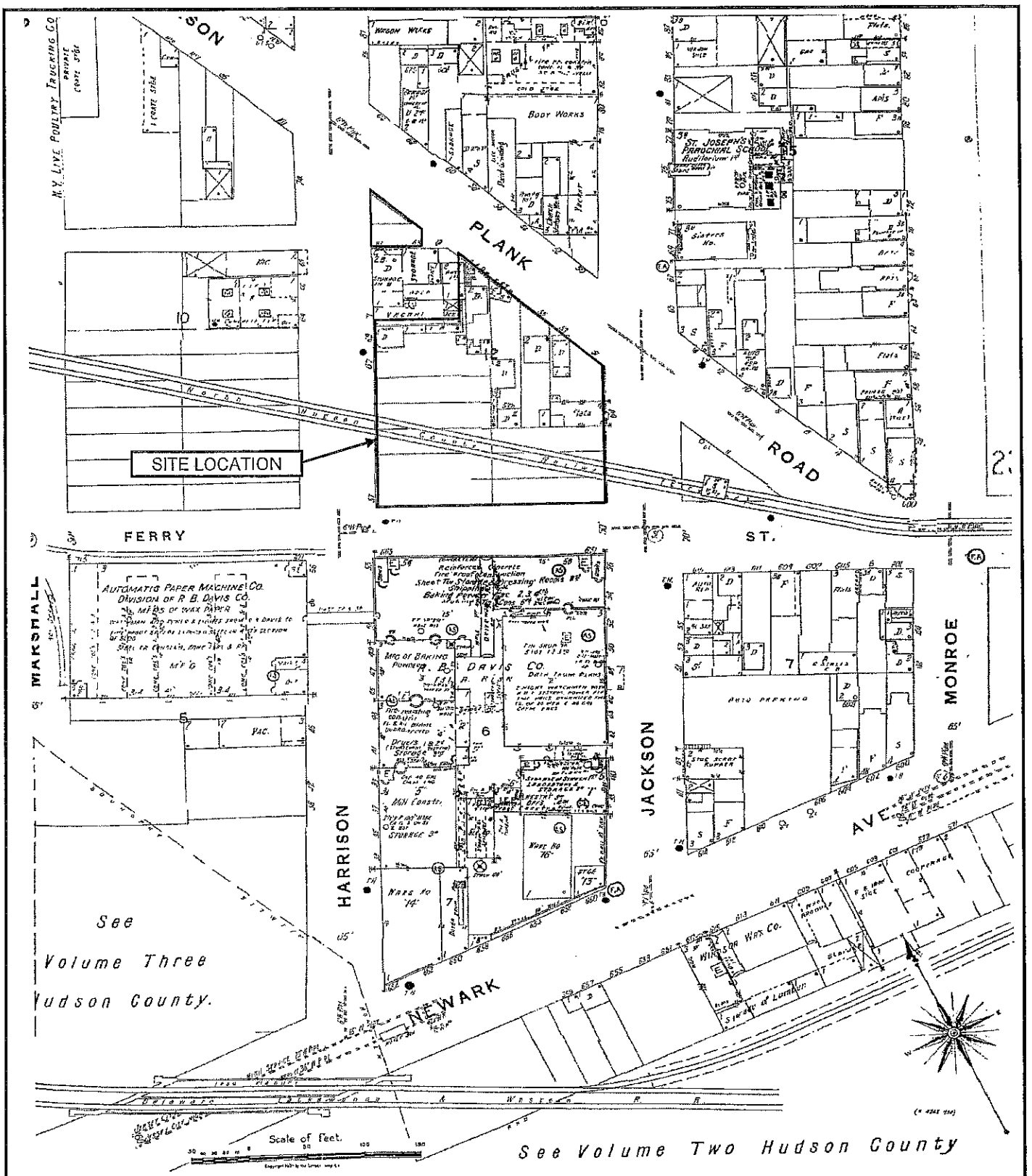


SOURCE: FIRSTSEARCH SANBORN MAPS
YEAR: 1891

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT 2011	SANBORN 1891

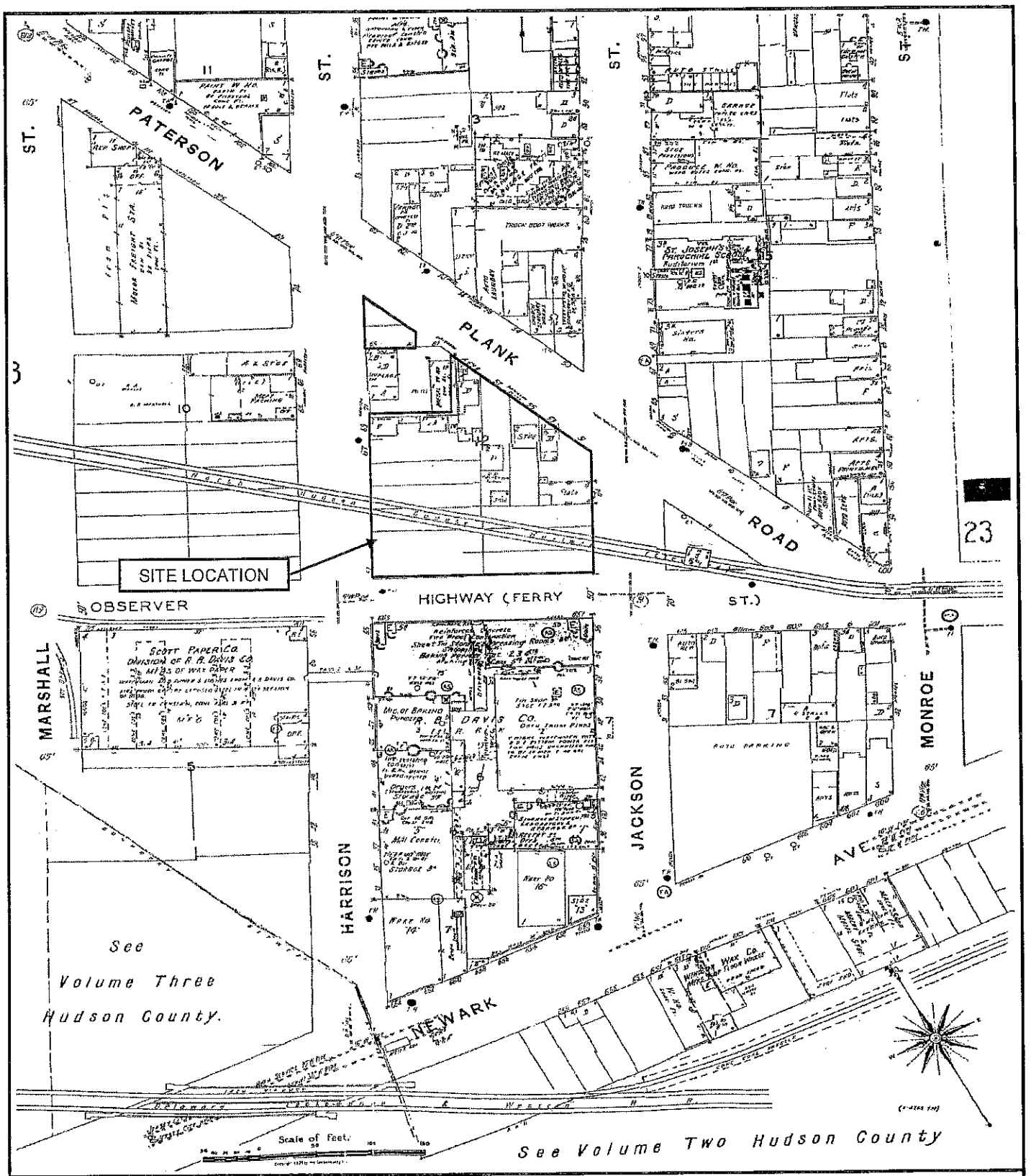


SOURCE: FIRSTSEARCH SANBORN MAPS
YEAR: 1938

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT 2011	SANBORN 1938



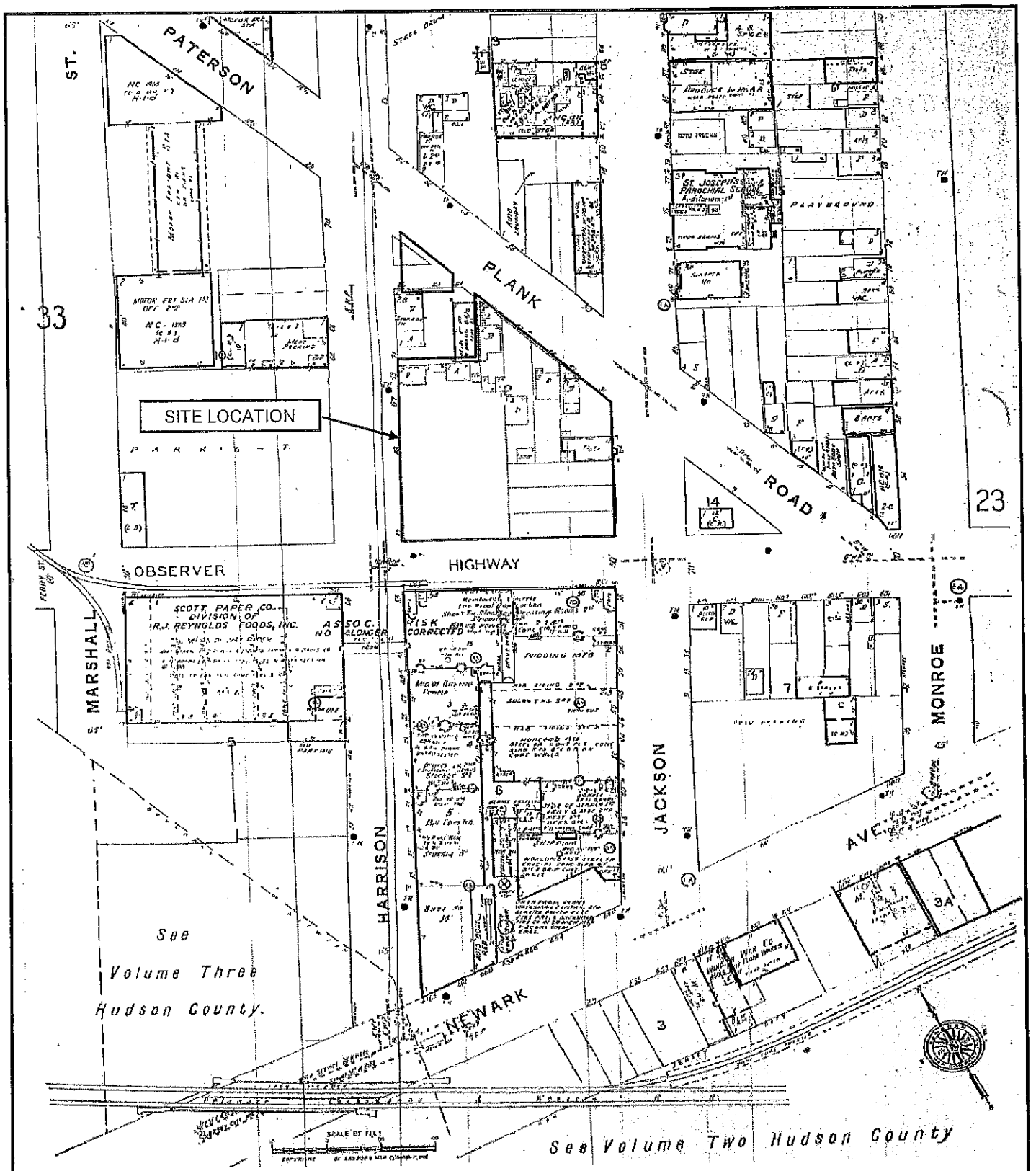
SOURCE: FIRSTSEARCH SANBORN MAPS
YEAR: 1951

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT 2011	SANBORN 1951

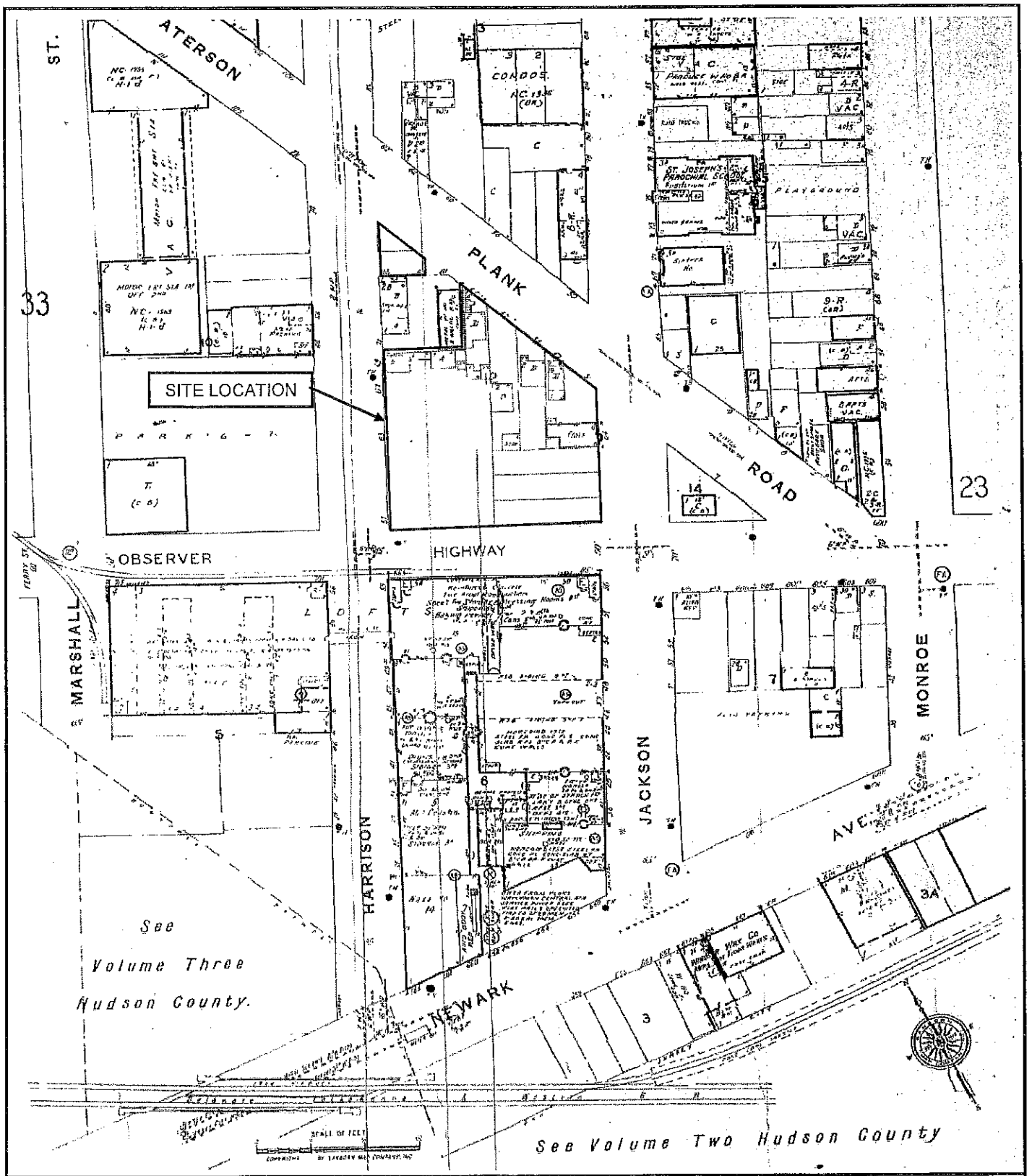


SOURCE: FIRSTSEARCH SANBORN MAPS
YEAR: 1979

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT 2011	SANBORN 1979

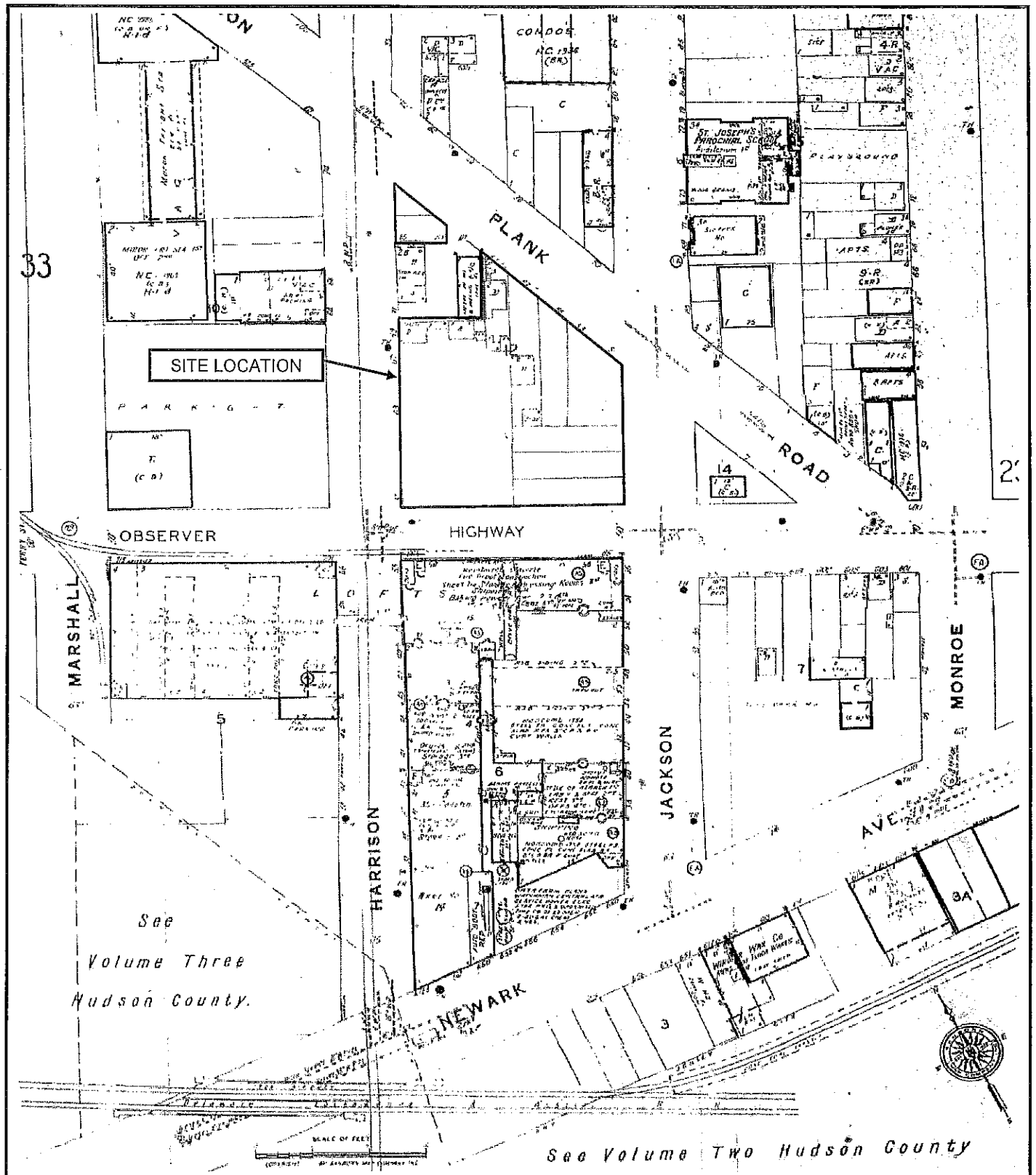


SOURCE: FIRSTSEARCH SANBORN MAPS
YEAR: 1988

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT 2011	SANBORN 1988



SOURCE: FIRSTSEARCH SANBORN MAPS
YEAR: 1990

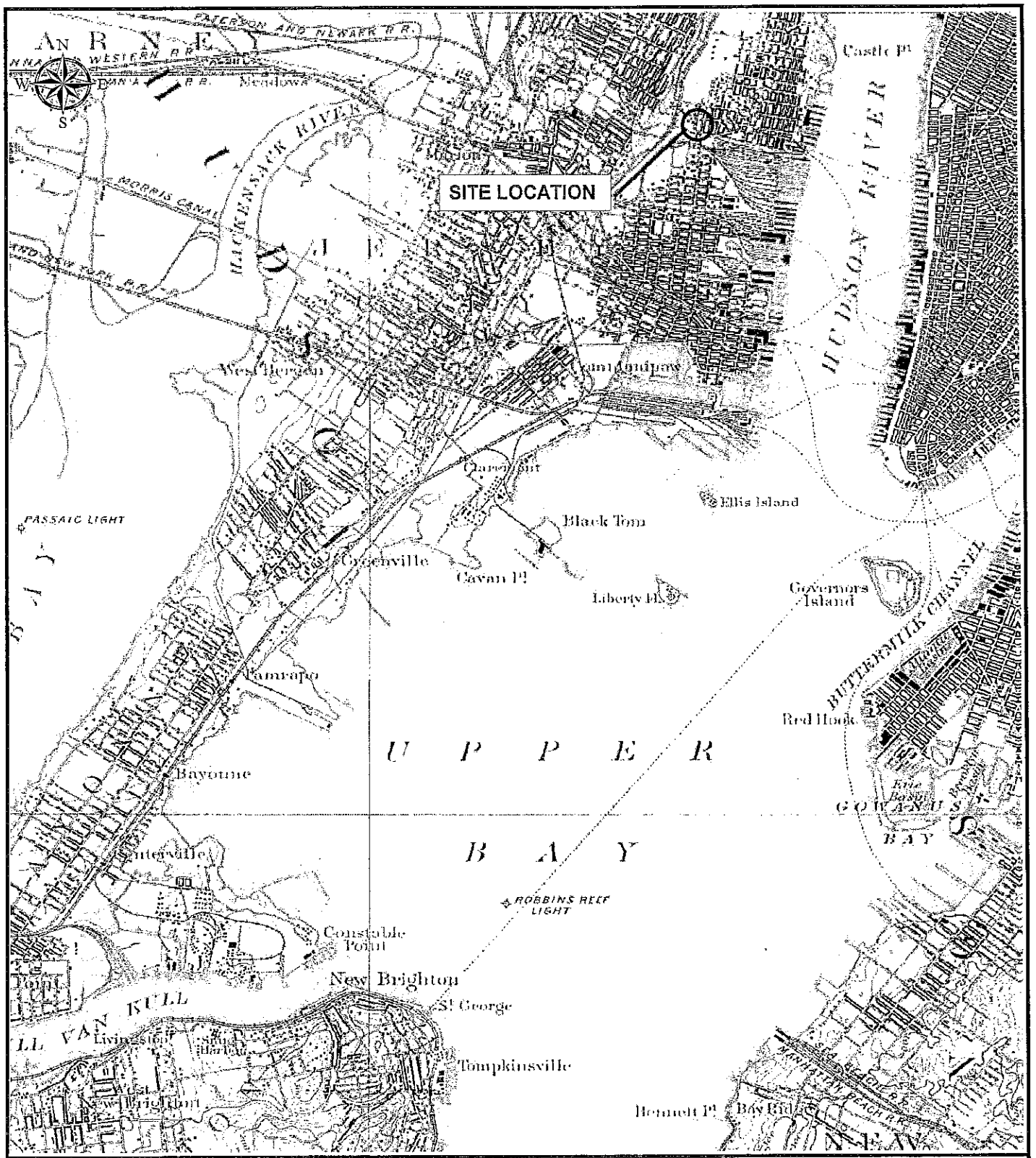
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: AS SHOWN	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT 2011	SANBORN 1990

APPENDIX H

Historic Topographic Maps



SOURCE:
ENVIRONMENTAL DATA RESOURCES, INC. (EDR)

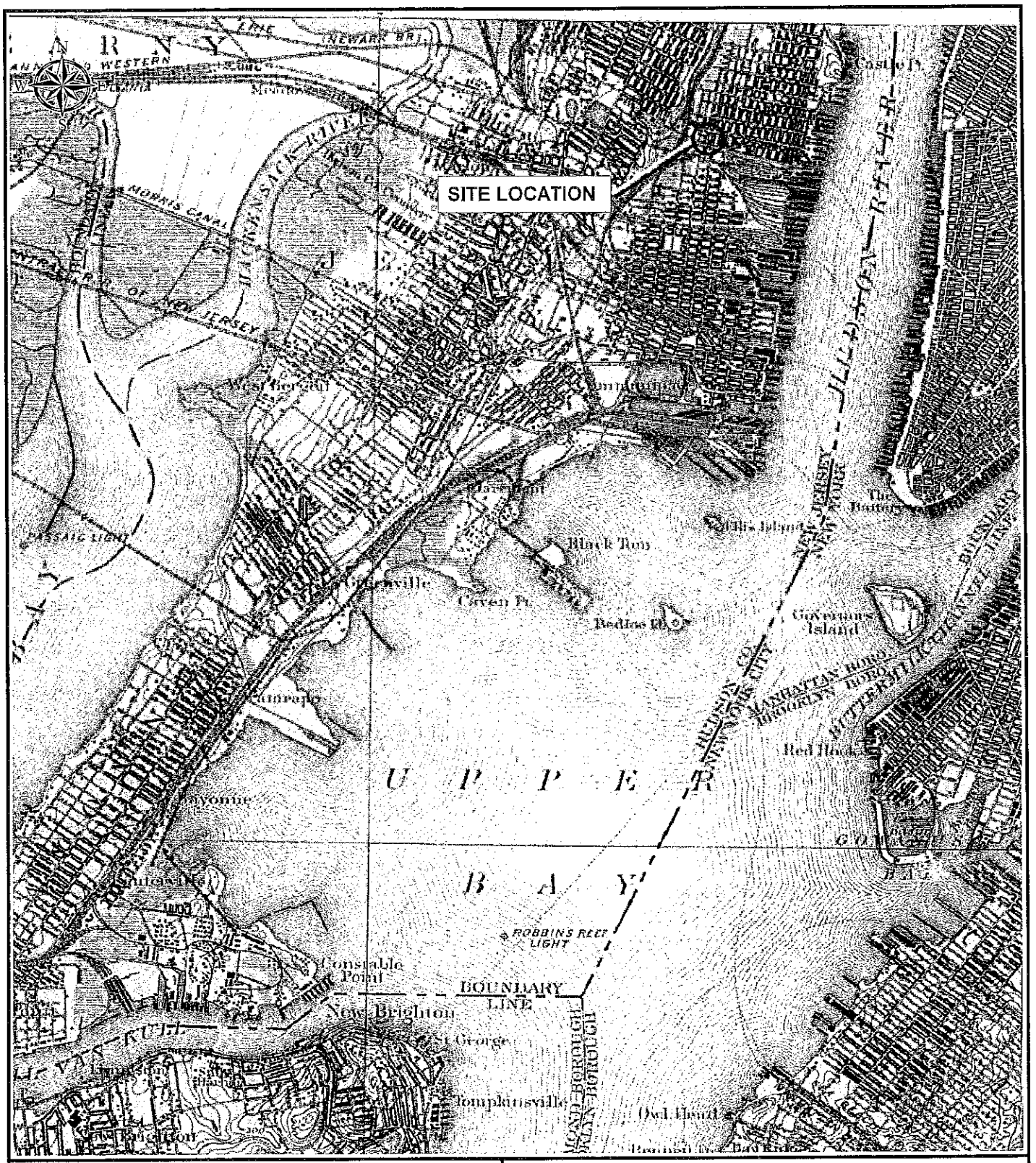
1891 UNITED STATES GEOLOGICAL SURVEY (USGS)
STATEN ISLAND QUADRANGLE TOPOGRAPHIC MAP

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	1891 TOPO



SOURCE:
ENVIRONMENTAL DATA RESOURCES, INC. (EDR)

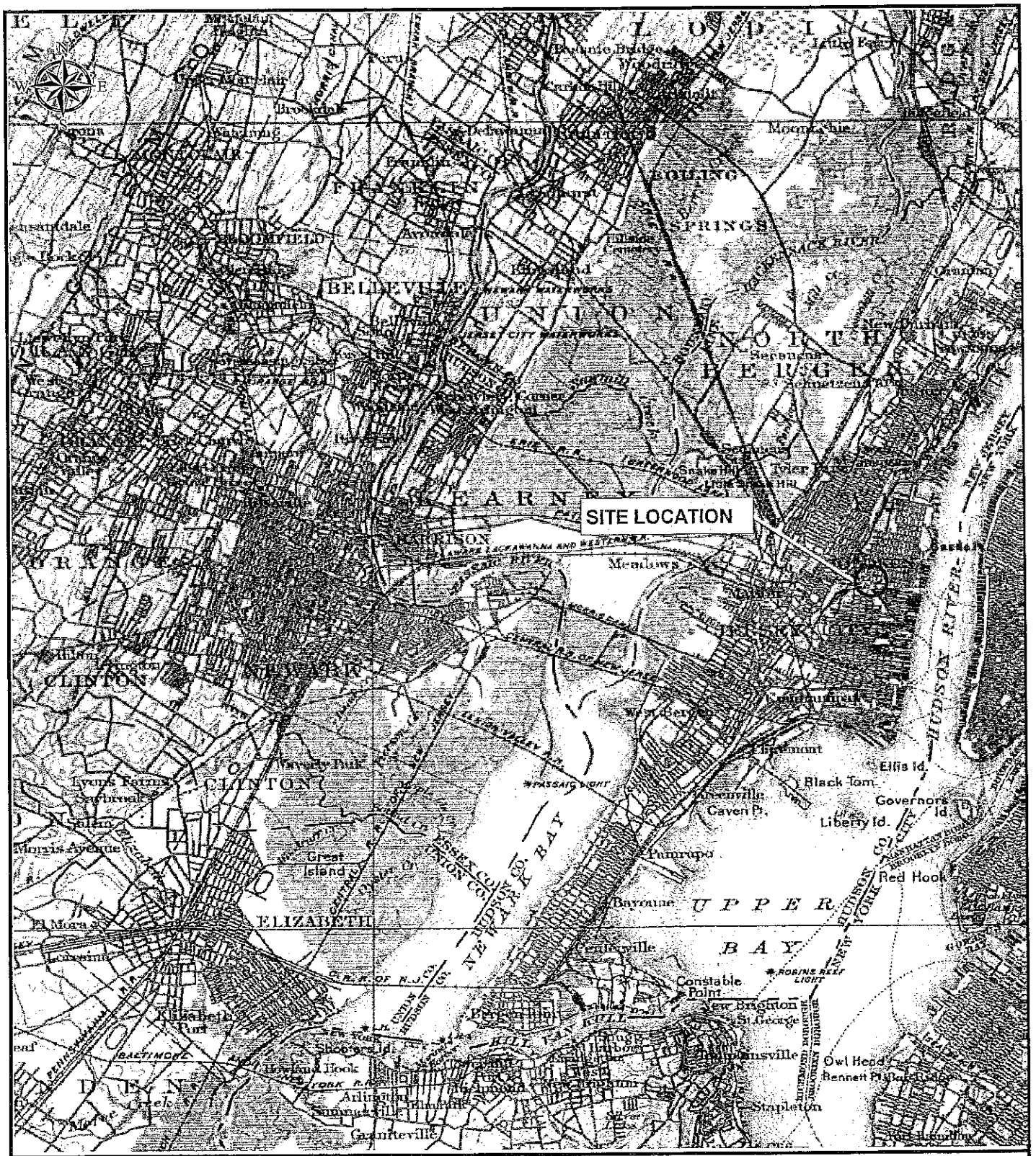
1900 UNITED STATES GEOLOGICAL SURVEY (USGS)
STATEN ISLAND QUADRANGLE TOPOGRAPHIC MAP

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	1900 TOPO



SOURCE:

ENVIRONMENTAL DATA RESOURCES, INC. (EDR)

1900 UNITED STATES GEOLOGICAL SURVEY (USGS)
PASSAIC QUADRANGLE TOPOGRAPHIC MAP

PRELIMINARY ASSESSMENT REPORT

BLOCK 12, LOTS 1-7, 9, 11-18

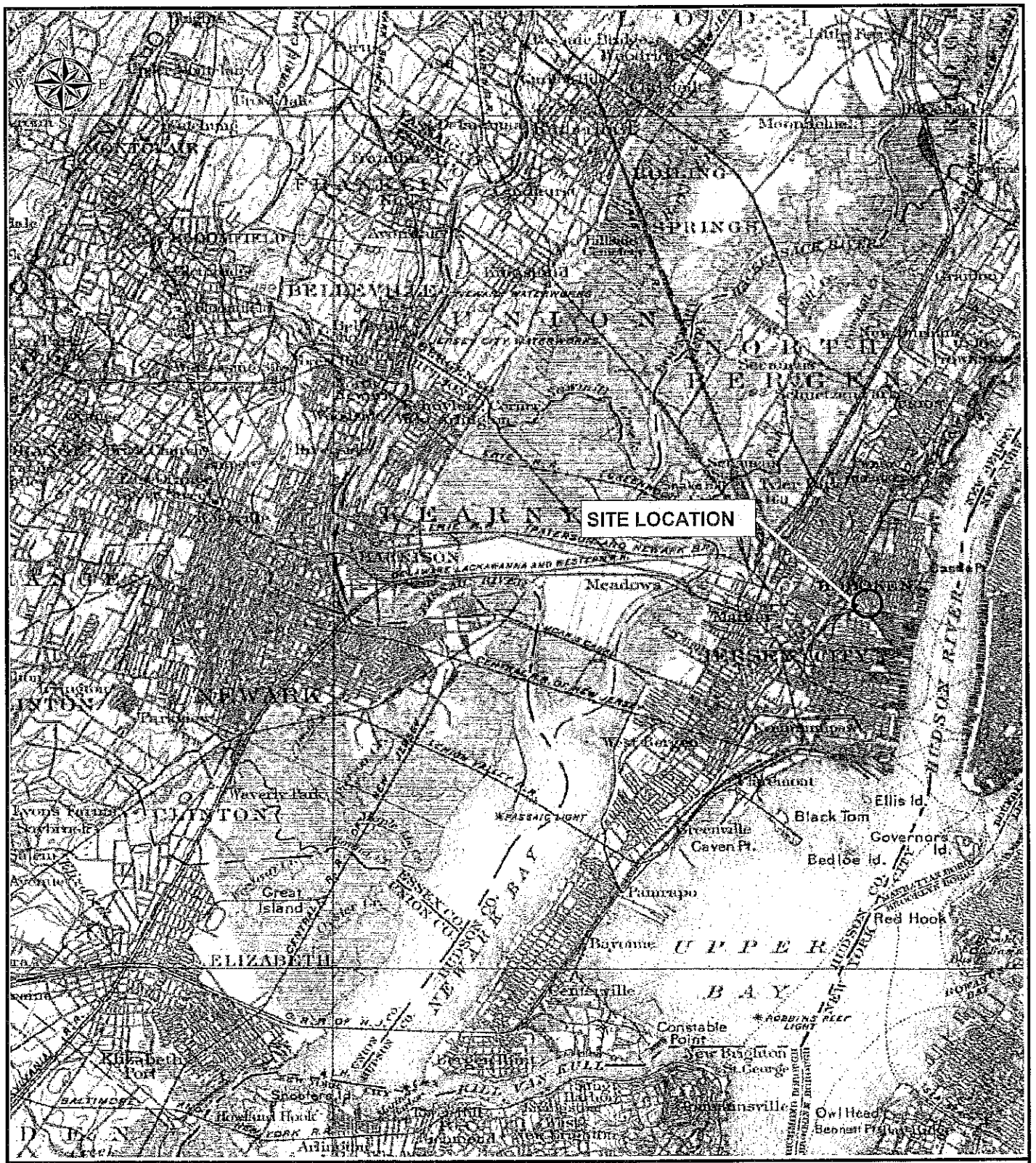
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING

330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	1900 TOPO



SOURCE:
ENVIRONMENTAL DATA RESOURCES, INC. (EDR)

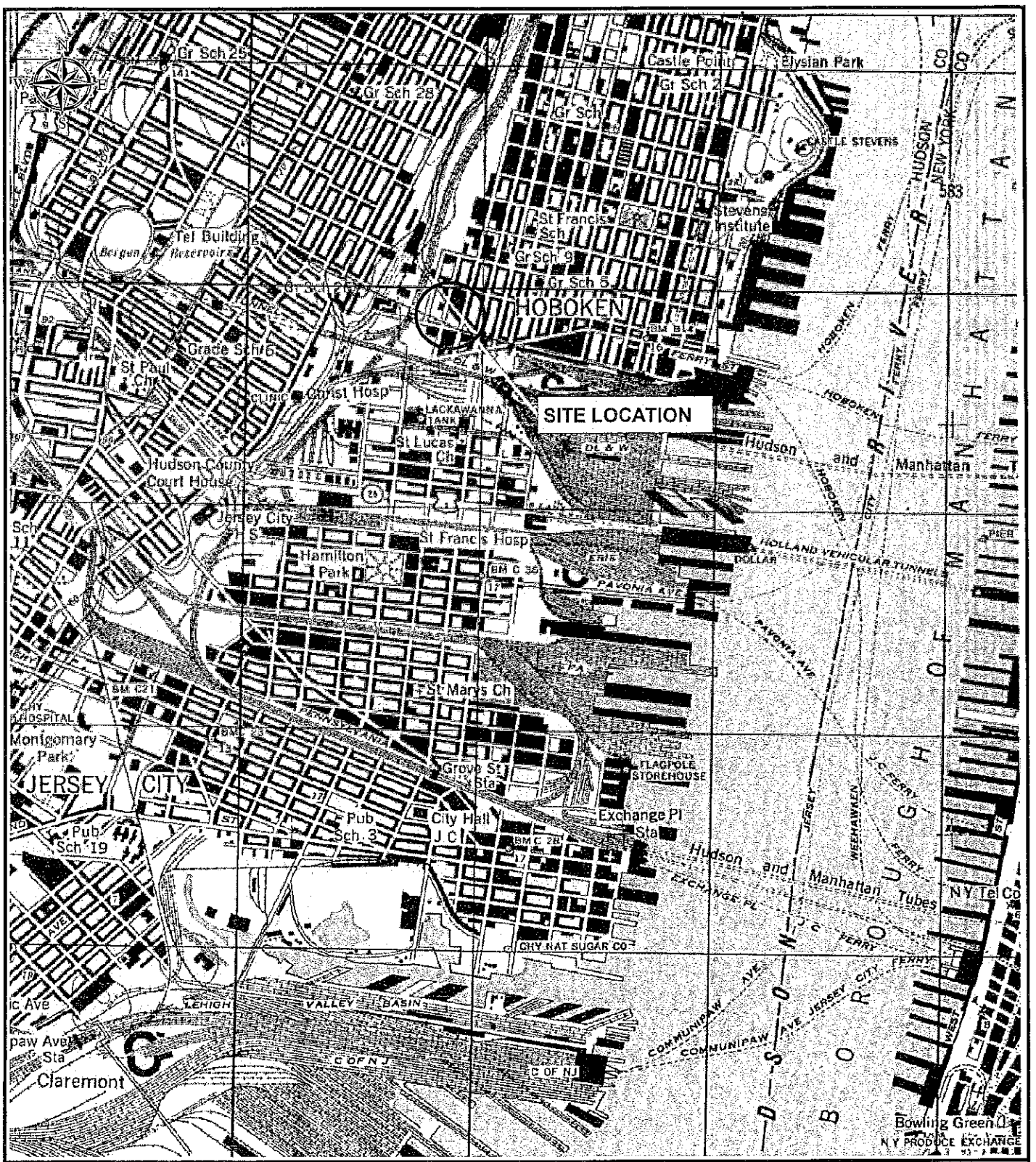
1905 UNITED STATES GEOLOGICAL SURVEY (USGS)
PASSAIC QUADRANGLE TOPOGRAPHIC MAP

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	1905 TOPO



SOURCE:

ENVIRONMENTAL DATA RESOURCES, INC. (EDR)

1947 UNITED STATES GEOLOGICAL SURVEY (USGS)
JERSEY CITY QUADRANGLE TOPOGRAPHIC MAP

PRELIMINARY ASSESSMENT REPORT

BLOCK 12, LOTS 1-7, 9, 11-18

CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING

330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	1947 TOPO

SOURCE:

ENVIRONMENTAL DATA RESOURCES, INC. (EDR)

1955 UNITED STATES GEOLOGICAL SURVEY (USGS)
JERSEY CITY QUADRANGLE TOPOGRAPHIC MAP

PRELIMINARY ASSESSMENT REPORT

BLOCK 12, LOTS 1-7, 9, 11-18

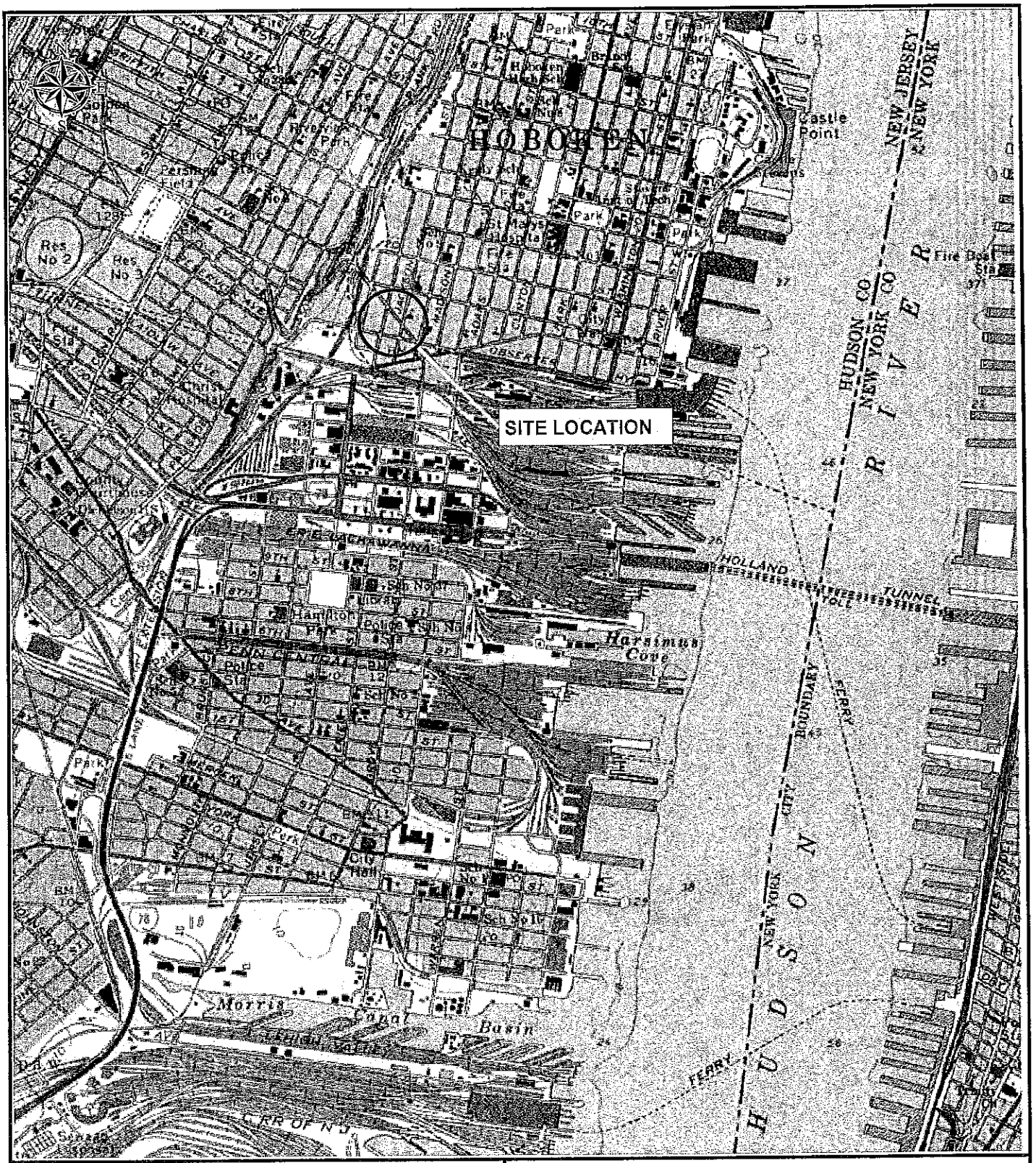
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING

330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	1955 TOPO



SOURCE:
ENVIRONMENTAL DATA RESOURCES, INC. (EDR)

1967 UNITED STATES GEOLOGICAL SURVEY (USGS)
JERSEY CITY QUADRANGLE TOPOGRAPHIC MAP

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	1967 TOPO

SOURCE:

ENVIRONMENTAL DATA RESOURCES, INC. (EDR)

1981 UNITED STATES GEOLOGICAL SURVEY (USGS)
JERSEY CITY QUADRANGLE TOPOGRAPHIC MAP

PRELIMINARY ASSESSMENT REPORT
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: TJO	DATE: SEPT. 2011	1981 TOPO

APPENDIX I

Industrial Directory Search Report

INDUSTRIAL DIRECTORY REVIEW

Report Date: October 12, 2011
Client File Number: HO-458
Site Address(es): 57-69 Harrison Street
51-59 Paterson Avenue
58-64 Jackson Street
Hoboken, NJ

A search was conducted for the subject area noted above to identify any industrial tenant information maintained at national repositories, local city/town libraries and/or various public sources.

The following information is the result of this search:

Source	Subject Address
1954-1955 Macrae's Industrial Directory	No Listing
1960 Macrae's Industrial Directory	No Listing
1965 Macrae's Industrial Directory	No Listing
1970 Macrae's Industrial Directory	No Listing
1975 Macrae's Industrial Directory	No Listing
1980 Macrae's Industrial Directory	No Listing
1984 Macrae's Industrial Directory	No Listing
1990-1991 New Jersey Directory of Manufacturers	No Listing
1995 New Jersey Directory of Manufacturers	No Listing
2001 New Jersey Directory of Manufacturers	No Listing
2007 New Jersey Directory of Manufacturers	No Listing

Although great care has been taken in compiling and verifying the information contained in this report to insure that it is accurate, I disclaim any and all liability for any errors, omissions, or inaccuracies in such infomation and data.

954-1955

FERGUSON PROPELLER & RECONDITIONING CO 1122 Clinton St
Foundry M-40 F-2

FESSENDEN COS INC Observer Hwy & W S R R P O Box 806—HO 3-0057
New light & slack wooden barrels, kegs, pails & tubs for food products, chemicals, adhesives

FRANKLIN BAKER div GENERAL FOODS CORP 15th & Bloomfield Sts—HO 3-8000
Coconut, blended syrups, laundry aids, Jell-O & Jell-O puddings M-415 F-304

FREDDY COAT & SUITS CO 502 Grand St
Ladies coats & suits M-9 F-12

GALLER BEVERAGES INC 127 Grand St—HO 3 1166
Mineral waters M-8 F-2

GARIBALDI, JOSEPH J 77 River St—Mitchell 2-7893
Real estate

GAYNOR, J 215 10th St—HO 3-5406
Blacksmiths

GLEEN PRODUCTS CO 110 Observer Hwy—HO 3 1623
Medicines, cosmetics, private formula M-2 F-20

GRADY, W A Observer Hwy & WSRR P O Box 707
Barrels & drums

GRAND COAT CO INC 1015 Clinton St
Ladies coats M-14 F-33

GRANDY, A SONS 712 Madison St—HO 3 1404
Automobile bodies & repair work M-7

GRAVURE CYLINDER CORP 1422 Grand St—HO 3-1393
Copper engravings M-18 F-26

GRAY PANTOGRAPH ENGRAVING CO INC 200 Washington St—HO 2-0576
Machine precision engraving of panels, instruments, name & instruction plates on all metals & plastics M-6 F-1

H C COAT CO 115 Court St
Coats M-12 F-17

H & P GARMENT CO 110 Observer Hwy
M-3 F-23

HAAG BROS INC 497 Observer Hwy—HO 3-4480
Meat packers M-19 F-6

HALL, STEPHEN & CO INC 7th & Adams Sts—HO 3-3250
Electric machinery switchboards M-12 F-3

HARMSEN, WM J R 1032 Willow Av—HO 3-3437
Confectioners

HEILBRUNN, H CO INC 501 Newark St—HO 3-2464
Abattoir

HELLINGHAUSEN, F R 70 Hudson St—HO 3-3432
Multigraphing M-5 F-4

HENZE INSTRUMENT CO INC 201 Harrison St—HO 2-6500
Repairs to gauges, thermometers, industrial instruments, safety valves, reducing & control valves, repairs to gate & globe valves M-23 F-3

HIMROD MFG CO 1422 Grand St—HO 3-7140
Asthma powder, medicinal cigarettes M-6 F-6

HINDE & DAUCH PAPER CO INC 550 9th St—HO 3-4400
Corrugated boxes & corrugated packing materials M-203 F-74

HIT COAT CO 428 Madison St
Ladies coats M-8 F-21

HOBOKEN BOOK BINDING CO 508 Park Av—HO 3 0101
Book binding M-4 F-4

HOBOKEN PATTERN & MODEL CO INC 1329 Grand St—HO 3-1474
Wood & metal pattern equipment M-9 F-2

HOBOKEN ROOFING & SHEET METAL WORKS 223 Jefferson St
Roofing, sheet metal work M-7

HOBOKEN WHITE LEAD & COLOR CO 15th & Adams Sts—HO 3-0050
Paint M-22 F-5

HOBOKEN WOOD FLOORING CORP 335 Observer Hwy—HO 3-2791
Oak, maple, beech, birch, pine, & parquet flooring, cedar closet lining, bowling alley & squash stock, unit wood block flooring, random width plank oak flooring M-8 F-1

HOBOKEN WROUGHT IRON ANDIRON CO 1328 Grand St—HO 3 0400
Fireplace fixtures M-15

HUDSON BOX & LUMBER CO 1326 Grand St
Wooden boxes & shooks M-14 F-2

HUDSON ENGRG CO INC 1116 Clinton St
Gen machinists & engrg M-23

HUDSON QUILTING CO INC 608 Adams St
Quilting M-3 F-6

HUDSON WIPERS CO 719 Jefferson St—HO 3-3371
Wiping rags M-4 F-4

HUEHNERBEIN, W E 508 Park Av—HO 3 0101
Bookbinders

HYGRADE FOOD PROD CORP 700 1st St
Provisions M-34

INSTRUMENT SERVICE CO 310 12th St—HO [illegible]
Thermometers, gages, all makes & types of instruments repaired M-16

INTERSTATE SHADE CLOTH CO 812 Jefferson St—[illegible]
Window shades cloth & rollers M-25 F-90

J C METAL CO 61 Paterson Av—HO 2-8400
Scrap metals & iron

J & F CUTTERS 408 Adams St—HO 2-1895
Embroideries F-5

JACOB BROS 1033 Jefferson St
Childrens apparel M-20 F-90

JANSSEN DAIRY CORP 109 Grand St—HO 3-2114
Dairy products M-281 F-16

JAY'S MFG CO 1015 Grand St—HO 3-7633
Ladies dresses M-7 F-25

K & W GLASS WORKS INC Clinton St—HO 4-9202
Glass Christmas tree ornaments M-10 F-20

KAY NOVELTY CO 309 11th St—HO 3-5177
Toys & novelties

KEUFFEL & ESSER CO 300 Adams St—HO 3-1100
Drafting, reproduction & surveying equipment & supplies, slide rules, measuring tapes M-1,000 F-50

KIRCHGESSNER, W R 421 Washington St—HO 3-1[illegible]
Flags

LEART INC 830 Monroe St—HO 2-2020
Glass novelties M-50 F-100

LEHLE, FRED E PROVISION CO INC 64 Hall St
Curing & boiling hams M-9

LEHMAN, IRA & CO INC 401 Jefferson St—HO 3-[illegible]
Copper & copper base alloys, tin & lead alloys M-[illegible]

LEVINE BROTHERS 1422 Grand St—HO 2-6113
Work, shop, engineer, railroad mechanics' [illegible] caps M-3

LIBERTY CASTLE LAUNDRIES INC 116 Madison St—HO 3-[illegible]
Laundry & dry cleaning M-44 F-30

LIGHTFOOT SCHULTZ CO 1412 Park Av—HO 3-2761
Soap & cosmetics M-91 F-111

LINCOLN BOX & LUMBER MFG CO INC 1501 [illegible] 3618
Wooden boxes, shooks, crates

LIPTON, THOMAS J INC 15th & Hudson Sts—HO 3-[illegible]
Tea & tea bags

LO RICA INC 1023 Clinton St—HO 3-5744
Rubber prophylactics M-3 F-8

LOYAL HAT MFG CORP 1018 Washington St
Mens felt hats M-6 F-3

LYSCO MFG CO INC 1401 Clinton St—HO 3-3530
Communications & electronic equipment M-[illegible] F-10

McDONOUGH & LYDON MFG CO 1401 Clinton St—HO 3-[illegible]
Table pads M-9 F-15

M & C COAT CO INC 251 1st St
Ladies coats & suits M-47 F-40

M & M NOVELTY WORKS 900 2nd St—HO 4-9020
Dolls, cloths & dresses M-2 F-12

MAJESTIC WIRE PROD CO 807 Clinton St
Wire frames M-11

MALATESTA & SONS 517 Adams St—HO 3-2435
Iron works & machine works M-7 F-2

MARLA SPORTSWEAR CO 1031 Clinton St
Sportswear M-6 F-17

MARVEL FLUORESCENT MFG CO 1401 Clinton St
Assembling of light fixtures M-7 F-5

MARY ANN GARMENT CO 92 Madison St—HO 4-3[illegible]
Ladies suits & coats M-6 F-23

MAXINE COAT CO 309 11th St
Ladies coats M-25 F-45

MAXWELL HOUSE div of GENERAL FOODS CORP 1125 [illegible] HO 3-2991
Coffees

MAYBURN KNITTING MILLS CORP Clinton at 3rd St—HO [illegible]
Boys, mens & ladies sweaters M-41 F-71

METAL CONTAINER CORP 1012 Grand St—HO 3-2041
Collapsible metal tubes M-18 F-45

METAL SPECIALTY CORP 559 Observer Hwy
Metal stampings M-9

METRO MFG CO 1021 Grand St—HO 3-6615
Tools, dies & metal stampings M-4 F-5

1990-1991

SIC: 2542 Estab: 1959
Sales: $10MM Emp: 200
Sq.Ft: 160000
* Pr/Tr-H. Teitelbaum
VP-Joseph Makara
* Directors

LEON-FERENBACH COMPANY
95 River Street Hoboken, NJ 07030
Phone: 201-963-3800
Products: Throwsters, Dyers and Texturizers of Nylon, Acetate and Polyester
SIC: 2281 2282 Estab: 1909
Sales: $17MM Emp: 350
Pr-Richard S. Ferenbach
Tr-Charles W Milhorn
Bank: Savran Bank, Johnson City, TN
Accts: Hertz, Herson & Company, New York City
Law Firm: Cole & Deitz, New York City

M C M COAT CO., INC
515 Fourth Street Hoboken, NJ 07030
Phone: 201-796-2123
Products: Women's Suits and Coats
SIC: 2337
Emp: 70
Sq.Ft: 5,000
Pr-Dominick Manente

MALI-FRANCE INC
1500 Hudson Street Hoboken, NJ 07030
Phone: 201-798-7373
Products: Plastic Buckles
SIC: 3089 3965
Emp: 20
Pr-David Mizrahi

MAR-OIL HYDRAULICS INC
113 Monroe Street Hoboken, NJ 07030
Phone: 201-656-8780
Products: Starters, Hydraulic Marine Engine Starters
SIC: 3694 Estab: 1964
Emp: 6
Sq.Ft: 5,000
Pr-W. C. Schafer

MAXWELL HOUSE DIVISION
(Div Philip Morris Companies Inc, New York City)
1125 Hudson Street Hoboken, NJ 07030
Phone: 201-420-3300
Products: Coffee
SIC: 2095 Estab: 1939
Emp: 600
Sq.Ft: 800000
PltMgr-F. J. Meegan
Cont-Vincent Lambrola
PA-Thomas Mahon
PersMgr-Daniel Zanetich
PltEng-G. Bartus

MIDWAY INK CORP
659 First Street Hoboken, NJ 07030
Phone: 201-659-0401
Products: Letterpress and Lithographic Inks
SIC: 2893 Estab: 1956
Sales: $500M-1MM Emp: 15
Sq.Ft: 19,000 Acres: 1
Pr-Sanford Jay Rieff
VP-Jonathan W. Rieff

MISS AMERICA ORIGINALS
330 Jefferson Avenue Hoboken, NJ 07030
Phone: 201-656-8300
Products: Dance Costumes
SIC: 2389
Emp: 8
Owner-Jack Palazzo

MOLA IRON WORK
61 Paterson Avenue Hoboken, NJ 07030
Phone: 201-963-3485
Products: Architectural and Ornamental Iron Work
SIC: 3446
Sales: $500M-1MM Emp: 10

MONA-LISA COAT COMPANY
332 Jefferson Street Hoboken, NJ 07030
Phone: 201-792-2103
Products: Ladies' Coats
SIC: 2337
Emp: 60
Pr-Philip Lenge

MORSE METAL PRODUCTS CO., INC
615 Adams Street Hoboken, NJ 07030
Phone: 201-656-0122
Products: Materials Handling Equipment
SIC: 3535 Estab: 1948
Sales: $500M-1MM Emp: 9
Pr-Carl H. Geisler

NEUMANN, R., & COMPANY
300 Observer Highway Hoboken, NJ 07030
Phone: 201-659-3400
Products: Leather Products
SIC: 3199
Emp: 50
Pr/Tr-Richard Bernheim
VP/Sec-William P. Bernheim
Bank: National Westminster Bank NJ, Hoboken
Accts: Fox & Company, New York City

NEW ERA LABEL CORP
108 Clinton Street Hoboken, NJ 07030
Phone: 201-659-9121
Products: Pressure Sensitive and Gummed Labels
SIC: 2672 Estab: 1962
Sales: $500M-1MM Emp: 10
Sq.Ft: 10,000
Pr-Eli Chatson
Tr-Louis Freedlander
Bank: Hudson United Bank, Hoboken

NEW JERSEY CASKET CO., INC
1330 Clinton Street Hoboken, NJ 07030
Phone: 201-792-3200
Products: Caskets
SIC: 3995
Emp: 26
Pr-M. Iannaconi

PANSINI, D., COMPANY
417 Monroe Street Hoboken, NJ 07030
Phone: 201-656-5903
Products: Millwork
SIC: 2431
Sales: $500M-1MM Emp: 10

POGGI PRESS, THE
15th and Adams Streets Hoboken, NJ 07030
Phone: 201-659-0837
Products: Commercial Printing
SIC: 2759 Estab: 1928
Sales: $2-5MM Emp: 35
Sq.Ft: 22,000 Acres: 2
* CEO/Pr-Charles F. X. Poggi
* ExVP-Charles J. Poggi
VP-Mkt-R. Neuendorff
VP-Purch-R. Macca
* Directors
Bank: Hudson United Bank, Union City, NJ

PULSAR MICROWAVE CORP
1500 Hudson Street Hoboken, NJ 07030
Phone: 201-653-3050
Products: Microwave Components for Radio and Radar
SIC: 3679
Emp: 12
Pr-David Berry

QUALITY TOOL & DIE CO., INC
730 Grand Street Hoboken, NJ 07030
Phone: 201-792-2077
Products: Special Dies and Tools, Die Sets, Jigs and Fixtures, Jig Grinding
SIC: 3544 3599
Sales: $2-5MM Emp: 50
Sq.Ft: 50,000
Pr-David P. Pascale
VP-Sherrill Pascale

QUALTEX CORP
707 Monroe Street Hoboken, NJ 07030
Phone: 201-792-2288
Products: Knitting and Finishing of Broad Woven Cotton Fabrics
SIC: 2261 2259 Estab: 1978
Sales: Under $500M Emp: 10
Sq.Ft: 6,000
* Ch Bd/Pr-Jerome Bollettieri
* Directors

RIVER CORRUGATED CONTAINER CORP
610 Newark Street Hoboken, NJ 07030
Phone: 201-659-2832
Products: Corrugated Containers
SIC: 2653
Sales: $500M-1MM Emp: 8
Sq.Ft: 9,000

ROBINSON PLASTICS CORP
527 Clinton Street Hoboken, NJ 07030
Phone: 201-798-0404
Products: Injection Molded Industrial Parts
SIC: 3089 Estab: 1940
Sales: $2-5MM Emp: 50
Sq.Ft: 30,000
* ChBd/Pr-Irvin I. Rubin
VP-Mkt-Ephraim L. Rubin
VP-Mfg-Phil Levy
* Tr/Sec-Laura V. Rubin
* Directors
Bank: National Westminster Bank NJ, Jersey City
Accts: Kamlet & Company, New York City

SIGN MASTERS INC
1500 Hudson Street, 11th Floor Hoboken, NJ 07030
Phone: 201-795-9102
Products: Signs and Advertising Displays
SIC: 3993
Emp: 40
Pr-John Fernandez

SIMPLEX CEILING CORP
50 Harrison Street Hoboken, NJ 07030
Phone: 201-864-6630
Products: Acoustical Ceiling Panels of Aluminum
SIC: 3353 Estab: 1945
Sales: $2-5MM Emp: 27
Sq.Ft: 20,000
* ChBd/Pr-Russell Nassof
* Sec-Muriel L. Nassof
* Directors
Bank: Manufacturers Hanover Trust, New York City
Accts: Ferdinand, Ganek & Handler, Union, NJ
Law Firm: Venino & Venino, Union City, NJ

SIMS PUMP VALVE CO., INC
1314 Park Avenue Hoboken, NJ 07030
Phone: 201-792-0600
Products: Pump Impellers, Valves and Heaters
SIC: 3561 3433 Estab: 1919
Sales: $1-2MM Emp: 24
Sq.Ft: 10,000
* Pr-R. Sims Post
* ExVP-Charles Post
* VP-Oper-John A. Kozel
* Directors; also:
Arthur L. Dickson
Bank: Hudson United Bank, Hoboken
Accts: H. N. Frankel & Company, Fort Lee, NJ
Law Firm: Dickson & Creighton, Hoboken

SKILLCRAFT TOOL & DIE CO., INC
1002 Jefferson Street Hoboken, NJ 07030
Phone: 201-659-8559
Products: Tools and Dies
SIC: 3544
Sales: $500M-1MM Emp: 10

STAHL SOAP CORP
(Plant Stahl Soap Corp, E. Rutherford, NJ)
1413 Willow Avenue Hoboken, NJ 07030
Phone: 201-653-1636
Products: Soap
SIC: 2841
Sales: $5-10MM Emp: 65
Sq.Ft: 44,000
* Pr-Kenneth L. Stahl
* ExVP/Tr/Sec-June A. Stahl
* Directors; also:
Alice S. Stahl

SUSAN SPORTSWEAR CO., INC
1015 Clinton Street Hoboken, NJ 07030
Phone: 201-656-5767
Products: Women's Sportswear
SIC: 2339 Estab: 1968
Sales: Under $500M Emp: 30
Pr-Susan Cesario
VP-Phillip Cesario
Sec-Lawrence Cesario
Bank: Hudson United Bank, Hoboken
Accts: Louis Lynaugh, Hoboken
Law Firm: Goldsmith & Cesario, Hoboken

T M P INC
605 Washington Street Hoboken, NJ 07030
Phone: 201-792-2531
Products: Ladies' Coats
SIC: 2337
Emp: 100
Pr-Dominick DeGennaro
VP-Frank DeGennaro

UNITED DECORATING CO., INC
421 Washington Street Hoboken, NJ 07030
Phone: 201-659-1922
Products: Signs and Advertising Displays
SIC: 3993
Sales: $500M-1MM Emp: 10

UNITED STATES TESTING CO., INC
(Sub SGS SA, Geneva, Switzerlnd)
1415 Park Avenue Hoboken, NJ 07030
Phone: 201-792-2400
Products: Laboratory and Scientific Instruments, Chemical Preparations
SIC: 3812 2899 Estab: 1880
Sales: $52MM Emp: 1,200
Sq.Ft: 138000 Acres: 7
* CEO/Pr-Lawrence S. Lazar
VP-Fin/Tr-Joseph Wasilewski
DirMkt-Diane Fuller
PA-Joseph McCaulley
* Directors
Bank: National Westminster Bank NJ, Hoboken
Accts: Coopers & Lybrand, New York City
Law Firm: Mandelbaum, Schweiger & Conner, New York City

UNIVERSAL FOLDING BOX CO., INC
551 13th Street Hoboken, NJ 07030
Phone: 201-659-7373
Products: Folding Paperboard Boxes, Displays and Cartons
SIC: 2657 2653 Estab: 1910
Sales: $11MM Emp: 150
Sq.Ft: 130000 Acres: 4
* ChBd/Pr/Tr-Sanford L. Batkin
* VP-Stephen J. Gannetti
VP-Sls-Irwin Greenberg
VP-Purch-Frank E. Kahn
VP/SlsMgr-Sheldon Weill
DirMfg-Richard Berkey
PltMgr-John Rizzo
* Directors
Bank: Bankers Trust Company, New York City
Accts: Sommer, Abraham & Company, New York City
Law Firm: Herrick Feinstein, New York City

VELOURIT CORP
1306 Clinton Street Hoboken, NJ 07030
Phone: 201-656-5957
Products: Textile Printing
SIC: 2261
Emp: 30
Sec-J. Lerner

VRACO USA, INC
5 Maineview Plaza Hoboken, NJ 07030
Phone: 201-656-3816
Products: Check Valves
SIC: 3491
Emp: 100
Pr-Philip Countriel

WINDSOR WAX CO., INC
611 Newark Street Hoboken, NJ 07030
Phone: 201-659-1700
Products: Cleaning, Polishing Preparations
SIC: 2842 Estab: 1923
Sales: $500M-1MM Emp: 12
Sq.Ft: 25,000
* Pr-Jacob Kahn
VP-Sls-David Kahn
* Sec-Janice Kahn
* Directors
Bank: Trust Company of New Jersey, Hoboken
Accts: Cezar, Katzman & Company, Wayne, NJ

HOPATCONG

LALLY ALUMINUM CO., INC
29 Bicknell Trail Hopatcong, NJ 07843
Phone: 201-398-2285
Products: Aluminum Castings
SIC: 3365
Sales: $500M-1MM Emp: 10

HOPE

INLAY, INC
Lake Justin Road Hope, NJ 07844
Phone: 201-459-5677
Products: Water Filtration Equipment
SIC: 3589 Estab: 1983

SIC: 3365 3369 Aluminum, magnesium, nonferrous & sand casting

(G-3775)
AYERS, ARNOLD & CO
1500 Hudson St (07030-5590)
Phone 201 795-2900
FAX: 201 795-0877
Arnold Ayers, *President*
James Ayers, *Vice Pres*
EMP: 6 EST: 1923
EST. SLS: 500-999K
Privately Owned
SIC: 2752 2791 Offset printing & typesetting

BETTER BELTS, HOBOKEN NJ
See Dan Dee Belt & Bag Co Inc

(G-3776)
BOND BEDDING CO INC
1039 Clinton St (07030-3101)
PO Box 57 (07030-0057)
Phone 201 656-7130
FAX: 201 656-7373
Bert Gilling, *Sales Mgr*
EMP: 7
EST. SLS: 500-999K
Privately Owned
SIC: 2515 Mattresses & bedsprings

(G-3777)
CANSTRUCT
720 Monroe St (07030-6315)
Phone 201 714-7770
FAX: 201 714-7770
James Polk, *Owner*
EMP: 1 EST: 1984 SQ. FT: 1,800
EST. SLS: Under $500K
Privately Owned
SIC: 3993 Mechanical displays & exhibits

(G-3778)
CHAMBORD PRINTS INC
38 Jackson St (07030-6003)
Phone 201 795-2007
FAX: 201 792-1713
Dennis Shah, *President*
EMP: 43 EST: 1945
SQ. FT: 70,000
EST. SLS: 5MM-9.9MM
Privately Owned
SIC: 2679 Wallpaper

(G-3779)
COUNTER FIT QUICK PRINTING CO
91 Park Ave (07030-3552)
Phone 201 420-7926
FAX: 201 420-7322
Allen Nelson, *Owner*
EMP: 6 EST: 1984
EST. SLS: 500-999K
Privately Owned
SIC: 2752 2759 2791 Commercial offset & lithograph printing & typesetting

(G-3780)
DALY, TIM CUSTOM SCREEN PRINT
300 Observer Hwy (07030-2412)
Phone 201 217-9186
Tim Daly, *Owner*
EMP: 1 EST: 1983 SQ. FT: 800
EST. SLS: Under $500K
Privately Owned
SIC: 2759 Custom screen printing

(G-3781)
DAN DEE BELT & BAG CO INC
129 Grand St (07030-2597)
PO Box M461 (07030-0461)
Phone 201 659-5900
FAX: 201 659-1625
Charles C Rolondi, *President*
Pat Reeves, *Office Mgr*
Robert Dougherty, *Plant Mgr*
EMP: 40 EST: 1934
SQ. FT: 20,000
EST. SLS: 1MM-4.9MM
Privately Owned
SIC: 2387 Belts

(G-3782)
DYNAMIC SCREEN PRINTERS INC
720 Monroe St (07030-6315)
Phone 201 653-3568
FAX: 201 653-3139
Barry Steel, *Owner*
EMP: 3
EST. SLS: Under $500K
Privately Owned
SIC: 2396 Fabric screen printing

(G-3783)
EMPIRE MOULDING CO INC
721 Monroe St (07030-6310)
Phone 201 659-3222
FAX: 201 659-2259
Oliver Hanson, *President*
Wayne Hanson, *Vice Pres*
EMP: 4 EST: 1925 SQ. FT: 10,000
EST. SLS: 500-999K
Privately Owned
SIC: 2431 Stock, architectural & custom moldings, woodwork & millwork

(G-3784)
ENGINEERING INFORMATION INC
1 Castle Point Ter (07030-5996)
Phone 201 216-8500
Toll Free: 800 221-1044
FAX: 201 216-8532
Martin Tanke, *President*
Eric Johnson, *Vice Pres*
Peter Katz, *V P Sales*
▼EMP: 40
EST. SLS: 5MM-9.9MM
Privately Owned
SIC: 2731 Engineering information provider through internet & printed materials

(G-3785)
FAIR MAIDEN INC
406 Jefferson St (07030-2607)
PO Box 6159 (07030-7203)
Phone 201 792-3066
FAX: 201 792-4459
Angela Delt Aquilla, *President*
Natalie Busnelli, *Controller*
EMP: 6
EST. SLS: Under $500K
Privately Owned
SIC: 2341 2342 Women's & girls' lingerie

(G-3786)
FULL HOUSE PRINTING & GRAPHICS
303 1st St (07030-2433)
Phone 201 798-7073
FAX: 201 798-5521
Rosette Weiss, *Owner*
Larry Weiss, *Owner*
EMP: 5 EST: 1989 SQ. FT: 2,200
EST. SLS: 500-999K
Privately Owned
SIC: 2752 2791 Offset printing & typesetting

(G-3787)
G & H SOHO INC
117 Grand St (07030-2509)
Phone 201 216-9400
FAX: 201 216-1778
James Harris, *President*
Gerald Burstein, *Plant Mgr*
EMP: 15 EST: 1985
EST. SLS: 1MM-4.9MM
Privately Owned
SIC: 2791 2759 2789 Laser printing, computerized typesetting, desktop publishing, saddle stitch & bookbinding

GLOBAL NEWSLINE LLC, HOBOKEN NJ Moved To Jersey City NJ

(G-3788)
HALPERN COTTONS INC
95 River St (07030-5612)
PO Box 891M (07030-0891)
Phone 201 420-1717
FAX: 201 420-4391
Richard Benson, *Owner*
EMP: 2 EST: 1963
EST. SLS: Under $500K
Privately Owned
SIC: 2261 Textile converting: bleaching & dyeing

(G-3789)
HARRISON SCOTT PUBLICATIONS
5 Marine View Plz # 301 (07030-5722)
Phone 201 659-1700
FAX: 201 659-4141
Dan Cowles, *Owner*
Andy Albert, *Publisher*
Betsy Dunne, *Prdtn Editor*
EMP: 24
EST. SLS: 1MM-4.9MM
Privately Owned
SIC: 2721 Business newsletter publishing

(G-3790)
HENKEL CORPORATION
Chemicals Group
1301 Jefferson St (07030-2295)
Phone 201 659-1200
Toll Free: 800 234-4365
Lou Gayo, *Plant Mgr*
EMP: 85 EST: 1961
EST. SLS: 25MM-49.9MM
Publicly Owned
SIC: 2899 Specialty chemicals: cosmetics & pharmaceuticals
PA: Henkel Corporation
2200 Renaissance Blvd # 200
Gulph Mills, PA 19406
610 270-8100

HOBOKEN REPORTER, HOBOKEN NJ See Hudson Reporter

HUDSON CURRENT, HOBOKEN NJ See Hudson Reporter

(G-3791)
HUDSON REPORTER
1400 Washington St (07030-5558)
PO Box 3069 (07030-1601)
Phone 201 798-7800
FAX: 201 798-0018
Karen Lissner, *Editor*
Lucha Malalo, *Publisher*
EMP: 24
EST. SLS: 1MM-4.9MM
Privately Owned
SIC: 2711 Newspaper publishing

JERSEY CITY REPORTER, HOBOKEN NJ See Hudson Reporter

(G-3792)
KTAV PUBLISHING HOUSE INC
900 Jefferson St (07030-2108)
PO Box 6249 (07030-7205)
Phone 201 963-9524
FAX: 201 963-0102
Sol Scharfstein, *President*
Yaakov Elman, *Editor*
EMP: 15 EST: 1920
EST. SLS: 1MM-4.9MM
Privately Owned
SIC: 2731 Religious book publishing

LIFE & HEALTH, HOBOKEN NJ See National Underwriter Co

(G-3793)
METRO-WEB INC
1420 Willow Ave (07030-3310)
Phone 201 795-3900
FAX: 201 795-3964
William Vogel, *President*
Tristan Vogel, *Vice Pres*
Robert Irving, *Prdtn Mgr*
EMP: 45 EST: 1991
EST. SLS: 1MM-4.9MM
Privately Owned
SIC: 2759 Financial document printing

(G-3794)
MIDWAY INK CORP
659 1st St (07030-6831)
PO Box M372 (07030)
Phone 201 659-0401
FAX: 201 659-0642
Sanford Rieff, *President*
Jonathan Rieff, *Vice Pres*
Terry Catalina, *Office Mgr*
EMP: 7 EST: 1956 SQ. FT: 18,000
EST. SLS: 1MM-4.9MM
Privately Owned
SIC: 2893 Lithographic printing ink

MISS AMERICA ORIGINALS, HOBOKEN NJ Moved To Jersey City NJ

(G-3795)
MODEL SMITH INTERNATIONAL INC
66 Willow Ave (07030-7117)
Phone 201 714-9519
FAX: 201 217-0666
Karol Popec, *Owner*
Bruce Cardilli, *Shop Foreman*
EMP: 4 EST: 1990 SQ. FT: 5,600
EST. SLS: Under $500K
Privately Owned
SIC: 3599 2431 7692 Custom general machining, surface grinding, MIG, TIG welding & woodworking

(G-3796)
MOLA IRON WORKS
61 Paterson Ave (07030-6010)
Phone 201 963-3485
Tony Iatto, *Owner*
EMP: 2 EST: 1973 SQ. FT: 700
EST. SLS: Under $500K
Privately Owned
SIC: 3446 3441 Iron fabricating

(G-3797)
NATIONAL TABLE CO
117 Madison St (07030-1810)
PO Box 463 (07030-0463)
Phone 201 659-6000
FAX: 201 659-8283
Felix Monente, *Owner*
EMP: 4 EST: 1973
EST. SLS: Under $500K
Privately Owned
SIC: 2511 2519 2599 Custom plastic laminated & wood end tables

(G-3798)
NATIONAL UNDERWRITER CO
43 Newark St (07030-5504)
PO Box 770 (07030-0770)
Phone 201 963-2300
Toll Free: 800 727-4347
FAX: 201 526-1260
Sam Friedman, *Editor*
Steve Plontek, *Editor*
Tom Slattery, *Publisher*
EMP: 20 EST: 1897
EST. SLS: 1MM-4.9MM
Privately Owned
SIC: 2711 Newspaper publishing
HQ: National Underwriter Co
5081 Olympic Blvd
Erlanger, KY 41018
859 692-2100

NORTH BERGEN REPORTER, HOBOKEN NJ See Hudson Reporter

NORTH HUDSON REPORTER, HOBOKEN NJ See Hudson Reporter

OUTLAW BIKER, HOBOKEN NJ See Shapiro, Harvey Publications

(G-3799)
POGGI PRESS
15th & Adams St (07030)
PO Box 868 (07030-0868)
Phone 201 659-0837
FAX: 201 659-7834
Charles F Poggi, *President*
Charles J Poggi, *Vice Pres*
Robert Poggi, *Plant Mgr*
EMP: 40 EST: 1903
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Privately Owned
SIC: 2752 2759 2789 2791 2796 Offset & letterpress printing; computer typesetting, color separation & desktop publishing; glue, perfect, saddle stitch & spiral wire binding

PROPERTY & CASUALTY, HOBOKEN NJ See National Underwriter Co

(G-3800)
QPS DIE CUTTERS FINISHERS
900 Monroe St (07030-6429)
Phone 201 714-9494
FAX: 201 714-4884

GEOGRAPHIC

APPENDIX J

City Directory Search Report

Environmental FIRSTSEARCH

REGIONAL FOCUS • NATIONAL SERVICE

CITY DIRECTORY REVIEW

Report Date: September 21, 2011
Client Job Number: 91911
FirstSearch Index Number: 278938
Site Address(es): 51-69 Patterson Avenue
58-64 Jackson Street
57-69 Harrison Avenue
Hoboken, NJ 07030

A search was conducted for the subject area noted above to identify any Historical City Directory coverage/tenant information maintained at national repositories, local city/town libraries and/or various public sources.

The following information is the result of the search:

YEAR / SOURCE	CLOSEST LOWER ADDRESS LISTINGS	SUBJECT ADDRESS(ES)	CLOSEST UPPER ADDRESS LISTINGS
2007/Cole Directory	(See Attachments)	(See Attachments)	(See Attachments)
2004/Cole Directory	(See Attachments)	(See Attachments)	(See Attachments)
2002/City Publishing Company	(See Attachments)	(See Attachments)	(See Attachments)
1996/City Publishing Company	(See Attachments)	(See Attachments)	(See Attachments)
1991/City Publishing Company	(See Attachments)	(See Attachments)	(See Attachments)
1986/City Publishing Company	(See Attachments)	(See Attachments)	(See Attachments)
1980/City Publishing Company	(See Attachments)	(See Attachments)	(See Attachments)
1975/City Publishing Company	(See Attachments)	(See Attachments)	(See Attachments)
1972/City Publishing Company	(See Attachments)	(See Attachments)	(See Attachments)

Notes: No further coverage available

Year/Source	Address (es)	Listings
2007/Cole Directory		
	47 Harrison St Hoboken, NJ:	Saktan Handicrafts Inc
	49 Harrison St Hoboken, NJ:	Alm International
		Hoboken Leather & Shearing Wareho
		Moss Fauset Woodworking
		New England Air Conditioning Corp
		Parker Ryan Industries
		Parker, Ryan
		Searove Silkscreen Inc
		Tony Monaco Furniture Design
	50 Harrison St Hoboken, NJ:	Ahmed, Shakil
		Aia Engineers
		Ansetti & Cellino Llc
		Atlantic Coast Medical Group Llc
		Ausonia Corp The
		Bottaro International Inc
		Care Management International
		Carla Jean Reagan
		Central Food Corp
		Chatarpaul Law Offices Pc
		Citistructure Llc
		Condo Investment Group
		D K Capital
		Decision News Medical
		Dellaquila, Joseph
		Dillistone Leasing Llc
		Drm Partners Inc
		Elephant Van Line
		Englishworks Inc
		Evangelist Paul S Esq
		Financial Independence Network Llc
		Glazerman Realty
		Goyal, Ajy
		Growing Streams
		Hirschorn, Keith
		Hoboken Chamber Of Commerce
		Hoboken Chiropractic & Wellness
		I Detect Inc
		Innovative Art World Inc
		Jda Hoboken Business Center Llc
		Keith Hirschorn Pc
		Law Offices Of Klemm Associates

Year/Source	Address (es)	Listings
2007/Cole Directory		
	50 Harrison St Hoboken, NJ:	Leading Edge Technology Solutions In
		Liberty 1st Mortgage Llc
		Manfredi & Associates Inc
		Mcpheeter, M
		Montoro & Assocs Editorial Services
		Murray, James
		National Society Of Leadership
		New Town Community Development Corp
		Plasmion Corp
		Reagan, Carla
		Rubin, Danielle
		S2 Llc
		Solution Shoppe Llc
		Surgical Weight Loss Center
		The Mccloud Group Llc
		Unique Telecom Inc
		Usca Forwarding Seabell Express Inc
		Vincent M Ansetti Llc
		Warren G Curtin Realty Inc
		Wkr Llc
	51 Harrison St Hoboken, NJ:	Sell Center Llc
	64 Harrison St Hoboken, NJ:	Carpet Smart Inc
	68 Harrison St Hoboken, NJ:	Oak Construction Co
	107 Harrison St Hoboken, NJ:	Couch, Tony
		Johnson-feldman, Frances
		Lomenzo, Keith
		Oneill, Meghan
		Shaffer, Corinne
		Tobias, C
	121 Harrison St Hoboken, NJ:	Enger, Kyle
	197 Harrison St Hoboken, NJ:	Wilen, Andrew
	208 Harrison St Hoboken, NJ:	Gonzalez, Carlos
	26 Jackson St Hoboken, NJ:	Ryan, Robert
	38 Jackson St Hoboken, NJ:	American Group Of Ny Inc
		Amritaveda Inc
		Chambord Prints
		Hoboken P B A Local 2
		Home Gallery Inc
		Neotechnia
		Ornstein, J
		River Clark Photography

Year/Source	Address (es)	Listings
2007/Cole Directory		
	38 Jackson St Hoboken, NJ:	Vegetarian Vision Inc
	71 Jackson St Hoboken, NJ:	Agosta, M
		Bliablias, Nicholas
	75 Jackson St Hoboken, NJ:	Brown, Stephanie
		Catterton, Bobby
		Couto, Luis
		Donovan, Matthew
		Foster, Elizabeth
		Fournier, E
		Fournier-qezari, E
		Ganjamie, Karen
		Jeppesen, Heidi
		Kaufman, Justin
		Klausner, Jacqueline
		Malizia, Michael
		Meman, Anisa
		Microdusk
		Petrone, Gene
		Qezari, Adrian
		Reff, Jennifer
		Rohrbach, William
		Umezawa, Kris
	76 Jackson St Hoboken, NJ:	Carey, Owen
		Middlesex Paper Tube Co Inc
		Morizio, Lawrence
		Porton, Richard
		Pulcinello, Josephine
		Quimby, Sean
		Richards, Holly
		Sutter, Rich
		Tatom, Susan
	81 Jackson St Hoboken, NJ:	Cole, Justin
		Dealhoy, Kelley
		Gaito, Scott
		Giuliani, Franca
		Kabili, Albert
		Kantor, Warren
		Lang, William
		Lau, Kar
		Odriscoll, Joseph
		Ro, David

Year/Source	Address (es)	Listings
2007/Cole Directory		
	81 Jackson St Hoboken, NJ:	Singh, Akshay
		Sweeney, John
	9 Paterson Ave Hoboken, NJ:	Downtown Cafe & Fish House
	10 Paterson Ave Hoboken, NJ:	J & D Provisions Inc
	14 Paterson Ave Hoboken, NJ:	Gizmo Corp
		Harsche, Henry
		Veras Florist Inc
	50 Paterson Ave Hoboken, NJ:	Sutter, Richard
	59 Paterson Ave Hoboken, NJ:	Patel, Sharda
	60 Paterson Ave Hoboken, NJ:	Brancaccio, Nicholas
		Integrity Partners Liabili
		Visconti, Gregory
	61 Paterson Ave Hoboken, NJ:	Miw Llc
	62 Paterson Ave Hoboken, NJ:	Germer, Maurice
		Haight, Edward
		Perez, Frank
	63 Paterson Ave Hoboken, NJ:	Ratto, Antonio
	65 Paterson Ave Hoboken, NJ:	Kelly, Kimberly
		Young, Jenn
	100 Paterson Ave Hoboken, NJ:	Plaza Classic Cars Inc
	111 Paterson Ave Hoboken, NJ:	Academy
		Chambers Of New Jersey Inc
		Ferrara & Associates
		Manhattan Auto Group
		Momjian Raffi Pc
2004/Cole Directory		
	47 Harrison St Hoboken, NJ:	Glarescreens
	49 Harrison St Hoboken, NJ:	Annie Granny
		Eurusa International Inc
		Eye Catchers
		Moss Fauset Woodworking
		Parker Ryan Industries
		Ron Pinon Interiors
		Searove Silkscreen Inc
		Tony Monaco Furniture Design
	50 Harrison St Hoboken, NJ:	Dellaquila, Joseph
		Jda Development Corp
		Skion Corp
	64 Harrison St Hoboken, NJ:	Carpet Smart
	101 Harrison St Hoboken, NJ:	Occupant Unknown
		P & M Tire Co

Year/Source	Address (es)	Listings
2004/Cole Directory		
	107 Harrison St Hoboken, NJ:	Creed, Cheryl
		Lomenzo, Keith
		Mertens, Thomas
	109 Harrison St Hoboken, NJ:	Kevens Auto Repairs
	117 Harrison St Hoboken, NJ:	Occupant Unknown
	26 Jackson St Hoboken, NJ:	Ryan, Robert
	38 Jackson St Hoboken, NJ:	International Realty
		Ornstein, J
	71 Jackson St Hoboken, NJ:	Ahearn, Allison
		Bliablias, Nicholas
		Hickey, William
		Mcmanus, Dallan
		Murugiah, Rajmohan
		Wehmann, Phillip
	72 Jackson St Hoboken, NJ:	Ohara, Peter
	75 Jackson St Hoboken, NJ:	Adams, Katrina
		Bigley, Adrienne
		Brown, Stephanie
		Craig, J
		Davis, Cari
		Erbeck, Marita
		Feldman, Michelle
		Fine, Sarah
		Flanagan, Terence
		Fournier, E
		Fournier-qezari, E
		Goto Network Inc
		Grubbs, Christopher
		Jost, P
		Keegan, Maura
		Klausner, Jacqueline
		Mangold, Ann
		Meman, Anisa
		Pattanayak, Tony
		Qezari, Adrian
		Sirdervan, James
		Tiptdn, Allen
		Walker, Anna
	76 Jackson St Hoboken, NJ:	Carey, Owen
		Keane, Michael
		Mcgurn, Ronald

Year/Source	Address (es)	Listings
2004/Cole Directory		
	76 Jackson St Hoboken, NJ:	Morizio, Lawrence
		Porton, R
		Pulcinello, Josephine
		Richards, Holly
		Sutter, Rich
		Tatom, Susan
	6 Paterson Ave Hoboken, NJ:	Meehan, Anthony
	8 Paterson Ave Hoboken, NJ:	Buonavolonta, James
	10 Paterson Ave Hoboken, NJ:	J & D Provisions Inc
		Occupant Unknown
	14 Paterson Ave Hoboken, NJ:	Harsche, Henry
		Martin, David
		Veras Florist Inc
	50 Paterson Ave Hoboken, NJ:	Bowman, Susan
		Mccurn, Bryan
	59 Paterson Ave Hoboken, NJ:	Patel, Sharda
		Spychalsky, Jennifer
	60 Paterson Ave Hoboken, NJ:	Martone, Robert
		Sutherland, Ariston
		Visconti, Gregory
	61 Paterson Ave Hoboken, NJ:	Mola Iron Works Inc
		Occupant Unknown
	62 Paterson Ave Hoboken, NJ:	Laakso, Anja
	65 Paterson Ave Hoboken, NJ:	Datagarden Corp
		Wilkinson, Patrick
		Young, Jenn
	100 Paterson Ave Hoboken, NJ:	Plaza Classic Cars Inc
	111 Paterson Ave Hoboken, NJ:	Chambers Of New Jersey Inc
		Ferrara & Assocs
		Manhattan Auto Group

PARKVIEW TER 07002 Contd

BAYONNE

PARNELL PL

(PO Jersey City 07306)

JERSEY CITY

From Mc Adoo Ave no to Warren Ave, 1 dir to Rogers Ave

Tract 60 (1-24 B) $2

SO ADCO AVE

PASSAIC AVE

(PO Jersey City 07307)

JERSEY CITY

From South St no to Congress St, 1 dir of Central Ave

Tract 5 (1-18 B) $2

Tract 2 (17-48 B) $2

SOUTH ST

PATERSON AVE

(PO Hoboken 07030)

HOBOKEN

From Newark Ave ne to Jersey City Boro Line

Tract 192 (1-199 B) $4

NEWARK AVE

OBSERVER HWY

CENTRAL AVE

SUMMIT AVE

HARRISON ST

HUDSON ST

PAVONIA AVE

PATERSON ST

(PO Jersey City 07307)

JERSEY CITY

From Central Ave nw, 1 se of Congress St

Tract 2 (1-76 B) $3

Tract 6 (77-133 O) $2

Tract 2 (78-132 E) $3

CENTRAL AVE

PATERSON ST 07307 Contd

JERSEY CITY

PATERSON PLANK RD

(Hoboken)

See Paterson Plank Rd Jersey City

PATERSON PLANK RD

(PO Jersey City 07307)

JERSEY CITY

From Hoboken City Limits nw 8 ft to Union City City Limits

Tract 8 (1-277 O) $2

Tract 3 (278-550 O) $2

Tract 3 (329-552 E) $3

Tract 3 (356-472 E) $3

Tract 3 (600-806 E) $3

HOBO CITY LINE

PATH PLAZA 07306 Contd

JERSEY CITY

PATH PLAZA

(PO Jersey City 07306)

JERSEY CITY

PAULMIER PL

(PO Jersey City 07306)

JERSEY CITY

From Wayne St southwest

WAYNE ST

PAVONIA AVE

(PO Jersey City 07310)

JERSEY CITY

From North Filmy w to Imperial Div, then from Newark Ave ne & se to JF Kennedy Blvd

TUERS AVE

ERIE AVE

CONGRESS ST

JERSEY CITY AVE

MANILA AVE

PAVONIA AVE 07310 Cont

JERSEY CITY

PAVONIA AVE 07302 Contd

JERSEY CITY

GOLES ST

PAVONIA AVE 07302 Contd

JERSEY CITY

GALAXY AVE

PAVONIA AVE 07305 Contd

JERSEY CITY

PAVONIA AVE 07306 Contd

JERSEY CITY

PAVONIA AVE 07306 Contd

JERSEY CITY

PARK AVE 07030 Contd
HOBOKEN

PARK AVE 07030 Contd
HOBOKEN

PARK AVE 07030 Contd
HOBOKEN

PARK AVE 07030 Contd
HOBOKEN

PARK AVE 07030 Contd
HOBOKEN

BUSINESS LISTING ☐ CHANGE OF ADDRESS + NEW LISTING

PARK AVE 07030 Contd
HOBOKEN

PARK AVE 07030 Contd
HOBOKEN
1820 APARTMENTS Contd

PARK RD 07002 Contd
BAYONNE
269 APARTMENTS Contd

PARK ST
(PO Jersey City 07304)
JERSEY CITY

PARK RD
(PO Bayonne 07002)
BAYONNE

PARKSIDE LN
(PO Bayonne 07002)
BAYONNE

PARKSIDE LN 07002 Contd
BAYONNE

PARKVIEW TER
(PO Bayonne 07002)
BAYONNE

PARNELL PL
(PO Jersey City 07305)
JERSEY CITY

PASSAIC AVE
(PO Jersey City 07306)
JERSEY CITY

PATERSON AVE
(PO Hoboken 07030)
HOBOKEN

PATERSON ST
(PO Jersey City 07307)
JERSEY CITY

BUSINESS LISTING ☐ CHANGE OF ADDRESS + NEW LISTING

PARK AVE Contd
HOBOKEN

PARK ST Contd
JERSEY CITY

PARKVIEW TER Contd
BAYONNE

PARMLY COURT APARTMENTS
See 345 Falconer Ave (Jersey City)

PARNELL PL
(PO Jersey City 07306)
JERSEY CITY
From Mc Adoo Ave no to Warner Ave. 1 sw of Phelps Ave

HIGHSOO AVE

PASSAIC AVE
(PO Jersey City 07307)
JERSEY CITY
From Spalding St no to Congress St. 1 nw of Central Ave

SOUTH ST

PATERSON AVE
(PO Hoboken 07030)
HOBOKEN
From Newark Ave no to Jersey City Boro Line

NEWARK AVE
CHESTER WAY
JACKSON ST
SUMMIT AVE
HARRISON ST

PATERSON ST
(PO Jersey City 07302)
JERSEY CITY
From Central Ave line, 1 sw of Congress St.

CENTRAL AVE
PENCE AVE

PATERSON ST Contd
JERSEY CITY

PATERSON ST
JERSEY CITY

PATERSON PLAZA
(Hoboken)
See Paterson Plank Rd

PATERSON PLANK RD
(PO Jersey City 07307)
JERSEY CITY
From Hudson Co Park Ry Co (Paterson Plank Rd)

PATH PLAZA
JERSEY CITY

PATH PLAZA Contd
JERSEY CITY

PAULMIER PL
(PO Jersey City 07302)
JERSEY CITY

PAVONIA AVE
(PO Jersey City 07310)
JERSEY CITY
From North River to Hudson Co. Park Ry Co. Newark Ave line & W to U.P. Kennedy Blvd

PAVONIA AVE Contd
JERSEY CITY

PAVONIA AVE Contd
JERSEY CITY

PAVONIA AVE Contd
JERSEY CITY

PAVONIA AVE Contd
JERSEY CITY

HUDSON COUNTY SOUTH - APRIL 1991

PARMLY COURT APARTMENTS

See 343 Fairmount Ave (Jersey City)

PARNELL PL

(PO Jersey City 07306)

JERSEY CITY

From Mc Adoo Ave nw to Warner Ave, 1 nw of Rutgers Ave

[illegible]

0-BUS 14-RES 1-NEW

PASSAIC AVE

(PO Jersey City 07307)

JERSEY CITY

From Dixon St ne to Congress St, 1 nw of Central Ave

SOUTH ST

[illegible]

0-BUS 11-RES 0-NEW

PATERSON AVE

(PO Hoboken 07030)

HOBOKEN

From 500 blk Newark Ave nw to Jersey City Boro Line

NEWARK AVE

[illegible]

JACKSON ST

[illegible]

HARRISON ST

[illegible]

9-BUS 11-RES 1-NEW

PATERSON ST

(PO Jersey City 07307)

JERSEY CITY

From Saint Ave ne, 1 se of Garfield Ave

CENTRAL AVE

[illegible]

PATERSON ST Contd

JERSEY CITY

[illegible]

PASSAIC AVE

[illegible]

SUMMIT AVE

[illegible]

PIERCE AVE

[illegible]

PATERSON ST Contd

JERSEY CITY

[illegible]

7-BUS 14-RES 8-NEW

PATERSON PLANK RD

(PO Jersey City 07307)

JERSEY CITY

From Hoboken City Limits nw & n to Union City City Limits

UNION CITY LINE

HOBO CITY LINE

[illegible]

CONGRESS ST

[illegible]

CENTRAL AVE

[illegible]

16-BUS 16-RES 5-NEW

PATH PLAZA

(PO Jersey City 07306)

JERSEY CITY

[illegible]

PATH PLAZA Contd

JERSEY CITY

[illegible]

27-BUS 3-RES 1-NEW

PAULMIER PL

(PO Jersey City 07302)

JERSEY CITY

HENDERSON ST

[illegible]

0-BUS 23-RES 3-NEW

PAVONIA AVE

(PO Jersey City 07302)

JERSEY CITY

From North Street nw to beyond Div. then from Newark Ave nw & w to J F Kennedy Blvd

TIERY AVE

[illegible]

ERIE RR

[illegible]

KOLSO ST

PROVOST ST

[illegible]

HENDERSON ST

GROVE ST

[illegible]

PAVONIA AVE Contd

JERSEY CITY

[illegible]

MONMOUTH ST

[illegible]

PAVONIA AVE Contd

JERSEY CITY

[illegible]

BRUNSWICK ST

[illegible]

PAVONIA AVE Contd

JERSEY CITY

[illegible]

PAVONIA AVE Contd

JERSEY CITY

[illegible]

CHESTNUT AVE

[illegible]

BALDWIN AVE

[illegible]

CENTRAL AVE

[illegible]

SUMMIT AVE

[illegible]

PAVONIA AVE Contd

JERSEY CITY

605 Giusa A .... +798-3263 85
605 Gillis T .... +436-6241 85
605 Matevosian R .... +659-2516 86
605 Nelson M E 963-8849 66
605 Occupant .... NA 03
605 Occupant .... NA 03
605 Occupant .... NA 00
605 Occupant .... NA 85
605 Occupant .... NA 71
605 Quinn T J 653-1432 69
605 Radler L .... +659-9130 86
605 Robinson M M 653-1386 05
605 Schmidt J R
Christine 653-7154 06
605 Sullivan A M 963-1156 06
605 Tsordis Jas R 798-2595 00
605 Vogel J 795-0625 81
605 Warner Frank 659-3616 86
605 White T J 659-1080 83
608 Plant E Curtis 653-7375 00
612 Occupant .... NA 14
613 Rosenhight Arthur 653-9689 09
613 #Ross Grand House 653-9689 09
615 #Kinney Chartering
Corporation .... ☐795-3911 86
615 #Kinney Marine
Enterprises .... ☐795-3911 86
615 #Graham Marine
Assoc Inc .... +656-2990 86
615 #Halbeth Henry C
Marine Surveyor 792-0060 84
615 #Tobs Painting
Contractors Inc .... +792-9091 85
615 #United Marine
Surveyors Inc .... +792-9094 86
617 #De Lear Daniel F 792-0101 85
617 #De Lear Vera Ann
lawyer 792-0101 85
617 #Dobbs-De Lear
Myrtle K lwyr 792-0101 85
617 #Dunn John P lwyr 333-1303 80

ACADEMY PLAZA

620 Ahmed Shawky 653-1125 80
620 Brana H Mrs 795-1648 00
620 Cerenny D L 963-2524 79
620 Cannoli Philip J 653-2176 00
620 Casmetti J 792-1965 76
620 De Faustin G Mrs 798-7764 81
620 Jacob M 659-1461 81
620 Kreiter E 798-1114 84
620 Mann M Mrs 659-8988 70
620 Mary W 653-5166 06
620 McLaughlin Thos J 792-4647 00
620 McVey A M 657-8540 00
620 Occupant .... NA 84
620 Occupant .... NA 78
620 Occupant .... NA 02
620 Occupant .... NA 00
620 Occupant .... NA 79
620 Occupant .... NA 80
620 Occupant .... NA 30
620 Occupant .... NA 00
620 Occupant .... NA 78
620 Occupant .... NA 75
620 Occupant .... NA 06
620 Occupant .... NA 79
620 Occupant .... NA 80
620 Paterson Edw H 792-2617 86
620 Paulus John W Rev 795-0473 85
620 Ramot Richard 653-4318 82
620 Regan Arthur J J 657-2840 84
620 Rick M 792-9361 81
620 Rosenlight Arthur 798-1418 80
620 Sayed Mohly 653-5008 83
620 Uzarevich E J 653-1471 85
620 Winegard M 963-5781 85
620 Ziemkii P Mrs 798-2584 08
621 Occupant .... NA 80
621 Occupant .... NA 80
625 #Mc Laughlin Funeral
Home-Journal
Square 798-8700 00

J F KENNEDY BLVD

801 #Square Plus Oper
Corporation 333-7854 80
801 #Square Ramp Parking 333-4071 80
813 Ebionubuen Fyeck 433-7503 82
813 Occupant .... NA 29
814 Occupant .... NA 80
815 Nguyen Thuy 433-4042 85
815 Occupant .... NA 86
815 Occupant .... NA 86
816 Abel Walter 434-2160 85
816 Costello Roger 434-2140 83
816 Van Dyke Bill .... +451-3517 86
817 Khalil Fady 435-1374 00
817 Khalil M 451-1176 83
818 Occupant .... NA 00
818 Woerner C R 435-7809 00
819 Foley A 435-1064 00
819 Foley T F .... +432-6771 86
821 Mitchievicz A Mrs 333-5575 00
821 Rajesky F 333-5576 00
821 Rajesky S 451-3771 90
821 Shaw Hannah .... +451-4133 86
821 O'Donnell Annie L 435-6390 00
822 Tozzi Joseph F 434-7451 80
823 Occupant .... NA 75
824 Occupant .... NA 75
825 McCaig J 435-4239 83
825 Occupant .... NA 78
826 Kapsouropoulos S 332-4357 00
826 Occupant .... NA 40
827 Occupant .... NA 00
828 Occupant .... NA 60
829 Occupant .... NA 60
830 Occupant .... NA 86
830 Occupant .... NA 40
830 Occupant .... NA 90
831 Occupant .... NA 79
831 Occupant .... NA 80
832 Occupant .... NA 86
832 Occupant .... NA 36

PAVONIA AVE Contd

JERSEY CITY

832 Occupant .... NA 80
832 Ward Phillip 434-1623 85
833 Marasco D 435-3430 00
833 Occupant .... NA 86
834 Agrawal Arak K 435-5875 85
834 Rosner R 333-9005 00
835 Occupant .... NA 83
836 Marks B .... +435-0710 86
836 Occupant .... NA 00
839 Occupant .... NA 80
840 Schram R 333-1445 85
840 Saunders J 432-0931 84

GARRISON AVE

855 Rosner P Mrs 795-2138 90
855 Lessick B .... +798-1067 86
857 Occupant .... NA 80
857 Occupant .... NA 80
859 Occupant .... NA 86
859A Occupant .... NA 79
859B Oppe Walter M 795-3525 80
860 Occupant .... NA 86
860 Occupant .... NA 75
862 Occupant .... NA 80
862 Occupant .... NA 80
862 Weller J P 434-4541 83
863 Chi Young Fone 656-6955 83
863 Occupant .... NA 86
863 Occupant .... NA 86
863 Patel Manharbhai 963-9260 80
863 Patel Manjigen R 963-3434 83
863 Takaar M 420-9183 83
864 Duncan M 435-3597 85
864 Gregson M 333-4769 83
864 Occupant .... NA 79
866 #Pavonia
Delicatessen 432-1335 78

ROMAINE AVE

867 Cheney M 435-1165 76
867 Aliyu Navas .... +333-4619 86
869 Adomaitis E 432-4505 00
871 DeMarco L 333-3197 84
871 Spaller A 435-1919 84
871 Madden D J 333-3911 80
881 Amigo R .... +434-2572 86
882 Ginsberg E 432-3565 84
882 Nevis D .... +435-7315 86
882 Skopkova
Alexandria 432-4435 84

VAN WAGENEN AVE

883 Przybylowski B 332-3486 00
883 Abrams Robert .... +432-6322 86
883 Butler M 333-2516 87
883 Couture Stuart 434-4475 80
883 Engle L 434-7960 00
883 Fidhelfhaya Mirza 432-6484 84
883 Giordano Gregory 434-8595 85
883 Kharkovsky A .... +434-5193 86
883 Occupant .... NA 86
883 Occupant .... NA 88
883 Occupant .... NA 88
883 Occupant .... NA 86
883 Occupant .... NA 86
883 Occupant .... NA 80
883 Occupant .... NA 40
883 Occupant .... NA 80
883 Occupant .... NA 29
883 Occupant .... NA 80
883 Rodriguez J 434-4151 83
883 Saad Mary Mrs 333-2177 81
883 Skrybrech F .... +333-3491 86
883 Yacavitch S 434-1110 84

WEST SIDE AVE

927 Bucci P J .... +432-2143 86
927 #Bucci Paul J
plumbing & htg 434-4666 82
927 Mehvill G .... +333-6745 86
929 Occupant .... NA 00
931 Saba A 333-2096 00
934 Bonadio R 432-1443 78
934 Castellano M Mrs 435-5979 81
934 Di Giovanni Alex 432-2385 00
934 Occupant .... NA 86
934 Occupant .... NA 09
934 Occupant .... NA 09
934 Occupant .... NA 00
934 Occupant .... NA 00
935 Gerardi M 435-5417 86
935 Tayabi Rosalinda 433-7787 85
936 Occupant .... NA 79
936 Occupant .... NA 80
938 Nardone Anne 433-1494 00
939 Quinn R 432-1844 00
939 Oyler S 432-1034 00
941 Alsamkary Ahmed M 432-1032 83
941 Ishak Emad 333-4984 80
941 Mustafa E .... +432-6725 86
941 Occupant .... NA 86
943 Occupant .... NA 86
943 Occupant .... NA 86
943 Occupant .... NA 85
943 Occupant .... NA 79
943 Occupant .... NA 80
943 Occupant .... NA 80
943 Occupant .... NA 80
943 Sahena Magdi L 451-3454 83

46-BUS 511-RES 63-NEW

PAVONIA CT

(PO Bayonne 07002)

BAYONNE

From Avenue A nw, 1 ne of W 10th Street

AVENUE A

1 Occupant .... NA 85
1 Krajewski J 339-6447 60
2 Occupant .... NA 00
3 Baccarella John 858-2351 80
3 Finnerty T X 339-0378 00
3 Hayes D Rev 339-0375 05
4 Mendell J D 339-4543 00
4 Kaminski W 436-6316 00
5 Occupant .... NA 00

PAVONIA CT Contd

BAYONNE

6 Occupant .... NA 80
7 Occupant .... NA 00
8 Occupant .... NA 78
8 Occupant .... NA 00
9 Smith A 437-8045 00
9 Smith Robert 437-6345 00
10 Occupant .... NA 00
11 ROBBINS REEF YACHT CLUB
Kwiatkowski L 339-2313 84
#Robbins Reef Yacht
Club 858-0510 00
12 Lenton M .... +339-9742 86
13 Bahoria P .... +339-9746 86
14 Occupant .... NA 00
15 Wegrzyk A J 436-3752 00
16 Di Pierro B 339-2303 00
16 Tarantino D 858-3266 82
17 Pilecki A V 437-4084 00
21 Kowalis S 437-8419 81
21 Kole Joseph 339-6154 80
21 Peregrin Chas F Jr .... +436-8876 86
21 #Robbins Reef Yacht
Club Inc .... +858-4919 84

2-BUS 19-RES 4-NEW

PEARSALL AVE

(PO Jersey City 07305)

JERSEY CITY

From Princeton Ave nw, 1 sw of Lembeck Ave

\-- Wray J Rev .... +433-3629 86

PRINCETON AVE

3 Occupant .... NA 80
11 Crowley Geo 433-2152 00
15 Occupant .... NA 00
17 Hutsel A 433-6219 82
17 Hersel D 451-3956 80
17 Occupant .... NA 00
19 Bogan M S 433-1565 00
19 Occupant .... NA 00
26 Wilson R H 433-0315 00
23 Smith I A Jr 433-1939 00
24 Occupant .... NA 00
25 Occupant .... NA 00
25 Occupant .... NA 86
28 Schaeffer Daniel 332-4007 83
29 Occupant .... NA 78
29 Occupant .... NA 78
31 Davis Max 433-2558 80
31 Occupant .... NA 00
33 Parrales M 433-7548 84
34 Mascatello R W 332-9051 00
34 Burkard G 332-3134 83
34 Logan A V 433-0335 84
36 Monahan J 433-8559 79
36 Mascarello M 433-0215 84
36 Sweeney Denis 433-8558 85
37 Occupant .... NA 86
37 Occupant .... NA 00
38 Occupant .... NA 78
38 Occupant .... NA 78
39 Mang Philip Fou 332-5962 84
39 Occupant .... NA 86
39 Occupant .... NA 86
39 Stevens J .... +433-4970 86
40 Occupant .... NA 80
41 Occupant .... NA 80
41 Myren E 433-3949 00
43 Occupant .... NA 00
44 Madey Daniel 433-8915 83
45 Carney T M 433-4313 85
45 Occupant .... NA 70
47 Brunwald H 433-3797 84
47 Kanna Dorothy 333-3601 00
51 Occupant .... NA 09
67 Occupant .... NA 60

GARFIELD AVE

63 Harvey T K 433-4311 70
70 McNeil F E 451-8447 81
71 Cooper H 332-5431 79
71 Cooper L F 434-5694 83
73 Occupant .... NA 80
73 Occupant .... NA 85
73 Occupant .... NA 79
75 Burroughs L Mrs .... ☐433-6395 86
76 Occupant .... NA 79
76 Occupant .... NA 79
77 Davis M 434-4181 81
77 Davis M 434-4181 85
77 Davis Wm J 434-4151 00
77 Lyford E .... +433-3786 86
78 Occupant .... NA 00
79 Occupant .... NA 79
80 Occupant .... NA 80
81 Occupant .... NA 30
81 Occupant .... NA 80
82 Schullian Edw J 433-2464 00
83 Occupant .... NA 00
84 Yaughan R C 433-0926 00
85 Pellecchia V M 332-1643 00
85 Pellecchia Vincent R 332-1156 78
86 Nikolas G 433-2336 80
86 Occupant .... NA 00
89 Kwan J 433-4042 83
89 Occupant .... NA 00
90 Gallagher T .... ☐435-4131 86
90 Occupant .... NA 71
92 Footman M 332-4810 84
92 Gormeley D 433-5023 78
93 Occupant .... NA 83
93 Occupant .... NA 86
94 Golembiewski F 433-5335 80
94 Occupant .... NA 86
94 Occupant .... NA 00
94 Occupant .... NA 00
95 Keenan H D 433-7601 00
97 Occupant .... NA 86
98 Occupant .... NA 79
98 Occupant .... NA 60
99 Occupant .... NA 00
99 Occupant .... NA 00
100 Occupant .... NA 00

PARKSIDE LN Cont'd

PASSAIC AVE Cont'd

PATERSON ST Cont'd

PATERSON PLANK RD
(PO Jersey City 07307)
JERSEY CITY

From Bergen City Limits on C & A to Union City City Limits

Union City Line
-- Bergenline Ave Split
Hackensack Ave
Union City Line

PALMER PL Cont'd

PAVONIA AVE
(PO Jersey City 07302)
JERSEY CITY

From North River to Hackensack River and from Hackensack River to Newark Bay

Newark Bay
Split Rd
Hackensack River
Hackensack River
Newark Bay

PARKVIEW TER
(PO Bayonne 07002)
BAYONNE

From 9 Lock St Jog to W 22nd St, 3 so old Avenue A

PATERSON AVE
(PO Jersey City 07307)
JERSEY CITY

PATERSON ST
(PO Jersey City 07307)
JERSEY CITY

From Gates Ave to Jr. Ave of Garfield Ave

PARMLEY COURT APTS

PARRELL PL
(PO Jersey City 07305)
JERSEY CITY

From Bobbie Ave to Tonnele Ave, 1 so of Bergen Ave

PASSAIC AVE
(PO Jersey City 07307)
JERSEY CITY

From Scott St to Communipaw Ave, 1 so of Central Ave

PATH PLAZA
(PO Jersey City 07398)
JERSEY CITY

PAULMER PL
(PO Jersey City 07302)
JERSEY CITY

PAVONIA AVE Cont'd

PAVONIA AVE Cont'd

PAVONIA AVE Cont'd

PAVONIA AVE Cont'd

PAVONIA AVE Cont'd

PAVONIA CT
(PO Bayonne 07002)
BAYONNE

From Avenue A one, 1 so of W 15th Street

PEARSALL AVE
(PO Jersey City 07305)
JERSEY CITY

From Bergenline Ave one, 1 so of Lincoln Ave

PARK AVE Contd
1116 Pegnatro V J 659-0026
1117 Flanerty M NA
1117 Brennan Martin 963-9357
1118 Gentile J NA
1119 Clinter Jas J 659-1664
1119 Heights M C 659-1494
1120 Hoene Lorraine *NA
1121 Wilson E Herman 659-2458
1122 Cusimo M NA
1122 Toscalli L NA
1123 Lewis T A NA
1123 Tomlinson J NA
1124 Hauler Rose 659-2130
1125 Moschella A T 656-2956
1126 O'Brien John P 792-1691
1126 Stanley A J 653-5455
1127 McDonough R NA
1128 Eddie's Wine & Lqr Str 659-2349
1129 Kearney F NA
1129 Reveers J 795-1912
1129 Wilson F B 798-1355
1131 Mongen M NA
1131 Seary J 659-0451
1133 Caputo M *659-0522
1133 Ryan W NA
1135 Brouk B M NA
1137 Lopez R 792-1947
1137 Devlin M 963-0909
1139 Musino A 659-1351
1141 Treat T Mrs 798-3544
1141 Mokrea Stephanie Mrs *653-4497
1141 Moller R 792-2646
1141 Rivera E NA
12TH ST
1200 Gezmon R 963-4322
1201 Lewis John F Jr MD 656-0826
1201 Murphy J 963-0311
1202 Bush E *659-8818
1202 Pelda P NA
1202 D Terlizzi M 798-1731
1202 Ramone E M 792-2375
1203 Gibriel G *NA
1204 Albergini P V NA
1204 Macedo J NA
1204 Pedro R NA
1205 Jones W NA
1205 Sharpe David *NA
1206 Bowman G *NA
1206 Francke Herman 659-2457
1206 Burnett P J NA
1207 Conway Agnes Miss 659-2771
1208 Clerkin N *798-0673
1208 Hyera F G 963-1912
1208 Ward J Mrs 659-1956
1209 Hoboken Radio Cab NA
1209 Mahoney A Mrs NA
1210 Gallagher R NA
1210 La Mastro S NA
1210 Tuglio D 659-0721
1212 Berkowitz John 798-6015
1212 Weber Margaret F 659-7261
1212 Von Seggern D M 659-0635
1213 Dombroski W 798-3947
1213 Torres R A 659-0072
1214 De Palma John 659-0795
1214 Hemmel B 795-0154
1215 Clark Robert J 792-2745
1216 Ghirardino P NA
1216 La Freddi S NA
1216 Alingelo L Sr NA
1217 Scott C T 795-0124
1218 Di Benedetto M 798-3671
1218 Nober Madeline 659-0166
1218 Scarpello D NA
1219 O'Connell F V 659-7256
1220 D'Agostino J NA
1220 Fox F 795-0238
1220 Tata J 659-3547
1220 Tata M 798-8170
1221 Parcelli M 659-0840
1222 Angione S NA
1222 La Place V *NA
1222 Lardiere G 653-1395
1223 Haggerty D A 798-3796
1223 Witkowski C NA
1224 Betram R 659-2219
1224 Gallo L 659-0545
1224 McGovern C 795-1581
1224 Romano P 659-4487
1225 Schmidt Charles Jr 963-3412
1226 Bielen Ernest 792-1878
1226 Morales R NA
1226 Rivera V *653-2945
1227 Temple M NA
1228 Altomare Philip NA
1228 Celeste A 798-4326
1228 Davis J F 963-5635
1228 Sen C 795-1905
1229 Borsis C 798-6937
1229 Dahlow H NA
1229 France J 798-1118
1229 Klein Gerald NA
1229 Hardy F 798-6984
1229 McKeever Helen NA
1229 Schmidt J F 798-6775
1229 Sampson V *NA
1230 Viola O NA
1230 Avitabile A A 659-8168
1230 Avitabile Burg 963-4521
1230 Avitabile M NA
1231 Davis R H 798-6408
1231 Kilduff W C 659-6977
1231 Lindsley W NA
1231 Lisa C NA
1231 Menge T NA
1231 Newton P NA
1231 Parvis P 798-0611
1231 Street Geo *659-1233
1231 Wilson W *798-0457
1232 Altomare Morris 659-0060

PARK AVE Contd
1232 Mewista M NA
1232 Traglio A 795-2741
1232 Calley I F *652-2753
1234 Delleprairie Wm NA
1233 De Musso Jos 656-0135
1233 De Nicosis E NA
1233 Eilhoff Edmund V 963-1903
1233 Mahoney John M NA
1233 Shafray Wm T 963-1461
1233 Ortega A F 792-3721
1234 Rear G E NA
1234 Trejben Chas *NA
1234 Gelfusi A 798-4324
1234 Mastropasqua P M NA
1234 Sidoti Jos NA
1236 Balliere Lex Mrs 653-9399
1233 Hort L NA
1235 McKernan J F 792-1257
1235 O'Brien V 653-4942
1235 Padvee L NA
1235 Pena S NA
1235 Shannon C S 659-1162
1239 Toomey F 792-1495
1236 Barbo V J NA
1236 Gagliardi P 656-0610
1236 Menjal F NA
1238 De Santis Michael NA
1239 Doherty R NA
1239 Houghton J NA
1239 Sillette L NA
1240 Climax Geo Sr 659-2360
1240 Climax T 795-5451
1240 La Freddi T NA
15TH ST
1300 Burgos D NA
1300 Crespo A NA
1300 Hernandez N 653-8733
1300 Howe Duel 656-1359
1300 Matty's Tavern 798-9509
1300 Mercado F NA
1300 Rosario F NA
1300 Santiago A 793-2093
1300 Torres Celia NA
1300 Vega J NA
1302 Quiles Angela *NA
1302 Alvarez M NA
1302 Valentin B NA
1311 RAM Knit Inc 659-2394
1354 Shea Pump Valve Co Incorporated 792-0600
1359 Distillerie Internatl Incorporated 963-1979
1335 Oerl L *NA
16TH ST
1400 Bridge Serv Sta 656-0183
1415 Brassell A J 795-2402
1415 Laboratories Inc 792-2400
1415 Nationwide Consumer Testing Institute Inc 792-2400
1418 United States Testing Co Inc research div 792-2400
15TH ST
1560 Pochette Paper Mill *963-3557

PARK RD
(PO Bayonne 07002)
BAYONNE
32 Spanos J NA

PARK ST
(PO Jersey City 07304)
JERSEY CITY
From Communipaw Ave n to Astor Pl, 1 nw of Grand St
COMMUNIPAW AVE
7 Isaac R NA
7 Foster R *NA
6 Buchanan L *NA
8 Paul M 451-2136
10 First Jersey Natl Bank Military Park Ofc Ind 547-7652
10 Owens J Miss NA
10 Gera M Jr 435-7411
12 Hogan D 432-1291
14 Blandy J NA
14 Boyce D NA
14 Duncan Frank NA
14 George A A *333-8399
14 Johnson A 333-7574
14 Jones A 451-0763
14 Pitt C NA
14 Shaw M *NA
14 Smith M *332-1643
16 Williamson L 432-5318
17 The Islamic Ctr of Jersey City *432-1778
24 Conley D Mrs NA
26 Jones R NA
26 Lewis A F NA
24 Viney I C 333-3002
31 Flannery M J NA
33 Cornell C J 434-7233
33 Early M 433-0420
35 Hamilton F 432-0429
36 Wilson H S NA
38 Mack J NA
40 Brewster M Mrs 435-4115
40 Johnson W M 435-4110
41 Mosley Patrick 433-3247
41 Schiraldo R NA
42 Brewer J R 432-4250
43 Butler R *NA
43 Hale Janet Mrs NA
PRESCOTT ST
45 Myers J 435-6563
46 Cayman R 432-4519
47 Watson J NA

PARK ST Contd
43 Wallace R 435-6707
45 Mixon John 432-1760
52 Jackson H NA
52 Pace F C NA
53 Hunter C NA
54 Park Grocery 434-0615
57 Easter F 331-7635
58 Carter M 434-1731
61 Manke J 332-7033
61 Robinson H Mrs NA
62 Fuolk R *NA
62 Miley N NA
62 Brown A NA
64 Casey E A *432-2656
64 Caron Donald NA
64 Graham B NA
64 Grier R *NA
64 Heard C *NA
64 Heard Jas L 451-3252
64 Hill F *NA
64 Rogers L NA
64 Parker D *NA
64 Prince M 332-2643
64 Sanders G 432-9511
64 Smith V E NA
75 Taylor N NA
75 Taylor Prince NA

PARKSIDE LN
(PO Bayonne 07002)
BAYONNE
From W 16th se to W 15th, 2 sw of JF Kennedy Blvd
16TH ST W
2 Kilgall Mary NA
2 Cuculiery John A 436-7507
3 Byrne John J NA
4 Monaco R 339-1299
5 Bell Geo NA
6 Lo Carcio J 436-2313
7 Federchek S 339-8477
8 Tayler J W 436-0553
9 Halliecek F Mrs 437-0471
10 Kling I M 436-3864
11 Weiner S F *436-0201
11A Sinkodnan F 436-3365
12 Feinzaud E A Mrs 339-4687
14 Spadling F NA
15 Markowsky A J Jr *339-4029
15 Stepniak A 339-3673
16 Hetrman M 339-1930
17 Schoettler C J 339-3911
19 Emerick V T NA
19 Oladey C *436-0159
19 Oladey Steve *436-0155
20 Weiners H 436-4614
21 Barbarie S NA
22 Ruud Jos NA
23 Ruderwicz Jean Mrs 437-3397
24 Shipfer Saga 436-2075
25 Cusanglio V *NA
26 Goldreber E A Mrs 436-5741
27 Schuler Herman 436-4521
28 Fusik R 339-5385
28 Pesta S *NA
29 Giesnstein Harry 436-4483
30 Woods E S 437-0126
31 Sedlak G 436-5617
32 Monahan J F 339-5036
33 Ashildhit H NA
34 Cuse George *523-0501
35 Cohen J A 339-2688
36 Roche D W 436-7056
37 Rowen Miriam Mrs 436-7264
38 Rypspoet M 436-4852
39 Manno A 339-5797
40 Mirabelle F 339-9693
41 Smith J J NA
42 Sweeney R J 437-0894
43 Blacky R J 339-4265
44 Krystawicz Sophie 437-1932
46 Melnik John 437-0154
47 Seidenstein J 436-7140
48 Kerler Rehs A NA
49 Carlon A Mrs NA
50 Wamecke L W 437-1425
51 Cutrone J Mrs NA
52 Doomay Wm J Jr 823-1481
53 Feder W 339-0177
55 Feder Saml 339-8489
55 Grigo S 339-2015
56 Shaplin Alex 436-5048
57 Sweeney J J *339-7215
58 Dzenba E Mrs 436-1810
59 Rakowski Gary 436-5737
60 Sienkiewicz A J 436-5620
61 Pagano J J 436-3402
63 Celtino N 339-0841

PARKVIEW TER
(PO Bayonne 07002)
BAYONNE
From W 26th St ne to W 27th St, 1 nw of Avenue A
26TH ST W
16 Miller R 436-7337
17 Sawastky M NA
18 Bieling John T 437-0263
18 Rusk Frank H *436-0263
14 Fox Samuel D 823-0490
14 Chirapu H 339-7926
16 Levy Lawrence 339-9864
17 Fishman Arthur R 436-7542
19 Layden Jack 436-2271
19 Minelli S G NA
20 Cinella A 437-0022
20 Cytkin Sid 437-0080
21 Cahen J NA

PARKVIEW TER Contd
57 Kogut M 437-0163
21 Kowsich Victor 437-0341
24 Szcezil C H 339-5359
22 Bresnick M 437-0526
26 Eberst W NA
27 Shankar Herman 436-0519
27 Shanker F 823-1378
28 Barbuz Saml 437-0930
29 Shankler F A 436-5161
30 Supowick Jacob 436-1755
31 Gorsbeck T 437-0437
32 Appelbaum R D 798-7304
33 Pototzky J C 436-2097
34 Le Boss A 436-4139
34 Le Bus F 339-1136
35 Baumgarten L 437-0724
36 Mellon Mildred NA
37 Pasternack Wm 437-0298

PARMLY COURT
See 343 Fairmount Ave (Jersey City)

PARNELL PL
(PO Jersey City 07305)
JERSEY CITY
From McAdoo Ave ne to Warner Ave, 1 sw of Pargate Ave
MC ADOO AVE
3 Catanzaro A F NA
3 Pascucci S 333-0472
3 Zyczkiewicz S NA
9 Doyle Helen *NA
9 Vuoto A 433-0841
10 Czyzlicz R B 333-8725
10 McGowan J NA
12 Gatz Mabel Mrs 433-1436
14 Kopinsky C 451-7078
16 Rosicwol J T 332-0197
18 Saunders B 434-0462
17 Mendoza C J 432-5193
18 Franck John *435-2061
18 Meyer C *NA

PASSAIC AVE
(PO Jersey City 07307)
JERSEY CITY
From South St ne to Congress St, 1 nw of Central St
SOUTH ST
8 Ricora M NA
22 Acosta A NA
22 Olszechowski Thos 792-1707
22 Harenteck R *420-1509
22 McCormack S *NA
22 Primavera Jas 420-1016
22 Redmond J *NA
22 Whalen D *963-5771
39 Mancuferra T L NA
43 Xalde Joey *963-5719
46 Sensey W Mrs 795-1394
45 Carlsaz E *NA

PATERSON AVE
(PO Hoboken 07030)
HOBOKEN
From 300 blk Newark Ave nw to Jersey City Boro Line
CONGRESS ST
OBSERVER HWY
4 Sport Center 659-0777
6 Zaltzman M NA
8 Pedretilewski F NA
JACKSON ST
50 De Pravo S Co stampery 659-1995
54 Artie's Auto Laundry 798-7020
57 Schleuder P 963-9475
57 Brookhill W NA
59 Gill E Mrs 656-5530
59 McKirdy H 659-1253
61 Mola Iron Work 963-5469
65 Butler L Mrs 659-0561
99 Regional Import & Export Co Inc *659-3408
HARRISON ST
115 Regional Import & Export Co Inc 659-1502
116 Regional Import & Export Trucking 798-9712

PATERSON AVE
(PO Jersey City 07307)
JERSEY CITY
1ST ST
33 Pearson F 792-0424
111 Moreno Grace Marie NA

PATERSON ST
(PO Jersey City 07307)
JERSEY CITY
From Gated Ave ne, 1 se of Garfield Avenue
CENTRAL AVE
6 Deane C Mrs NA
7 Fucelli Geo Jr 963-6150
8 Murphy E NA
10 Century Roofing Co 653-2690
11 Church of Jesus Christ of Latter-Day Saints—Jersey City Ward *653-8867
12 Kelley Robert NA
12 Maud R NA
12 Monahan O NA
12 Riley Jas 963-2415
12 Stashkewski D NA

PATERSON ST Contd
15 Eckerson R [illegible]
14 Greene J [illegible]
14 Galligan A [illegible]
14 Pellecchi J M [illegible]
14 Pistacy J [illegible]
14 Sokolowski V [illegible]
15 Palmese C [illegible]
16 Hoffman A [illegible]
16 Sears George [illegible]
16A Frost Fleming [illegible]
16A Frost Jas [illegible]
17 Adamonis L [illegible]
17 Hacker M E [illegible]
17 Brown A T [illegible]
17 Brothher F J [illegible]
19 Brochner S K [illegible]
19 Frost Wm [illegible]
20 Hanrahan P [illegible]
20 Lange A [illegible]
20 Sloan T [illegible]
23 Colarusi Jas J [illegible]
23 Galella R [illegible]
24 Murphy Edw [illegible]
24 Wier R [illegible]
27 Piselli L [illegible]
27 Vicari J [illegible]
29 Reddy J L [illegible]
31 Donato M [illegible]
31 Donato R [illegible]
31 Marzo Michael [illegible]
33 Dougham J J [illegible]
34 Di Gennaro T [illegible]
34 Conway L [illegible]
35 Rerlie J [illegible]
35 Kessler Jos [illegible]
35 Barnett P H [illegible]
36 Daniels G V [illegible]
37 Irving A [illegible]
37 Wells E A [illegible]
37A Trailer Bar [illegible]
PASSAIC AVE
39 Gibson T [illegible]
39 Lavis J J [illegible]
39A Pettingue M P [illegible]
40 Cicero M V [illegible]
40 Manzaforo P [illegible]
40 Rudd Edw [illegible]
41 Gallardo R [illegible]
41 Lunas D [illegible]
41 Lombardi L [illegible]
41 Nichols R L [illegible]
41 Redfern M [illegible]
41 Van Bakkin John [illegible]
42 Murphy J J [illegible]
42 Murphy J T [illegible]
45 Kinder M [illegible]
45 O'Rourke Wm N [illegible]
45 Kaine S [illegible]
46 Bonfigaro A [illegible]
46 Dawson C J [illegible]
46 Kohill Mary Mrs [illegible]
46 Schlank John B [illegible]
46 Sheehan Wm T [illegible]
49 Cosmal Michael [illegible]
49 Galvin J [illegible]
52 Lisa Joseph Mrs [illegible]
53 Burke E J [illegible]
SUMMIT AVE
54 Santa Maria L [illegible]
56 Pomedi Rolf P [illegible]
56 Sponenlack N [illegible]
58 Delp R [illegible]
58 Luca Anna Mrs [illegible]
60 Medici F A [illegible]
62 Coyne H V [illegible]
63 Tracy C Jr [illegible]
63 Helios R K [illegible]
64 Behrendt Saml [illegible]
64 Palmieri Vincent [illegible]
66 Burns E [illegible]
65 Johnsen F [illegible]
65 Nichols Robert C III [illegible]
66 Somerville H [illegible]
67 Vila Nathaniel [illegible]
68 Hayle D [illegible]
69 McCarthy Gerald [illegible]
70 Gorst A [illegible]
71 Roche D S [illegible]
76 Gallas John [illegible]
76 Carry J [illegible]
76 Greenwald R [illegible]
76 Menck R [illegible]
76 Sarapel J [illegible]
PIERCE AVE
78 La Rocco J [illegible]
78 Perry M Mrs [illegible]
78 Ulisse Josh [illegible]
79 Weigandt F Mrs [illegible]
79 Zeuler J F [illegible]
79 Doltz W [illegible]
80 Baron O [illegible]
80 Karzyinski P [illegible]
80 Theede Peter [illegible]
80 Theede Peter [illegible]
81 Oppenwold F [illegible]
81 Von Alm W J [illegible]
82 Sutton M J [illegible]
85 Zabellsky R Mrs [illegible]
85 Crowley L [illegible]
86 Mc Sorley Jas [illegible]
87 Bald Florence Mrs [illegible]
88 Almasler F [illegible]
88 Wojcik S [illegible]
89 Lamb M Mrs [illegible]
89 LAdge B C [illegible]
90 Bald Wm Jr [illegible]
90 Steinberg Herman F [illegible]
92 Rodbyma H [illegible]
92 Chilbert A [illegible]

PATERSON ST Contd
93 Spruck S 656-3573
94 Rowland N *NA
94 Villa E I 963-0963
96 Hodges V *798-1340
97 Joelmeyer D H NA
97 Stallmeyer W H 659-2050
98 Kiel Edward NA
99 Merdell O NA
101 Dembiczak Chas 659-3555
101 Dembiczak E Mrs NA
102 Shaw W 798-0735
104 Lillard Hearn 659-0473
104 Lebland S 656-5791
104 Barr P M NA
105 Pedey J G 798-2596
105 Kapler M *798-2347
106 Bernstein H 659-3655
106 Penta G NA
106 Paulsen R Mrs *653-6648
107 Carroll J NA
107 Dorney M P NA
110 Bellisimvaris W NA
110 Lefaro Luke *NA
111 De Anal Jos 659-4071
112 Infante I 795-3040
113 Simmons L J NA
115 Gaiaga Ralph NA
117 Palosky F NA
114 Rogers Michael NA
121 Lyons T NA

PATERSON PLANK RD
(PO Jersey City 07307)
JERSEY CITY
From Hoboken City Limits nw & e to Union City City Limits
UNION CITY LINE
JERSEY CITY LINE
100 Hochberg Fredk NA
100 Armetta James *NA
112 Curtaw Mfg Co 659-0585
122 Lev-El Co 653-4066
CONGRESS ST
200 Rogalite Inc *963-1691
201 Santoplato L NA
201 Bergamasi F 798-4575
201 Rappy M J 659-6879
205 Waller J A 653-9920
205 Matthews Geo 798-7450
205 Velde F NA
205 Velde R 798-0211
206 Justo Robert NA
206 Martin J 656-4019
209 Schindler R K NA
210 Gabriele Jas 798-0576
205 Dixon B *963-5772
207 Pulcella C A 795-1405
210 Deer Samuel NA
210 Garcy J 659-5973
210 Napolitano Saml NA
212 Dilando J A NA
214 Delmo D *NA
214 Gruzaol A *963-2434
214 Spadaveccia J 659-3642
220 Fasulace's Italian Food Co Inc 653-6025
224 Trone S 795-1960
224 Trone R Mrs 659-4041
224 Carrabino A NA
224 Gaeta N Mrs NA
228 Martin M 798-1542
230 Arcabuse R Mrs NA
234 Asrato Jos 653-3115
236 Lomer W *653-3145
240 Dorrington E *963-2394
240 Gomes Jose Jr *963-1169
240 Cooke A 792-0492
240 Cooke Ronald G 653-6389
240 Zavaloni D *NA
250 Metsge C Mrs 798-4627
250 Sulich M 659-0607
250 Unteffing M *NA
252 Krueger E 798-5748
254 Dailes J 659-8327
254 Deponte D 753-5570
254 Al's Exxon Svc 653-5630
CENTRAL AVE
314 Cooper Alanna NA
316 Valentene V *NA
314 Alvarez E NA
316 Quinones P C NA
320 Ocdonal Luis 795-4350

PATH PLAZA
(PO Jersey City 07306)
JERSEY CITY
1 Nitman Const Co 963-9500
1 Journal Square Transportation Corporation *653-1351

PAULMIER PL
(PO Jersey City 07302)
JERSEY CITY
HENDERSON ST
2 Alvarez Lorenzo 333-4594
4 Zalensky R NA
5 Villarla Miguel 451-8445
6 Weitlerlowski C NA
6 Weinlerkowski H 439-0445
7 Nostalica F NA
8 Valles R NA
9 Rivera R NA
9 Ross Christine *435-1349
9 Ross L 435-0074
10 Hyman Eric 451-2746

PAVONIA AVE
(PO Jersey City 07302)
JERSEY CITY
From North River w to Jersey Dr, then from Newark Ave nw & w to Kennedy Blvd
THIRD AVE
— Allen County Co Inc 963-3630
ERIE & R R
20 Mid-Federal, Warehouse Incorporated 653-7059
40 California Shippers Association 653-4242
60 East Coast Shippers Incorporated 656-7711
60 Kansas City Shippers Association 653-4242
80 LAWI-CSA Consolidators Inc 653-4242
KILSO ST
100 Acquino Auto Transport Incorporated *656-1133
100 Equipment Industries 653-1160
127 United News Transport Co Inc 798-3658
PROVOST ST
137 Holland Printing Div of Tenn Svs Inc 239-1300
141 Fleishes D NA
142 Di Fiore Steven 963-0515
142 Flavor G *653-0979
142 Terry's Discount Boutique *653-2351
145 Wasilewski G NA
147 Sandeel E NA
147 The Youth Svc Cntr *656-7514
149 Barnara T NA
149 Granchar Della *NA
149 Sero T Mrs NA
149 Zeragosa Enrique NA
150 Clark's N Y & N J Express Co 656-1060
156 Darrymple J NA
156 Hannon William 420-1137
156 Sno Pezzola Retirement 653-0447
175 Bardlle M NA
155 Toulos C NA
155 Diluzo D NA
HENDERSON ST
— Clark Parthnon *798-4757
GROVE ST
195 Laundry-All 795-1853
201 Berano Emundo *653-4124
201 Romanek J *NA
201 Gaudelio G 798-2860
201 Machalino A *NA
201 Marcum J NA
201 Joseph T *656-7210
201 Pazkowski J A 798-4925
201 Vanvaldt H J 653-0152
203 Alvira P NA
203 Oberholz Della 793-1249
203 Gades Agnes M NA
203 Manes M NA
203 Matyka J 798-4134
203 Zawalanowski S 656-6147
203 Rasche F S 653-0511
203 Smith B NA
203 Rosenfeld S 656-7414
205 Gutleich C Mrs 795-3947
205 Kent Richard 656-5451
205 Klug H 795-9609
205 Laplaca H Mrs NA
205 Moat Anthony NA
207 Nesko J 656-0245
207 Reyes F NA
207 Shawchuk M Mrs NA
209 Dol Joe 798-6387
209 Reswell W 653-1134
211 Clukowski L NA
211 Costello F NA
211 Rydzewski S NA
213 Prokopenko B NA
213 Pasowski E 798-1946
215 Avelas D 798-4490
215 Lopez George NA
217 Menihan M *NA
219 Collins M NA
219 Kiewski Jos 656-8491
219 Ryan J Mrs 653-5231
221 Markowski A A 653-1380
221 Kollar Jos 798-1756
221 Kope Barry NA
223 Rodriguez V M NA
225 National Cinar 798-3401
225 National Wird Shirt Laundry 798-3401
ERIE ST
231 Jersey City Free Pub Lib Pavonia Br 435-6282
HAMILTON PL W
235 Donalee G Mrs *NA
280 Martin Wm J NA
281 Kowalczyk G M 795-9114
282 Walrod D T 656-2445
283 Ciravinski Jos A NA
283 Beardell M NA
284 O'Rourke A 656-8983
284 Tuohy J NA
285 Kucker V Mrs *NA
285 McDonald E G NA
286 Lebrun I *NA
287 Kanay G M Mrs 653-8982
287 Curtiss Edward Rev 959-3721
289 Gaddis J 653-7469
COLES ST
281 Donovan H NA
282 Carvelier H 798-7962
272 Deasel William NA
288 Duljaski S *659-1656

PAVONIA AVE Contd
289 Hermanos M 653-3789
318 Garsto F B 798-1351
333 Rosado Luis NA
334 Ramos C A Mrs 963-3587
294 Montecalo A 656-8015
295 Jaroszynski A 798-2231
295 Nalbowski W D 653-8130
295 Watanabe R 798-4234
296 Sperty W 653-0402
296 Prohasska L 798-3781
297 Breonat S NA
297 Boesley J *795-1518
297 Kucha Kragenburg NA
298 Wilson M *NA
299 Pavonia Wine Inc 798-0500
300 Production Mfg Inc 798-4023
300 Jackson F 795-3454
305 Valdueco Construction NA
305 Lagasse J NA
312 Dillon W NA
316 Central Fast Co 656-3023
320 Deltar R NA
310A Wesselowice A 653-4117
312 Conyer Barry Mrs 656-5021
312 Mashon J L 963-0460
314 Gellula F Mrs NA
314 Surprin S 656-5618
315 Gutierrez S NA
315 Meraler Ann NA
316 Lopez Pedro 963-1605
317 Belle E 793-2447
317 Gribovnyl P S 656-3419
317 Rodenko Joseph 798-6649
318 O'Keefe F 659-1315
320 De Jesus A *NA
320A Janszek S E NA
321 Akrachas W 963-4316
321 Dibrell M L 653-7733
MONMOUTH ST
321 Wallace J J 798-2193
321 Evans A 795-0243
325 Walters O NA
329 Opplinger C Mrs 795-1748
329 Koller J 798-3373
330 Marin A 653-6037
330 Brady J NA
330 Ferreira J X *NA
330 Haug I R 795-9839
336 Tomasello A NA
330 Higgerold L *963-8319
331 Marshall M NA
331 Brennan J J NA
332 Matthews Wm W 798-2311
332 Petrutie A 653-0511
332 Pacesto D I 798-1731
333 Roberts J A NA
333 Stankala M J *963-4357
334 Sanders A Mrs NA
334 Redmond J 963-6044
334 Trapasse G T 798-3645
335 Blessing R NA
335 Gardina B 656-0032
336 De Martini R *436-1618
335 Lowenthal C *659-2816
336 Tortoglio D 653-3164
336 Stone A 792-0239
337 Hutchins A NA
337 Vale Ruth A NA
337 Pisano J 659-4571
340 Brown W NA
340 Caballo V *653-0018
340 Cappell J NA
340 Coon J NA
340 Orilla N 659-7412
340 Magnus Wm 798-1567
340 Simone Augusto NA
341 McShane C NA
341 Newcomb Chas NA
341 Graeleson D J 659-9279
341 Stevens E J 656-0293
342 Schultz T NA
342 Alvarado M 963-7035
342 Marcinko E Sr NA
343 Carlenzia J 798-0105
343 Perella N NA
343 Martin R *NA
344 Clough A Mrs 963-2151
344 Dombrowski J 659-9070
344 Meste M 798-8677
344 Kessler T Mrs NA
345 Bisso C A 653-4134
345 Berkowski K NA
347 Curran J NA
347 Coral C A *798-1938
347 Rubeski M *792-4907
347 Chiltreel C A NA
349 Rodelin A F 963-4572
349 Da Marco Y Mrs NA
349 Coleman D *NA
350 Cheves Avelo NA
350 Rodriguez N NA
350 Lotella A NA
351 Astral Jose NA
BRUNSWICK ST
TO 07306
NEWARK AVE
— Little League *NA
445 Ammolly A 798-1041
445 Costa Anthony 653-0120
445 Fachet S *659-7415
445 Jayes Richard *NA
445 Lenahan Larry *NA
445 Warzecharowski H NA
445 Warzecharowski S NA
447 Romelli V 798-0798
447 Hutchings Ahmad NA
447 Ryan M NA
447 Stuhne N NA

PAVONIA AVE Contd
443 Aquila J 653-7279
443 Bird M NA
449 Conrain Tony NA
445 Franges J *NA
449 Icou J F NA
449 Hermanski J NA
451 Gonzalez M H *963-6729
451 Opsonen D *NA
453 Rollinson John *NA
453 Torres Ramon *795-3251
455 Jersey Roofing Co 656-9751
457 Logan R NA
457 Attreaso C 653-2930
457 Spinello Mario *653-2350
461 Sinha Oto C 656-3131
463 D'Amato G P NA
465 Bassano D 792-4295
467 Mauer V NA
467 Rodriguez C NA
467 Brindle C *NA
469 Gonzalez R *NA
469 Negron B NA
469 Doris D *420-1373
471 C Rock John J *963-1523
473 Wisniewski Brake Shp 653-5093
473 Wisniewski W 963-1729
475 Hub Automatic Air Conditioning 798-6334
475 Hub Automatic Transmission 798-6334
CHESTNUT AVE
454 Calnelier R W 798-4234
454 Stabile J 653-6829
480 Ayers F 659-3738
486 Nowhowe Joseph NA
488 Boardi A NA
480 Suarez Carlos NA
480 Ovelli J J NA
490 Dondes L A 798-2429
492 Hamburger Chas 795-1739
492 Melvin J *NA
492 Maheshek J 653-3778
492 Doran Wm Jr NA
492 Kirmanz A NA
492 Lessanic G Mrs 795-3131
492 Lopez Ana NA
494 Espinoza Manuel 656-2854
494 Brodkowski C NA
494 Francisco H J 656-5209
494 Hernandez Wm *NA
494 Peralta Thos M 653-3617
494 Pena J A 656-5209
494 Thornton B NA
496 Ackerman M NA
498 Morio A 653-7063
495 O'Donnell R J 963-2118
496 Carillo Julie NA
498 Gelatina S NA
495 Tuckfield Emma NA
502 Green I R 653-4348
502 Ippolito J 798-0356
503 Carbone Elizabeth NA
504 Reilly J NA
506 Lafaretti L J NA
506 Medel Helen Mrs *NA
506 Moriat M Mrs NA
508 Alessano R B Mrs 656-3147
508 Caguadelos E *798-7587
508 Farrels Jas J Jr 656-0919
508 McMorrow M 653-1447
508 St Joseph's Grammar School 653-0128
510 Ball E NA
510 Corcoran B Mrs 653-5665
510 Perennaz M *NA
510 Glad A NA
510 Hugo Frank 653-7532
511 Derbyshire Joseph Rev *653-0192
511 Derbyshire J V Rev *659-5106
511 Millirelle R Rev NA
511 Facunda J Rev NA
BALDWIN AVE
537 Hilton Food Mkt Inc 653-7345
537 Macool B A Rev NA
537 St Joseph's Nursing Hm for the Blind Inc *653-9300
537 St Joseph's Hm for the Blind women's dept 653-9043
537 St Joseph's Hm for the Blind wk dept 653-9134
541 Citchman Jas F 963-4415
541 Climax M NA
545 Romano A F 798-4852
549 Hostat Jas A 795-1562
551 Allibank M NA
551 Mahlak Chas T NA
551 Smiley A Mrs 798-6821
553 Stark H NA
553 Casey B NA
557 Hehus G Mrs 656-1995
557 Murphy Jas J 798-7173
557 Reilly L Mrs 656-4375
563 Camarella R 656-1115
565 Babiewicz E Mrs NA
567 Carne T 653-3357
567 Sierra Gilberto NA
WILLOW CT
565 Coughlin John J 653-1067
569 Giardella Mildred Mrs NA
569 Isabella Edw NA
576 Hudson Co Jail 653-3050
576 Hudson Co Penitentiary 653-3917
SUMMIT AVE
592 Ginsburg L Mrs 653-2006
592 Cene Edward M DDS 653-5404
594 Cyprot E Mrs 659-1533
595 Dandalocky B 659-4593
596 McNulty H NA
596 Walrood F J 963-3169

PAVONIA AVE Contd
597 Adair R NA
597 Stoddard F *NA
598 Lederman Ann NA
598 Nelson G Mrs NA
600 Gilberto Helen M 659-1657
601 Mastrlavgelo M NA
601 Cunningham Jas NA
602 Cunningham M NA
604 Tamer B 659-1634
605 Bradley Perline *NA
606 Cames J NA
605 Delaney Edw J Mrs 659-3179
605 Da Vera M *NA
605 Drewsler M NA
605 Gretfitt V F 963-1797
605 Gill M J NA
605 Cleavy H F NA
605 Haul R B NA
605 Rzecki M 795-5749
606 Leone M NA
606 Lillian Bagnell NA
608 Lobas A 963-4492
608 Lobos Anna NA
608 Mulkern H NA
608 Moreis Lilo 792-0748
608 Noland M E *963-1914
608 Mentesinos M 963-1361
608 Quinn J J 653-3412
605 Bollandello M M 653-7569
605 Edwards J H Clarence 653-7154
605 Sullivan A M 963-1404
605 Tuvallin Jas R 798-2547
608 Thom F NA
605 Whanwalter E 420-5767
606 Wasser Frank 656-8475
608 Whitten M NA
608 Paar F Carla 653-7375
609 Rodena T *NA
611 Sellotti Mundio Mrs 653-9145
611 Walbell Temple Hm 653-9155
612 Conkins Jas F 798-4406
612 Monty W *NA
612 Rosenlight Arthur 653-0617
612 Rose Coast House 653-9685
615 Scally A J NA
615 Burke W F NA
616 Sullivan L *NA
616 Woodsinesky A NA
617 McDonald H *NA
GLENFIELD PL
620 Alfonte R Mrs NA
620 Allen F M Mrs 656-5154
620 Brown H Mrs 798-1649
620 Cornelli Philip J 653-2176
620 Az Fablious C Mrs 798-3764
620 De Gloe F Mrs NA
620 Donohue Helen 653-1135
620 Donohue Thos H 653-2661
620 Palmerallo T Mrs 792-6125
620 Gedford John NA
620 Corning A A NA
620 Healey W W NA
620 Kreinfeld Edw 963-5710
620 Londregan L M 798-9068
620 Long V NA
620 Magera Stephen F 656-6070
620 Mess W 653-5366
620 McLaughlin Thos J 792-4647
620 McVey S 653-1140
620 Negri Elizabeth M Mrs NA
620 Nelson E R 653-0545
620 Nolan Jas R 798-1397
620 Fogley John W Rev 795-0476
620 Payne Walter 963-2100
620 Pfeiffer H R 798-9454
620 Riordan Timothy 653-9342
620 Rogers Goldie 963-1106
620 Rosenlight Arthur 798-1455
620 Bono R Consula 798-1415
620 Seller F J 653-1871
620 Sammon J M 795-1190
620 Schilow E H 656-7748
620 Sims M Mrs NA
620 Steiney F M Mrs NA
621 Alexander J Mrs NA
621 Book Joseph 798-3194
621 Chirelli F Mrs 798-2354
621 Zalegs M *420-8937
625 McLaughlin Fund Hms Journal Square 798-5700
626 Branhart J 653-4474
626 Martillo Wanda 653-4456
BACOT ST
801 Square Ramp Parking 451-3071
810 Horovitz Faye *451-8498
810 Roess Albert *435-0255
812 Alvaro A NA
812 Bacey W *451-0254
814 Michaleson E 435-1917
814 Wilson V 451-1810
816 Emmanuel Salon Co NA
818 Malenacek K 451-5375
816 Yuan B 432-7164
816 Andrews R A 435-0272
816 Mitchell F Mrs 433-8206
817 Farrell Y R NA
818 Thubeman O *NA
818 Wissner C R 435-7599
819 Feter E 435-7084
821 Callam J *432-4329
821 Almodovar A P Mrs 435-5525
821 Najasky F 433-5575
821 Najasky S 434-5771
825 O'Donnell Agnes L 435-0379
825 Tent Joseph F 434-7611
825 Contractor Action 433-5052
821 Lambert A 435-1451
825 Chapp A 433-5248
825 Lapinsky Inc Jos NA

PARK AVE Contd

925 Hermida E NA
925 Lebron Candido 798-1569
925 Robles O 653-0911
926 Roenig H 963-2223
927 De Sade O NA
927 Feliciano R NA
927 Fodala L 798-8762
927 Miller A 795-2025
927 Patel J A 795-6896
928 Wall J 798-1802
930 Patovsky J P NA
930 La Fragola M 798-0399
930 La Fragla F 656-6051
931 Altomare John 798-2355
931 Reinholder Kelemen NA
931 Hayes G 653-7469
931 Mongelli E 795-0230
931 Neale J 653-8189
931 Nielson K NA
931 Zintzer M Miss 795-2540
932 De Jesus Gerardo NA
932 Lombardi A 656-5208
933 De Angelis A 795-4417
933 Patovic M NA
933 Shamela M NA
933 Sarnecki M 798-5263
933 Tenebelgo P NA
934 Vilardo A NA
934 Penafiel Z 798-9140
935 Flores J A NA
935 Gonzalez A 641-5464
935 Lopez A NA
935 Lopez A 795-5132
935 Ortiz E NA
935 Rivera Ponciano Mrs NA
935 Saenz Joe NA
936 Vega A NA

10TH ST

1000 Lucey J 656-9162
1000 Quality Delicatessen NA
1000 Teuple J Mrs NA
1002 Garrick A RN 795-5206
1002 Garrick B 795-5204
1004 Lally Dennis 795-0787
1004 Van Sweringel J 659-1148
1007 Foy C J 653-2984
1008 Cinco Vic 656-2086
1009 Ludas Anthony 792-9696
1010 McGuire John J 659-1303
1011 Burgos A NA
1011 Crowe R 659-2884
1011 Gannon L NA
1011 O'Connor F M NA
1011 Penn K NA
1011 Vayes Mary Claire NA
1012 Alonso O NA
1012 Bujanich C NA
1012 Ciccolella Sergio 795-0293
1012 Compitello M NA
1012 De Plaza O NA
1012 Gloritze D NA
1012 Iolascon A 656-1376
1012 Lynch Frank 798-6329
1012 Matette E NA
1012 Fangilli J 656-7520
1012 Suarez L NA
1013 Gomez A NA
1013 Torres C NA
1013 Vezzi J 656-7650
1016 Bresnan J NA
1016 Hanson M NA
1016 Martin D NA
1016 O'Connell D J NA
1016 Quinlan Wm NA
1016 Sabatini Mary NA
1016 Smalrendzik R NA
1016 Heppenin Wm NA
1016 White G NA
1017 Di Gennaro A 798-4932
1017 Hildebrandt R 792-3546
1017 Silverman R 798-5667
1017 Pasternello Ettore 795-1225
1020 Buvanga J NA
1020 Caputo M NA
1020 Coyca D I NA
1020 Minerviul M NA
1020 Mitchell Jr 795-2615
1020 Pacanelle T NA
1020 Penn K 794-3695
1020 Schwiwarth D 795-4206
1020 Sitorov P NA
1020 Valente F 792-1445
1021 Reynolds E NA
1021 Catalano A Yorke 659-5476
1021 Cella F J 656-2056
1021 Cyrowitler F R 659-0220
1021 De Felice L 795-4465
1021 Montanez H 705-4825
1021 Montana J NA
1021 Salerno Joe NA
1021 Sexton Margaret R 656-3572
1021 Sifferd L NA
1023 Canda M NA
1024 Huberts Chas NA
1024 Content N NA
1024 Gigante Cosmo 798-0970
1024 Gigante L 798-3701
1025 Parry L NA
1026 Parnell V F NA
1027 Mayer L NA
1027 Palazzolo S NA
1027 Sulich Joe 659-4456
1028 Ochsenbagel M NA
1029 Gilligan J NA
1029 Hollenbrecht F 659-5144
1029 Hurkansbe B NA
1029 Wallace J J 659-2480
1029 Wallace V Miss 659-1528
1030 Connell V 798-7430

PARK AVE Contd

1030 Martin Wm 798-7420
1030 Murphy E Mrs NA
1031 Comizo Y NA
1031 Nova Y NA
1032 Paper J 659-0233
1032 Tuma Ella Mrs 794-3576
1032 Tuma J L Mrs 798-6078
1033 Mauro Rosemarie NA
1033 Wallace Arlene 656-3313
1034 Di Iorio J 798-4848
1034 Pesano J NA
1034 Traut A A 963-6074
1035 Klob Carl W 659-2618
1035 Smith Wm Mrs 659-5975
1036 Hammond Alfred Mrs 659-1466
1037 Della Pena F A 798-2028
1037 Di Blase M 798-0271
1037 Grima Y 659-2898
1037 Tedesco Mateo 656-6651
1038 Carey A 659-1272
1038 Lifrieri F NA
1038 Pellicane F A 653-7764
1042 Gregan John J 659-6536
1042 Fiber Glass Dyers & Tailors 659-7646
1042 Lopez B 659-6620
1042 Marquez E 792-4256
1042 Mortorell F E NA
1042 Menendez J NA
1045 Spelter Freda Mrs 798-2447

11TH ST

1104 Sheehan V 798-1532
1104 Heinrich Wm 656-1595
1104 Lennard Flavio 795-8326
1104 Monaghan J NA
1104 Montana Rafael NA
1104 Wilson G A NA
1104 Wirth Edw Mrs 798-1600
1106 Conroy T NA
1106 Higgins Anna Mrs 792-2171
1106 Valenta M 659-3102
1106 Marnell Jos R NA
1106 McLaughlin E 656-8364
1106 Schmitt A NA
1106 Smith E B NA
1106 Sugden J 795-8676
1106 Stagle E NA
1107 Callahan F 659-0721
1107 Treacy A 792-2568
1108 Crehan T 798-2151
1108 Cuthey Clare P 659-0663
1108 Desfarlen E 656-4679
1108 Kagle Ralph 656-2272
1108 Lite J NA
1108 Phillips E NA
1108 Schimpfweber P 659-5505
1108 Spoyer E 792-2471
1108 Tuzzo J 798-5751
1108 Vera F 792-3696
1109 Greene P J 792-8780
1109 Hoeltje J J 659-3280
1110 Caulfield NA
1110 Caulfield M P NA
1110 Farrey W C 656-9775
1110 Franklin D 798-1250
1110 Holden C NA
1110 Killen J 656-3242
1110 Leavitt C NA
1110 Lawler Margaret Mrs NA
1110 Boynton J 795-1912
1110 Terry C NA
1110 Wilson Grace C RN 792-0107
1110 Richardson Ann NA
1111 Angiolino Wm 792-7179
1111 Gallagher John J 656-1061
1112 Conroy W NA
1112 Filipe John 798-1447
1112 Garofalo H 653-4708
1112 Mundino J NA
1112 Rocco C 656-1281
1112 Stuhl B NA
1112 Tharp P V Jr NA
1112 Ward C NA
1112 Witowski E Mrs 963-5610
1112 Zindelli R 963-8364
1113 Flannery M NA
1114 Behan G NA
1114 Lebanbeck D Mrs NA
1114 Lopez R NA
1114 Mann M NA
1114 O'Lynn T NA
1114 Ortiz A NA
1114 Papagallo L 659-1011
1114 Quiles A NA
1114 Smith T M 659-0096
1114 McCarthy Wm A 659-7226
1115 O'Brien Nicholas 798-7217
1116 Pagnotta V J 659-2906
1117 Flannery J NA
1118 Brennan Marie 963-8637
1118 Brennan Thos NA
1119 Clyne Jos J 659-1464
1119 Clyne Jos J 963-1284
1119 Haltpin Mary 659-1384
1119 Halpin Mary 963-1651
1121 Wilson R Marian 659-2986
1122 Cephla M NA
1122 Kenny P NA
1123 Lewis T A NA
1123 Tumbauro J NA
1124 Hennen Rose 659-2210
1125 Mocchello A T 656-3964
1125 Mocchello Thos 656-7178
1126 O'Brien John F 792-1691
1126 Stanley A J 659-8423
1127 Lalmo J 659-7486
1127 Zill G 963-0794
1128 Eddie's Weld & Iron Wks 659-2348
1128 Kearney P NA

PARK AVE Contd

1125 Ronaldi G NA
1129 Siebinger E M NA
1129 Wilson E B 798-1386
1131 Morgan M NA
1131 Sears J 659-0451
1133 Lewis John F NA
1133 Ryan W NA
1135 Braun L M NA
1137 James D NA
1139 Medina A 659-1181
1141 Barber I M 792-3270
1141 Ivers T Mrs 798-3344
1141 Muller K 792-2856
1141 Rivera E NA

12TH ST

1200 Arroyo F NA
1200 Melendez J NA
1200 Perez Grocery Store 659-9211
1201 Lewis John F Jr MD 656-5526
1201 Murphy J 963-0811
1202 Bedell P NA
1202 Di Terlizzi M 798-4734
1202 Parsons E M 792-2325
1202 Protamontano M L 656-7207
1203 Greffe S NA
1204 Da Malla Edw Y 963-6710
1204 Minervino P V NA
1205 Binder R 659-7514
1205 Jones W NA
1206 Franche Herman 659-2857
1206 Gaussl Louis 656-1153
1206 Rowen P J 659-0787
1207 Conway Agnes Miss 659-2771
1208 Celik Cen 659-7332
1209 Hoyne F G 963-1012
1209 Ward E Mrs 659-1565
1209 Hoboken Radio Club NA
1209 Hackney A Mrs NA
1210 Gallagher K NA
1210 La Rivere E NA
1210 Tinglie H 659-0721
1212 Beckowitz John 795-4015
1212 Stuber Margaret F 659-7201
1212 Van Seggern D M 659-0695
1213 Amer Sophie Mrs 656-1006
1213 Bombardi W 798-3347
1214 De Felipe John 659-1780
1214 Spessard P 795-6154
1216 Glengolano P NA
1216 Lo Franco A NA
1216 Mangels L Sr NA
1217 Satin C T 798-2120
1217 Tallerico T NA
1218 Di Bonedetto St. 795-3671
1218 Spordello D NA
1218 Wildsoldt E NA
1219 O'Connell P V 659-7556
1220 Anlizzano C J NA
1220 D'Agostino J NA
1220 Tosa J 659-3552
1220 Tesa M 793-5170
1221 Pascali M 659-9846
1222 Angelus S NA
1222 Gianfino H 798-9232
1222 Lischewski D 963-1805
1223 Cavanagh V 659-6017
1223 Heggerty D A 798-2250
1224 Giannotini T J 656-6154
1224 Todisco Rose NA
1225 Schmidt Charles Jr 963-6117
1226 Maher Grace 792-1828
1226 Hoeing J 798-1740
1226 Mazzola R NA
1226 Pedrigons H NA
1227 Maddalon John F NA
1227 Temple G M NA
1228 Alonzano Philip NA
1228 Febgaug C NA
1228 Hatta Paulina Mrs 795-1447
1228 Hylinder J 792-1197
1228 Ur Ho Chung NA
1229 Arcain Benito 659-6848
1229 Beach H 795-5231
1229 Ferri J M 793-1550
1229 Franco J 795-6231
1229 Gonzalez J 792-1104
1229 Klein Gerald 792-2038
1229 Leiboy A NA
1230 McKeever Helen 792-4082
1230 Schnabl J F NA
1230 Tompkins James Lee 798-6775
1230 Viola G 795-5104
1230 Avitabile A A NA
1230 Avitabile Jos 659-0852
1230 Avitabile M 963-4521
1231 Haddey J NA
1231 Dato T A NA
1231 Kildoff W E NA
1231 Madsley W 659-6377
1231 Lim C NA
1231 Menge T NA
1231 Mondies Fred NA
1231 Streublinger F 659-7081
1231 Walker L NA
1232 Abomaro Morris NA
1232 Sheraighia A 659-4060
1232 Truglia A NA
1233 Dellegretta Wm 795-2961
1233 Da Murro Joe NA
1235 De Simone E 659-9133
1235 Wildolf Edmund V NA
1233 Mahoney John Mr 963-1903
1233 Mahey Wm T 798-1726
1233 Murray J E 963-1461
1235 O'Brien Winifred 963-0195
1235 Reis G E 656-8950
1231 Schoomaker J NA
1233 Van Der Berg F 792-5165
1237 Williams R 798-1212
963-0198

PARK AVE Contd

1234 Ferrigo R 656-2299
1234 Gimtelch Emil 656-2443
1234 Schoutin S I NA
1235 Belfiore Leo Mrs 653-7869
1235 Belfiore Leo Mrs 963-0124
1235 Cuppo A NA
1235 Hoyt L NA
1235 McInerney J F 792-1547
1236 McInerney Mary 792-1545
1236 Mercado M NA
1235 Mercado R NA
1232 O'Brien V 653-4952
1232 Padova M 798-6015
1235 Shannon C E 656-1162
1235 Tendney F 798-1495
1236 Rube C J NA
1236 Gagliardi P 656-2619
1236 Maspal F NA
1237 Willenberg C & J Inc 659-0813
1238 Clifton Al W NA
1238 Ljubich G 659-6605
1240 Clinan Geo Sr 659-7360
1240 Lo Preni T NA

13TH ST

1300 Burgos P NA
1300 Cortes A NA
1300 Hernandez N 653-0201
1300 Howe Emil 656-1399
1300 Merry's Tavern 798-9854
1300 Mercado J NA
1300 Rosario F NA
1300 Santiago A 795-2093
1303 Torres I NA
1301 Moscoline Thomas 798-2732
1302 Anastacio G NA
1302 Garofalo I NA
1302 Marquez A Miss NA
1302 Velazo R NA
1314 Blue Ponty Vision Inc 792-0600
1349 Spee Fin Co The 798-7457

14TH ST

-- Continental Baking Inc 659-7481
-- Hostess Cake Kitchen 659-7481
1409 Bridge Ster Sta 656-9856
1415 Bramell A J 792-2400
1415 Laboratories Inc 792-2400
1415 Nationwide Consumer Testing Institute Inc 792-2400
1415 Polymetric Products 792-5020
1415 United States Testing Co Inc research div 792-2400
1415 World Patent Development Corp 792-1612

15TH ST

1500 Evans C Co 659-4867
1500 Flaherty John 795-5046

PARK RD
(PO Bayonne 07002)
BAYONNE

32 Kpanca I NA

PARK ST
(PO Jersey City 07304)
JERSEY CITY
From Communipaw Ave s to Astor Pl, 2 sw of Grand

COMMUNIPAW AVE

2 Epps W NA
4 Foster B NA
8 Alberson H F 332-2131
10 Owens J Mrs NA
12 Gray Al Jr 432-7451
12 Hailey B NA
14 Alexander I NA
14 Boyce D NA
14 Burns E 451-0027
14 Canavan John 451-1692
14 Dillis M Mrs 434-0370
14 Dillis Thos 434-0370
14 Duncan Frank NA
14 Ehrens M 432-3157
14 Hamilton C NA
14 Hogan John F Sons contractors 333-4673
14 Jacobs John NA
14 Jennings J 433-0041
14 Johnson A 333-7374
14 Kelly M 451-1850
14 Wilkerson I 432-5219
14 Zimmerman H NA
17 Davison Elmer A 333-6401
17 N J Cemetery 333-6481
17 Scottish Rite Temple 333-6481
24 Corley D Miss NA
26 Jones R NA
26 Lewis A Jr NA
28 Viney A NA
28 Viney L C 332-2602
29 Hilton M NA
30 Sloqreb Arnold NA
31 Flannery M J 333-6134
32 Connell C J 434-7336
35 Early M 432-0428
35 Hamilton F 432-0429
36 Wilson H S 432-5002
38 Monk J NA
40 Brauner M Mrs 433-4116
40 Johnson W M 435-6120
41 Manley Patrick J 433-2747
41 Schiraldo H NA
42 Stewart J R 432-4252
43 Bixley E 451-9436
44 Hyde Janet Mrs NA

PRESCOTT ST

45 Myers J 435-6560
46 Hossle Paulette NA

PARK ST Contd

47 Watson J
45 Wallace K
49 Kelly E
50 Jackson H
51 Maye T
52 Ryan V C
53 Hines I
54 Gravely J Chas
55 Perrot Robert
57 Embree F
58 Carter M
59 Jackson Dorothy
60 Meeks J
61 Robinson D
62 Hoey J T
52 Miley R
64 Baled M
64 Dise L
64 Giltenan E Mrs
64 Graham R
64 Greene Ruben
64 Halligan H J
64 Hoard C
64 Humphrey Mabel
64 Murray D
64 Myers Thos A
64 Smith V D
64 Villanueva R

PARKSIDE LN
(PO Bayonne 07002)
BAYONNE
From W 16th st s to W 18th, 1 w of J F Kennedy Blvd

16TH ST

1 Kilduff Mary
2 Candillery John A
3 Byrne John J
4 Alyanak B
5 Bell Geo
6 La Concha L
7 Fedenicko S
8 DeBerg E
9 Hrybicki E Mrs
10 Klimpl D
11 Hermeid P F
11A Tassell M Mrs
11A Shlkowking E
12 Guanvel E A Mrs
14 Sparling F
15 Medlowsky A J Jr
15 Szaiwek A
16 Herman M
17 Schaedling G J
18 Rosenid V T
19 Krall W
20 Rivnamo B
21 Burbeale S
22 Pond Jos
23 Malewski Jean Mrs
24 Shedro Sam
25 Podmans W
26 Goldweber F R Mrs
22 Schuler Heinrich
23 Petiz H
27 Giancola Harry
30 Payne Wm H
31 Sedlak C
32 Monahan J F
33 Adashko H
34 Laban Geo
35 Zunno J A
36 Roehr O W
37 Brown Mildred Mrs
38 Rappaport M
39 Mattson A
40 Mitchell P
41 Smith T J
42 Sweeney T J
43 Morley W J
45 Krystewicz Sophie
46 Hrywnak John
47 Schlesinger S
48 Koster Robt A
49 Cerico A Mrs
50 Warnicki L S
51 Cassino S Mrs
52 Downey Wm J Jr
53 Fedis M
54 Peder Saul
55 Unigo B
56 Shapiro Max
57 Leibman Ann
58 Ronson S
59 Robinowitz Gary
60 Stockmeter A J
61 Tegano J J
62 Gainer N

PARKVIEW TER
(PO Bayonne 07002)
BAYONNE
From W 26th st s to W 28th, Avenue A

26TH ST

10 Jubb H
11 Sandlin M
12 Blejan John T
13 Scudder J
14 Fox Sapati D
15 Chiusa H
16 Levy Lawrence
17 Fishman Arthur
17 Cundo Jos
18 Lipinsky Jack
19 Nitoli F G

PARKVIEW TER Contd

20 Cohen A 437-4062
20 Cohen Sid 437-0380
21 Cohen I NA
21 Mellon Mildred NA
22 Sapis M 437-0146
23 Resnick Victor 437-0541
23 Sparkl C H 339-8858
25 Resnick A 437-0020
25 Demick M NA
26 Davis O NA
27 Shadian Herman 436-6316
28 Berlan Saul 437-0350
29 Sandler L A 436-3841
30 Saposnick Jacob 436-1755
31 Heck Marcia 436-7568
31 Appelbaum D D 339-7304
35 Pedulsky J P 436-2497
34 Le Bas A 339-8180
34 Le Bus Pete 339-7683
35 Baumgarten L 437-0324
37 Pattendrik Wm 437-0256

PARNELL PL
(PO Jersey City 07305)
JERSEY CITY
From Mcadoo Ave ne to Garner Ave, 1 sw of Bergen Ave

MC ADOO AVE

3 Beedley J NA
5 Catanzaro A P NA
3 Druase F 433-1091
3 Zychkiewicz Diane NA
3 Zychkiewicz S NA
9 Volk A 435-0241
10 Cogolan B 6 332-8206
12 McGowan T NA
13 Gaul Mabel Mrs 433-1456
14 Kempsky C 451-2075
14 Hans M 435-9526
16 Redmond J T 332-0137
17 Moriarty C I 432-3393
18 Morganelli Susan J NA
18 Bavolo Louis Jr NA
19 Carzan L 434-0401

PASSAIC AVE
(PO Jersey City 07307)
JERSEY CITY
From Sparks av to Congress, 1 w of Central Ave

SOUTH ST

8 McGrath J 795-1456
22 Acaue A NA
23 Ariel C NA
23 Chamberlin A Miss NA
22 Grzeskowski Thos 798-1767
23 Hess Walter NA
27 Verdolagis P M 798-3103
39 Mendelsohn J L NA
42 Kelse J NA
42 Knapp W Mrs 795-1554
48 Paul Chas R 659-6617

PATERSON AVE
(PO Hoboken 07030)
HOBOKEN
From 900 blk Newark Ave nw to Jersey City Boro Line

CONGRESS ST
CHRISTIE HWY

4 Sport Center 659-0777
6 Lehrman Jerome NA
6 Dielman M Mrs 798-9477
6 Felschel M NA
8 Fodlenbarge F NA
9 Klenche's Vere Sea 659-0561
14 Dundagues L 798-1663

JACKSON ST

35 Da Prato F Co stationery 659-1996
35 Schlatzkat H P 798-6078
51 Arthur's Auto Laundry 798-7029
55 Schlensford P 963-3475
57 Birchill W NA
59 Still T Mrs 659-2530
59 McKindy H 659-3238
61 Romanelli Auto & Boat Sales 659-0294
62 Burch W 792-5037
65 Butler J NA
65 Butler L Mrs 659-0561

HARRISON ST

104 Byrnes Motor Express 963-6620
113 Regional Import & Export Co Inc 659-3414
115 Regional Import & Export Trucking 798-8712
-- Adams Gene Refrigerated Trucking Service 659-0006

PATERSON AVE
(PO Jersey City 07307)
JERSEY CITY

1ST ST

55 Pauman F 798-0439
80 Zies I NA
111 Simone Michael NA

PATERSON PLANK RD
(PO Jersey City 07307)
JERSEY CITY
From Hoboken City Limits nw & n to Union City City Limits

UNION CITY LINE

-- Impair Crate Cycle
Blessed City of Gaslen
State Brick Face Co 798-3215
30 Rochberg Fld NA

HOBO CITY LINE

100 Clasis Materials Handling Equipment 656-2410
100 H L H Wheeling Inc 656-2414
252 Condo Mfg Co 653-0685
289 Lor-D Co 653-4568

CONGRESS ST

298 Jessal Nishad 792-4923
298 Sansepleuro J 963-0520
296 Rosenaud E 792-4175
296 Waxenesa Wm F 792-2567
298 Walsh J A 653-3930
298 Matthews Geo 798-5850
298 Veith J NA
296 Veith R 792-8273
300 Martin J 659-1019
300 Meyer G 653-1559
300 Schindler R E NA
302 Gabriele Jos 798-6578
302 Martin J A 659-5604
302 Zollinski C A 795-1406
310 Chapelle Thos NA
310 Dorr Samuel NA
310 Napolitano Sam NA
312 Dinardo JD NA
312 Farrell T NA
314 Clark J Mrs 659-7659
314 Crawford P 963-2434
314 Spadaverchia J 659-2643
320 Ferndon's Italian Food Company Inc 653-8728
324 Trotte A 798-1565
324 Trotta E Mrs 656-4241
328 Cancellino A NA
328 Grecis H Miss NA
328 Martin M Mrs NA
330 Acerbone B Mrs NA
334 Amato Jos 659-3110
334 Mirtello M T 798-1261
334 Munroe C Mrs 798-1781
334 McHenry Mary NA
336 Cooke A 792-0482
346 Cooke Ronald C 653-6363
350 Kaleidoscope 653-1540
350 Menge C Mrs 798-4697
350 Stetch M 659-0407
352 Krueger R 798-8348
356 Dabo I 659-5377
384 Dagosto A 798-5501
384 Al's Pass Service 653-9609
384 Al's Pass Service 656-4290

CENTRAL AVE

518 Lipiano F 659-0554
518 Do Cicco Alfredo 659-1237
520 Tanin J NA
530 Israe E 798-5103
520 Colonni Luis 795-4158

PATERSON ST
(PO Jersey City 07307)
JERSEY CITY
From Gates Ave ne, 1 w of Garfield Avenue

CENTRAL AVE

8 Dassie C Mrs NA
6 Forall Geo Jr 963-6159
5 Hurt E NA
8 Hatch A NA
5 Murphy F NA
10 Century Riveting Co 653-2070
12 Harkerfield Y 798-3057
12 Buchbloz H 653-6152
12 Mann D NA
12 Walter H T 798-2545
13 Robinson B 653-5080
14 Bortek P 792-1490
14 Doherty M 798-6508
14 Hillick Raymond NA
14 Pulkoski L M 792-1859
14 Tuhlemzik J J 659-4354
15 Falcone C 798-3480
16 Hoffman Anna NA
16 Scott George 795-0451
16A Freed J glazing 790-1099
16A Freer Jos 655-2107
17 Adornetto Leslie 963-3229
17 D'Attilio R 798-4160
17 Bruno A T 963-3203
18 Rosemeer F J 656-0986
19 Fress Wm 798-7873
19 Gascco E I 798-8047
20 Sloan T NA
21 Gallagher Thos NA
23 Colopert Jos J 653-4516
24 Murphy Edw 798-1392
24 Wim R 659-6314
27 Fiorilli L 795-2198
29 Baddy J L NA
27 Ulcardi J 963-7303
31 Donato M 798-1176
31 Donato R NA
31 Moser Michael 798-7690
33 Mulder F 798-6721
34 De Generoe T 798-1654
34 Keaveney I 795-5830
35 Reeille J NA
38 Rusolo Jos 795-5125
36 Cassy Wm L NA
36 Danials G V NA
37 Irving A NA

PATERSON ST Contd

37 Welle Walter H 798-1200
37A Lundergan P NA
37A Mangans Jos 795-2199

PASSAIC AVE

39 Lund J J 798-1232
39 Minonia H 792-5850
40 Closso M V NA
40 Buhl Edw 435-3653
41 Buckley J F 798-4454
41 Chatman G Mrs NA
41 Hackett M E 653-7834
41 Rieket J 795-0169
41 Liebelo Mary Mrs 659-3607
41 Smith A 792-6839
42 Murphy J J 963-6866
42 Murphy J T NA
43 Harford A 653-0761
43 Kirley M NA
44 Callery J M 792-1171
44 El Banna B 659-3133
45 Rales S NA
46 Boudignon A NA
46 Reidt Mary Mrs 798-4496
46 Marisk S Mrs NA
46 Schlenk John K NA
48 Sheridan Wm J NA
49 Galvin J NA
49 Wolfe A M 798-1603
52 McNamara John 659-2136
55 Siena E L 659-1224

SUMMIT AVE

54 Von Miest E H NA
56 Dalmer Robt F 659-4830
55 Spambach M 659-6170
56 Kruster M Mrs 795-0920
58 Lore Anna Mrs NA
60 Madtel T A 798-3665
60 Tiedman Wm NA
61 Sieboldt R NA
62 Hejl E K 798-9107
62 Seward T J NA
64 Falmont Vincent 798-0245
64 Borowkowski H M NA
65 Bensch K NA
65 Johnson P NA
65 Nichols Robert C III 795-3418
66 Sommerville H NA
67 Yob Nathaniel 656-2006
68 Murphy D 798-0591
68 McCarthy Gerard 795-0499
70 Genti A 654-3793
74 Gerdedig J G NA
74 Pocio D A 656-6160
75 Lutheran Parochial School of Hudson Cnty 659-6920
76 Crowe R V 656-3041
76 Greenwald R NA
78 Quigley C 653-2594
76 Sarvey J 963-1620

FIFTH AVE

78 Dehn R 795-0719
79 La Rinse J NA
75 Ferry M Mrs 653-6940
78 Burge M NA
79 Welgarth F Mrs 653-4504
79 Molloy Thos NA
70 Sullivan C NA
80 Attrey J Miss NA
80 Bastin M NA
80 Dalfonso Regis NA
80 Martinez Ricardo NA
56 Kolowendal L NA
81 Leichlinge D M 795-2492
81 Von Alm W J 963-4160
82 Sutton N I 798-0920
85 Zabelleio R Mrs 665-3058
86 Benimper O D 659-7307
86 McBurley Jas 656-7696
87 Baid Florence Mrs 659-0506
88 Leuchlin J 653-3081
88 Weleik E 653-6134
88 Smith M Mrs NA
89 Lodge R C 963-4957
90 Bald Wm Jr 795-4452
90 Steinman Herman Jr 659-7425
92 Elbert S NA
92 Smirnow E Mrs NA
93 Spenck A 656-7678
94 Ruskand C NA
95 Wills S J 963-0664
96 Blodgett Frank J 795-1510
97 Doesler J NA
97 Spellmeyer W H 659-2590
98 Krol Edward NA
98 Myers Philip H 710-1625
101 Dendelerak Chas 659-2399
101 Dendelerak E Mrs NA
102 Short W 798-4724
103 Kuane Herman 659-7590
104 Chervecio F NA
104 Weaninsen Geo S 653-6209
104 O'Cenure Edw R NA
104 Pan F M NA
105 Craus R NA
105 De Paolo A NA
105 Bernstein D 659-3577
106 Tarrie G NA
106 Flanders E Mrs 653-8733
107 Cancell John 656-7185
107 Damato M P NA
110 Canelo J NA
110 Swenson M NA
111 De Aandi Jos 659-4072
113 Infante L 795-3045
113 Varner H E 650-0329
115 Kork Edw 659-6243
117 Halsed F NA
119 Nepper Michael NA
119 Weber A NA
121 Wimbawall J 795-0622

PAULMIER PL
(PO Jersey City 07302)
JERSEY CITY

MONTGOMERY ST

1 Reuters Geo 1215 obs 435-4066
1 Northern Valley Pharmaceutical Inc 435-4066
2 Oath C NA
4 Fabermey D 435-0094
5 De Jesus Melendo NA
6 Wojciechowski H 435-0145
7 Morales E NA
7 Quinones Herberto NA
8 Valler R NA
8 Ross Jose NA

PAVONIA AVE
(PO Jersey City 07302)
JERSEY CITY
From North River w to beyond Dickinson, then from Newark Ave ne 5 w to Kennedy Blvd

TUBBS AVE

-- Express Handage Corp 798-7171
29 Mid-Hudson Wine Inc 653-7980
-- K & C Service 659-8589
-- Whited Paint Co Inc 798-1600

ERIE R R
KELSO ST

100 Lindgmeier Industries 653-1300

PROVOST ST

130 R R Iniyas & C Dalil 798-8676
131 United News Trans Inc 798-3658
132 Benda Edw confectionery 659-9315
132 Cackowski R NA
137 Liby Leasing Inc 659-2391
140 Renno's Barber Shop 798-9040
141 Jakewicz H NA
142 Burdel Charles NA
142 Brachholl Lap R 653-8311
144 Lobewicz M NA
144 Gomez Gerald 798-4597
144 Marquama Takeshi NA
149 Wasilewski C NA
149 Steeled I F NA
149 Peter V NA
149 Vere I Mac NA
149 Zaragoza Enrique NA
150 Chase's NY & NJ Lines Company 656-1925
156 Pineyold J NA
156 New Pavonia Beauty 653-6142
156 Tamanigusdo C 792-6726
156 Kaneko M NA
178 Tanbo S NA
158 Ullam E NA

HENDERSON ST
GROVE ST

196 Kloch A G NA
195 Laundry-All 795-1083
196 Mymorcki F NA
196 Therese I NA
199 Scale Warehouse Co 653-5110
200 Alexandrewicz W J NA
200 Gardstein W NA
200 Martinez NA
200 Dubek F Mrs 656-8461
200 Di Teolo John NA
200 Rodriguez C NA
200 Rodriguez F Mrs Mrs 656-9905
200 Sullivan Thos Mrs NA
201 Vargas Eleodoro 798-6144
201 Iwelloski Paul 795-7976
201 Gandolfo R 795-2406
201 Hipal Rosario 656-1279
201 Reble A NA
201 Rusboski J A 798-4973
201 Vitprakis N J 656-0151
202 Aysila C 659-1256
202 Delvolle E 659-0315
202 Zachowski S C 963-6612
203 Orbon Lieverno NA
203 Dubecki John NA
203 Orden Anna M 656-8343
203 Morales J 798-4734
203 Prenintercki S 656-6147
202 Reche F E 656-6931
203 Stanlowicz P NA
205 Smith H NA
205 Bransvich S 656-7414
205 Coelleki C Mrs 798-1047
205 Neal Richard 656-5451
205 King H 798-9403
205 Taylor H Mrs NA
207 Pfest Anthony NA
207 Reyes F NA
207 Stawchuk M Mrs 653-1489
209 Del Jes 798-6283
209 Koroch W 653-1154
209 Kinlock R 653-1842
211 Charlowski L NA
211 Costello F NA
211 Harbowchuk S NA
211 Prokopchik H NA
213 Pacewski E 798-1398
215 Avila D 798-4490
215 Lopez George NA
217 Brucla J NA
219 Adams Clinford 653-5216
219 Brewer R Jr 653-3779
219 Kiewan Jos 653-6491
219 Ryan J Mrs 653-5491
221 Bintiecki A A 653-1680
221 Kollar Jos 795-1756
221 Saczynski C 653-7459
223 Baye Barry NA
225 Rodriguez V M NA
225 National Cleaners 798-5403
225 National Wholesale Shirt Laundry 798-5403

PAVONIA AVE Contd

ERIE ST

-- Boffo T & Sons 656-7466
231 Jersey City Free Pub Library Pavonia Br 435-6262

HAMILTON PL W

280 Sweeney Maude H Mrs 653-6135
281 Crosta John J 656-0968
281 Nowakloff C M 795-6405
282 Walrod D T 798-9734
283 Chernicki Jos A 656-5445
285 Myndel M 659-3724
284 Di Keefe A NA
284 Tinley J 656-6912
285 Rachel L Mrs NA
285 Wilner B 798-2348
286 Leonard J NA
287 Kenny G F Mrs 653-8562
288 Genober J Miss 653-0527
289 Pollumbert Leonard Frr 795-6221
291 Cullilla J 656-7369

COLE ST

291 Donahue M NA
293 Kendra Edw 656-3007
293 Franzier William NA
295 Gerhardt S 659-1659
296 Hepersten M 653-3720
291 Cassel J S 792-4550
293 Aprile Louis NA
294 Sciarra C A Miss 963-3557
294 Wisniewski B Miss 656-6088
295 Janowycki A 798-1533
295 Yachonda W D 653-2190
297 Walecsalech I 798-4734
296 Tytus Anna Mrs 657-3267
296 Jacobs W 653-0495
296 Levine S 653-0562
297 Pazarelli S 795-0894
297 Pedriguez J NA
297 Vega J NA
299 Field Albert 798-6210
305 Pavonia Wine Inc 798-0244
309 Production Metals Inc 798-0900
309 Jackson A 792-1425
309 Tallarico Constantino NA
309 Clifton & Roy 798-0251
309 Clifton W NA
309 Jensen M NA
305 Central Baptist Church 656-2425
310 Dellier B NA
310 Giguerwood W 653-6241
310 Piotko Ins NA
312 Cooke Mary Mrs 656-5621
312 Malhan J L 963-9466
314 Cuilfoil E Miss NA
314 Sansevie T 656-3150
314 Jedensky Jos 798-9822
314 Laudert M H NA
315 Peres Hector NA
315 Thorne M NA
315 White Isaias V 659-1355
316 Radriguez M NA
317 Fodie E 792-3447
317 Balzarino Joseph 798-0649
317 Sheridan J M 963-0459
318 O'Keefe C 659-3715
318 Schroder R NA
319 Dolan Genevieve Mrs NA
319 Rivera M 792-8938
320 Inmatski S F NA
321 Albredown W 963-4319
321 Dowell M J 653-7725

NEWKIRK ST

323 Wallace J J 798-2195
323 Brown A 798-0255
325 Whitley F NA
329 Coppinger C Mrs 795-3788
329 Critelli W NA
329 Mason A 653-0047
330 Beni Helena 656-4579
330 Brady J NA
330 Stone J P 795-0309
330 Bigewald L Mrs 653-5381
330 Presse Thomas 653-3126
331 Maschiel M NA
331 Freunler J J NA
332 Maltman Wm W 798-2311
332 Fepenia O NA
333 Pecanin D J 795-1791
333 Roberts J A NA
333 Giordano W J 963-4567
334 Scullan A C 659-0496
334 Pembern A Mrs NA
334 Seufert James 659-0439
334 Traversie C J NA
335 Chudov P 659-0932
335 Jablonski M 798-4609
336 Minardowski F NA
335 Zablocki John NA
336 Opaluch G NA
336 Weiss A 792-6539
337 Hutchins B NA
337 Saja Cito A NA
337 Pilsoney S 659-4971
338 Brown W NA
340 Camp S NA
340 D'Elisa N 659-7412
340 Alageer F 795-1987
340 Sapo D NA
340 Stanice Augusto NA
341 Carlo J NA
341 Mathone C NA
341 Nowakowski Chas NA
341 Chrobisio D J 659-0076
341 Kramer & J 656-0256
341 Kuiken T NA
342 Allamano M NA
342 Talanquelie B Mrs NA
343 Resnik A P NA
343 Cardinale J 792-0289
343 Coda L 795-5910

J F KENNEDY BLVD 07306

JERSEY CITY

[illegible]

J F KENNEDY BLVD 07307 Contd

JERSEY CITY

[illegible]

J F KENNEDY BLVD 07307 Contd

JERSEY CITY

[illegible]

J F KENNEDY BLVD 07307 Contd

JERSEY CITY

[illegible]

J F KENNEDY BLVD 07307 Contd

JERSEY CITY

[illegible]

BUSINESS LISTING ☐ CHANGE OF ADDRESS + NEW LISTING

J F KENNEDY BLVD 07307 Contd

JERSEY CITY

[illegible]

JACKSON ST

(PO Hoboken 07030)

HOBOKEN

From Paterson Ave and Th 11th St. 1 w of Hudson St

Tract 192 (1-132 B) $4
Tract 192 (206-298 E) $1
Tract 191 (201-299 O) $1
Tract 190 (300-426 B) $1
Tract 190 (300-698 E) $1
Tract 189 (501-699 O) $2
Tract 189 (600-698 E) $2

[illegible]

JACKSON ST 07030 Contd

HOBOKEN

[illegible]

JACKSON ST 07030 Contd

HOBOKEN

[illegible]

JACKSON ST 07030 Contd

HOBOKEN

[illegible]

JAMES AVE

(PO Jersey City 07304)

JERSEY CITY

From Howell St no. 1 e of Charlotte Ave

Tract 17 (1-120 B) $1
Tract 17 (68-92 E) $1
Tract 3.01 (131-150 B) $3

[illegible]

JEFFERSON AVE

(PO Jersey City 07306)

JERSEY CITY

From Palisade Ave ow to Sussex Ave, 2 no. of Beacon Ave

Tract 14 (1-43 O) $2
Tract 15 (2-44 E) $4
Tract 14 (45-75 O) $2
Tract 11 (46-80 E) $4
Tract 11 (81-122 B) $4

[illegible]

BUSINESS LISTING ☐ CHANGE OF ADDRESS + NEW LISTING

J F KENNEDY BLVD 07307 Contd
JERSEY CITY

J F KENNEDY BLVD 07307 Contd
JERSEY CITY

J F KENNEDY BLVD 07307 Contd
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J F KENNEDY BLVD 07307 Contd
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JERSEY CITY

BUSINESS LISTING ☐ CHANGE OF ADDRESS + NEW LISTING

J F KENNEDY BLVD 07307 Contd
JERSEY CITY

JACKSON AVE
(Jersey City)

JACKSON ST
(PO Hoboken 07030)

JACKSON ST 07030 Contd
HOBOKEN

JACKSON ST 07030 Contd
HOBOKEN

JACKSON ST 07030 Contd
HOBOKEN

JAMES AVE
(PO Jersey City 07306)
JERSEY CITY

JEFFERSON AVE
(PO Jersey City 07306)
JERSEY CITY

JEFFERSON AVE 07306 Contd
JERSEY CITY

BUSINESS LISTING ☐ CHANGE OF ADDRESS + NEW LISTING

J F KENNEDY BLVD Contd
JERSEY CITY

3348 BUILDING

3354 APARTMENTS

MANHATTAN AVE

GRIFFITH ST

3386 APARTMENTS

3406 APARTMENTS

3444 APARTMENTS

CHARLES ST

NELSON AVE

JEFFERSON ST

THORNE ST

CONGRESS ST

6495 APARTMENTS

3504 APARTMENTS

SOUTH ST

3513 APARTMENTS

PATERSON ST

3600 APARTMENTS

NORTH ST

HOWARD ST

POPLAR ST

3658 APARTMENTS

GRACE ST

LEONARD ST

J F KENNEDY BLVD Contd
JERSEY CITY

3587 APARTMENTS

UNION CITY LINE

3719 APARTMENTS

JACKSON AVE (Jersey City)
See Martin Luther King Jr Dr (Jersey City)

JACKSON ST
(PO Hoboken 07030)

HOBOKEN

From Paterson Ave ne to 15th St, 1 w of Monroe St

NEWARK AVE

OBSERVER HWY

PATERSON AVE

JACKSON ST Contd
HOBOKEN

1ST ST

127 APARTMENTS

2ND ST

221 APARTMENTS

JACKSON ST Contd
HOBOKEN

221 APARTMENTS Contd

3RD ST

310 APARTMENTS

4TH ST

320 APARTMENTS

JACKSON ST Contd
HOBOKEN

320 APARTMENTS Contd

327 APARTMENTS

330 APARTMENTS

4TH ST

415 APARTMENTS

5TH ST

JACKSON ST Contd
HOBOKEN

7TH ST

JAMES AVE
(PO Jersey City 07306)

JERSEY CITY

From Howell St ne, 1 w of Charlotte Ave

HOWELL ST

ST PAULS AVE

JAMID COURT APARTMENTS
See 2520 J F Kennedy Blvd (Jersey City)

JEFFERSON AVE
(PO Jersey City 07306)

JERSEY CITY

From Palisade Ave ne to Summit Ave, 2 ne of Bowers Ave

PALISADE AVE

J F KENNEDY BLVD Contd

JERSEY CITY

J F KENNEDY BLVD Contd

JERSEY CITY

J F KENNEDY BLVD Contd

JERSEY CITY

J F KENNEDY BLVD Contd

JERSEY CITY

J F KENNEDY BLVD Contd

JERSEY CITY

JACKSON AVE (Jersey City)

See Martin Luther King Jr Dr (Jersey City)

JACKSON ST

(PO Hoboken 07030)

HOBOKEN

JACKSON ST Contd

HOBOKEN

JACKSON ST Contd

HOBOKEN

JACKSON ST Contd

HOBOKEN

JAMES AVE

(PO Jersey City 07306)

JERSEY CITY

JAMID COURT APARTMENTS

See 2620 J F Kennedy Blvd (Jersey City)

JEFFERSON AVE

(PO Jersey City 07306)

JERSEY CITY

JEFFERSON AVE Contd

JERSEY CITY

JEFFERSON AVE Contd

JERSEY CITY

JEFFERSON ST

(PO Hoboken 07030)

HOBOKEN

HUTTON ST Contd

HUTTON ST Contd

IRVING ST Contd

IRVING ST Contd

ISABELLA AVE Contd

INDUSTRIAL DR
(PO Jersey City 07305)
JERSEY CITY

HUGHAM ST
(PO Bayonne 07002)
BAYONNE

IORIO CT
(PO Jersey City 07305)
JERSEY CITY

IRVING ST
(PO Jersey City 07307)
JERSEY CITY

ISABELLA AVE
(PO Bayonne 07002)
BAYONNE

ISLAND VIEW CT
(PO Bayonne 07002)
BAYONNE

IVY PL
(PO Jersey City 07304)
JERSEY CITY

JACKSON AVE (Jersey City)

JACKSON ST
(PO Hoboken 07030)
HOBOKEN

ISLAND VIEW ST Contd

JACKSON ST Contd

JACKSON ST Contd

JACKSON ST Contd

JEFFERSON AVE Contd

JEFFERSON AVE
(PO Jersey City 07305)
JERSEY CITY

JAMES AVE
(PO Jersey City 07306)
JERSEY CITY

JANIS COURT APTS

JACKSON AVE Contd
72 DeeBite Clnr *333-5774
73 Rice B *NA
73 Glover F 435-0242
75 Real William *451-5241
75 Bellows Ian B 434-4344
75 ½ Good Shepherd Ch of Christ 333-0377
75 ½ Hobby S Henry NA
76 Hopkins Mary NA
VAN NOSTRAND AVE
77 Bouldin's Barber Shp 332-0736
78 Brown C 333-9093
80 Pittsinger B 332-3018
80 Pinkins James 435-4390
80 Tennison W NA
80 Jackson C 432-6465
80 Scott Ollie B NA
80 Gay L NA
80 McKinney B NA
80 Glass Gay *434-5360
80 Moore James *453-8538
80 Pace's Restaurant Ctr 434-9214
80 Rhodes D NA
80 Thomas Malcolm NA
83 Moore J 434-7310
85 Holland Clan 432-3465
85 Holland W II NA
85 Griffin J *NA
85 Johnson B *NA
85 Lemon B NA
85 Brook C V Mrs 432-1195
85 Sessions F 333-4380
85 Greenfield M 435-7938
85 Carroll E *NA
86 Pisa M 332-1449
86 Robinson B *NA
89 Pass H 435-8518
91 Anderson A *NA
91 Cook E NA
91 Prosmoroski N Mrs NA
91 Austerman J Frank 333-2477
91 Pepper S 451-3797
92 Del Piano Jos A atty 434-5481
ARMSTRONG AVE
93 Berry Mickey Bkpr 332-7906
93 Jones Ronnie NA
95 Rabe Wm 333-9172
95 White Lillie Mrs 434-3542
95 White Flora Chris *432-5748
95 Gregg R Dr *432-5249
95 McKee E Mrs NA
95 Brown A F NA
95 Austin L NA
101 Gray E NA
102 Gray J *451-4903
103 Red Carpet Lounge 333-9336
103 Flowers M NA
104 Marshall & Overfield Variety Shp 434-9063
105 Broadway Harold 432-1525
105 Greene F E NA
106 Thurston Peter & Wellington Co 433-2313
108 Viera S 432-2151
108 Mary's Candy Str 432-0900
110 Gull Ms Of Army & Navy Sporting Goods 333-6980
110 G Army & Navy Str *453-6506
110 D Sporting Goods 333-6049
110 Wellfind & Kohn Inc 431-6069
112 Jewel Radio & TV Co 434-9740
113 Navy Supermarket 434-3866
114 Gaines E *332-4390
WOODLAWN AVE
115 Commercial Trust Co of NJ Jackson Av Ofc 333-2900
115 Pesin Wm P Drgs 332-0417
116 Fidelity Brd Corp ofc 434-1562
117 Master Stamp Co Inc 333-1662
118 Vitaphone Mfg Corp 333-1665
118 Cottage Gro & Meats *433-1752
120 Joe's Bar Bldg 333-9252
121 Alexander Burma 336-0670
124 Cheveley J D NA
124 Cooper M NA
125 Saladin Billiards 333-9719
126 Maxwell's Tavern 332-5568
129 Soller Prodcts 332-5764
133 Wyvetta's Florist & Gift Shp 433-2697
135 Wyvetta's Florist & Gift Shp 333-9770
FULTON AVE
136 Rosy Carnes Tvrn 434-9065
136 Rosy Korner Tvrn 434-9850
137 Deal J NA
137 Scott W NA
137 Walker Mary 433-4414
137 Walker Mary 433-4765
138 Friendly Parlor Studio *434-5885
139 Specialist Vacations *451-3351
141 Geale Twy Ste 451-5646
141 John's Bty Shr 434-8346
141 Diaz D NA
143 Brown Lee 333-6319
143 Cherry H 451-1516
145 One Hour Martinizing Cleaners 434-9065
149 Falcon Pliles Sd 453-1183
150 Williams Ann *NA
DWIGHT ST
152 Green Room Restrnt 333-9626
152 Williams T NA
153 Apex Shop 432-6484
153 Herman E *NA
153 Mershon B Mrs 432-6647
155 Gen Credit NA
156 Buchanan J 432-5488
156A Clarke Bros Mont & Cousins 333-7125

JACKSON AVE Contd
156A Jones R 434-8122
157 Moffit's House of Style 333-9319
157 Middle House of Style *432-5184
157 Robinson S NA
159 Brinton Ronald 451-4025
159 Walters Marie *451-4306
160 Girardine Theo NA
160 Jackson Fsh Shp 434-7177
160 Fer Lead Shp 434-7178
160 Seville S 451-9510
161 McCants L *NA
162 Ellis Carl Rev 434-4790
163 Leger Mary Mrs NA
163 Ewbert M *NA
165 Fulton Lqr Str 434-6109
165 Vinshore A Jr 433-8207
166 McCants W NA
KINGMAN ST
167 Tucker Lounge *NA
171 Atkins E *432-4451
171 Bentley A NA
171 Berkeley Mary Mrs NA
171 Reviere D Mrs NA
171 Tolan D *NA
171 Rice J C *NA
172 Spivey C NA
171 Warren L 451-1040
171 Grant Jos 432-9595
173 Rouse E S NA
173 Massiano Henry 332-7032
173 Massiano Henry Pub Telephone 434-9524
174 Alexander Jos NA
174 Jackson A Mrs NA
175 Clayton J NA
176 C & W Food Supermkt 435-5566
177 Bailey S Rev 435-5311
177 Goodines E *NA
177 Mike C F NA
177 Modern Floor Covering Co Inc 333-4567
179 La France Foods 451-0910
180 Green F *NA
180 Nelson D NA
181 God Time Holiness *332-5856
181 Thomas D *NA
183 Little Joe's Tvrn 434-9136
183 Galliard Lmds Inc *434-2490
185 Jersey Dry Sewer Cleaned *434-1074
183 Sheraton J *NA
187 Robel's Home & House Furnishings 435-4687
189 St Anthony's Spiritual Center *451-3047
WEGMAN PKWY
195 Anderson D *451-6538
195 Ed's Boutique Shp *435-9251
197 Gallor Ussher NA
195 Chinn J *332-6051
197 Hine Fred *434-3513
197 Foster Paul NA
199 Blandling E Mrs *451-7827
199 Trenton's Mkt 432-3644
199 Turner E NA
201 Gyre Wh Beauty 434-0257
201 McKinney C *433-3455
202 Jersey Cty Beer & Yorktown Co 433-1204
203 Graefin Shirley 433-1072
203 Cavallaro's Chalet Inc 432-1249
203 Freedmen Hill Sebring 432-1648
203 Charlotte Louise Sweets 432-4337
205 Thomas A 332-7410
206 Seele Frank Jr NA
206 Strout G NA
207 Harper Lucille 451-4545
207 Harper Robt Jr 451-4643
208 Smith C 435-8605
210 Alexander D *NA
210 Bowan J 451-2454
210 Soul Brothers Inc 434-9487
RUSSELL AVE
211 Fraser L *NA
212 Clark W NA
213 Fowler R Mrs NA
215 Turner Pearline 432-8722
217 Vinson C NA
219 Crowley L 431-3517
219 Maylon C NA
219 Vanholt F delcatsn 333-1732
221 De-Rite Clnr *434-7177
225 Bailey W Jr NA
225 Mason A *NA
225 Vanity Fair Bty Ctr *435-9317
227 McInerney W E atty 434-1191
231 Marshall V NA
BAYVIEW AVE
235 Baby Lovers' Haberdashery 451-4305
235 Bateman P 451-0027
239 Hell F B 435-7894
235 Little R C NA
235 Little R C Inc 433-1790
237 Melvin Marne *NA
237 Paytan Palace Bty Shr 434-9209
237 Wooten K NA
239 Dancer's Chapel Inc Agency *434-3045
239 Harrison B NA
239 Barnard's Funeral Advisors 434-3241
239 Moore Magnis NA
239 Rice E Mrs NA
241 Brown K NA
241 Walker Ogo NA
245 Azure Crystal Lodge Harlan Tabernacle Grand Chapter NA
245 Savedlend Ch of the Living & True God 433-0725

JACKSON AVE Contd
247 Shaft Boutique 432-5677
249 Williams Ent 434-6002
250 Moore's Game Str *433-3120
WILKINSON AVE
253 Carden & Neal Bbr 434-4690
254 Maralla's Meat Mkt 434-1975
256 Benjamin D NA
256 English J NA
256 Caleshad A atty 433-0534
257 Snowfallen M Mrs *434-4308
255 Brady P *NA
251 Lowrie Enterprises *432-3040
259 Delong W 332-3018
259 Smith Mrs 435-4980
255 Warren J *435-7047
261 Colman L 335-1760
261 McNeil Ethe 451-5970
261 Olsen A Mrs NA
261 Pryor W NA
261 Reid T NA
261 Stacey's Pizzeria & Luncheonette 432-7867
261 Tilton Frances NA
263 Jackson Dorothy NA
263 Gallant C *NA
263 Jones Sandra *NA
261 Tyler Minnie Jr NA
263 Walker Las NA
264 Anderson C NA
264 Solo L 332-2852
265 Fitzchiefs Reliable Hats Inc 451-2968
265 MDL Cat Shp 433-2190
266 Alexander's Delicatessen & Grocer Comp 451-7190
266 Alexander's Delicatessen & Grocer Corp Ofc 333-2403
267 Carson Samuel A 332-3124
267 Shaggy Coco 333-9536
BOSTWICK AVE
268 Lucky Spot 451-4077
268 Teddy Spot Inc Clnr & Launderette 333-4430
269 Shaggy's Modern Beauty Sln 333-9232
270 Conner Henry NA
270 Jones M Mrs 433-2128
270 Oswald Anner NA
272 Patterson J *NA
273 Lewis H dentist 333-4347
275 Royal Decorators 333-6347
275 Royal Decorators 332-9403
275 Royal Novelty Str 333-6347
276 Armstrong C NA
276A Di Ester Flim Coverings *332-0184
276 Leading Male & Female Shp 432-6362
276 Sickles Eugenia Mrs 332-1874
276 Williams J NA
277 Johnson T *NA
278 Hearns Stephens 434-0020
278 Lester H NA
279 Teber B *NA
281 Harmon Custom Tlrd 332-9745
281 Martin M Mrs NA
281 McBride C *451-8817
281 Mr Steve *451-3027
282 Shabazz Complex 432-7060
282 Shabazz Restr & Take Out 434-3600
283 Gulfstam Tables Rev 435-5159
283 Nobley J 332-6999
MYRTLE AVE
284 Tayley L *NA
284 Johnson Leroy Rev 434-3246
285 Abrams Bernard Insp 435-0360
286 Davis L NA
286 Roberts O NA
286 Almon B *NA
288 Noel J NA
289 Smith Dry Clnr 432-0855
290 Gold Ray Drugs 433-0548
290 Richardson B L NA
290 Robinson B NA
291 Bellamy Sadie NA
291 Williams C Mrs NA
292 Dennis Sylvia *432-4443
293 Holmes I NA
294 Corey Gwen NA
294 Cita & F 332-4179
294 Williams Celeste 435-7637
295 Jersey City Free Pub Library Community Br 435-8262
296 Anderson D NA
295 Jones L NA
297 Muhammad's Mosque #21 Inc NA
296 Elks of Jersey Lodge #22 435-6615
298 Walker C 435-4075
298 Williams Rosa NA
299 Kirkland Dinse *NA
GRANT AVE
300 Gray Diner Co 332-9124
301 World Textile & Fabric Design 333-9373
302 Angelo E J 434-9091
302 Thomas M NA
303 Jackson Dental Inc 435-2441
303 Cromwell Willie 433-1783
305 Jones L NA
307 Busy Hosiery Shp 435-1087
307 L & L Dietrich 333-9184
307 L & L Record One Stop 431-9900
307 Pidgeon M NA
307 Sibley A NA
308 Mackin L Mrs NA
308 Manhattan Sh NA
310 Salomon Harry F *433-2574

JACKSON AVE Contd
303 Heroche Furs & French Cleaners Inc 434-3929
309 Lockett H Mrs NA
311 Carr M NA
314 Sylvanus Shoe 434-8418
318 Smoothie Song & Loan Assn Greenville 653-1137
320 Green Color Supermkt 434-9648
CLAREMONT AVE
321 Broadway Flea 451-5990
321 Nails Unlimited *333-5648
325 Weiss C NA
327 Bush S *NA
325 Mayfair Furniture Co 333-3515
325 Mayfair Furn Co Inc 333-4312
329 Kleinman A M Dr opt 432-6146
329 Lelsdom Albert Dr opt 333-7022
329 Pittman N 451-4750
329 Youmans O NA
331 Bennett L NA
331 Menlove Roy L 435-7616
331 Mehren Dorothy 453-8615
333 S & H Bar Inn 451-7457
333 Stephenson's Ins 335-1475
333 D L A Dental House 333-4036
335 Warren L NA
335 Reading C TV Serv 435-4646
335 Claude A TV Serv 435-4696
335 Two Boys TV Serv 435-4090
335 Weiss T NA
336 Reliable Furn & Appl Co Inc ofc 435-5067
337 One Hour Martinizing Cleaners 333-9681
339 Hudson B 435-9606
341 Colombo Tyre Inc 434-5978
342 Robbie's Men's Clothing 333-9267
ORIENT AVE
344 Shakers Footwear 451-1524
349 B & B Bay Service 333-9251
346 Jackson Av Model Car *451-2277
354 Mulberry Fish Mkt 451-4558
355 Cohen A 333-5590
357 Dixon C Mrs NA
357 Dinnis India NA
357 Larry's Shoe Serv 434-4240
357 Simpson B 432-9384
355 Henry J T *432-6464
355 Hi-Fi Ctr Jewelry Shp 332-9324
355 Jenkins Davis NA
356 Lawrence N 451-6101
358 Hanna R NA
359 Brown T NA
359 Judge S NA
KEARNEY AVE
360 Lest Tell Laundromat 434-9664
360 McMillen C *NA
360 Allengenen L NA
363 Singleton A 432-0701
364 Deborah's Meat Mkt *433-1204
364 Pepper C 432-4652
364 Simmons E NA
365 Jenkins F Mrs NA
367 Delfield's Dept Str 434-4062
369 Hamilton A 451-2009
368 Mayes B 332-0577
368 Forrest Jas N NA
369 ½ Cole S NA
370 Crooks E *NA
370 Shepley T NA
371 Johnson J 435-1310
371 Ginns Bertie Mrs 434-7169
375 Hardy L 451-2645
375 Hatzer A *435-4897
FOX AVE
378 Farmingdale Supermkt 332-9654
379 Williams Lowell Mrs NA
381 Anthony S 435-6020
381 Colbeck I 432-5279
381 Gray T NA
381 Kelly D NA
381 S & A Tvrn 434-0473
381 Sampson J NA
382 Biggs Wm NA
383 Jackson Hdw 435-5905
383 Johnson W 435-5605
384 McGill H NA
384 The Name of The Game Cocktail Lounge 432-1942
391 St Matthews Bpts Ch 432-4073
392 Property Mgt of NJ 332-9080
393 Catherine's Bty Ch 435-5351
396 Reyes T 432-0504
396 Burrus R NA
396 Turner Mamie Rev 435-4412
396 Turner Milton Rev 435-4412
JACKSON AVE
403 Taylor C NA
408 Wright Mildred Mrs 435-6878
VIRGINIA AVE
410 Ann's Luncheonette 332-0739
410 Clagget A *435-1817
410 Jenkins I 451-2103
411 Thornwell Realty Co Incorporated 434-5560
411 Thornwell Trvl Agcy 434-4040
411 Thornton Wm J Jr 434-5560
412 Sum-O-Wash 434-9494
415 Thomas C 432-0671
418 Snoop's Gft Ctr 333-9374
418 Taylor Hattie Mrs NA
416 Worthy I *NA
419 Love Marion 435-8912
419 Richards L NA
419 Tiger Superride 333-5553
420 Reddick Amber 332-2716
420 Reed W *332-0936
422 Mason B 432-0734
422 Robert's Lores 333-6545

JACKSON AVE Contd
425 Black Willie
425 Thornton W J atty
426 Brown Rena
426 Conklin J
426 McDonald J
426 Hidden D
426 Jenkins E
428 Prince Bsdsts
428 Jenkins E Hg
430 Al's Barber Shp
430 Al's Bicker
430 Al's Flare
[illegible] ST
431 Baltazar
451 Pasqual's Upholstery
451 Copeland V
452 NAACP
453 Hicks C
450 Woodard C
440 Brothers Fred
441 A & Sr Supermkt
442 Gray L
443 Barnett C
445 Dixon J
446 Soiby Wm
447 Community Savings Bank
[illegible] ST
451 Covington Wm
453 Davenport Ins
455 Man-Yan
457 Brown Ruth
457 Hodge E
465 Eagle E
467 ½ Reader F
467 Campbell Edith
469 Hoover E
471 Cantral French Cl Dye Wks
[illegible] ST
473 Jackson M
473 Jones M
473 Mickey's Care
473 Bertrand J
475 Bellamy J
477 Page Edna
477 Price Mary
479 Jackson Willie
483 Jersey City Redevelopment Agcy
483 Jersey City Redevelopment Agcy
489 Billy Ulmer Co
ATLANTIC ST
493 Jackson Ave Corp
495 Kortekamp W
497 Richmond Dan
497 Richmond D delcatsn
499 Campbell I
499 Thigpen D A DDS
499 Winter Phyllis
499 Wilson Beauty Pub Telephone
501 Atlantic Coiling & Incorporated
501 Contractors Mkt Jersey City
501 Richardson's Company
501 Jackson Mary Mrs
503 McBride L
503A Irving Willie L Mrs
503 ½ Pilgrim M
505 Albright Cattle Mrs
507 Parham Danny
507 Albert A
507 Jackson L
507 Jones M
509 [illegible]
511 Jackson Ave Committee
513 Cross Michael
519 Gilliam Mattie Mrs
519 Clover B
519 Green R I
519 Hodges Jas
520 Simmons F Rev
521 Smith Will
522 Embry J
524 Park E
525 Warren Edith
526 Lowery J
529 French C
530 Grant L
531 Keyes E
532 Finley S
533 Gray W
535 Johnson G Mrs
535 ½ Les & Ralph's Lounge
536 Brown E
537 Kiwis F
537A Williams
538 Richardson L
539 Jackson Theodore
541 Southwell J
541 Green J
542 Smith T
543 Sono Cleaners
544 Cherokee J
545 George's Chinese Barbecue
546 Jackson
547 [illegible]

JACKSON AVE Contd
CLINTON AVE
569 Freedom Palace Co cosmetics 333-8682
571 Motel City of J City 432-2037
577 Glazer D caterer 433-3739
577 Earney G *NA
579 Graves H 432-4463
579 Johnson E Mrs 332-7388

JACKSON ST
(PO Hoboken 07030)
HOBOKEN
Frm Newark Ave nw to 11th St, 1 w of Monroe St
NEWARK AVE
26 P & M Sea-Corp Jackson 795-0660
28 Kennedy Eugene *420-1950
30 Collins Internl Corp 795-5116
34 E J S Industries 659-8112
35 Mason Trdng Co 420-1406
36 Mainer Swift Lite Corporation 420-1400
38 NY NJ Distribn Whse 420-1500
35 NY & NJ Distribn Whse Incorporated 420-1500
38 Winchester & NJ Transportation Co Inc 420-1200
OBSERVER HWY
44 Devorra L J *656-6465
44 Riley C NA
44 Rolon J NA
PATERSON AVE
71 Stone Patricia 659-1514
73 Saint Joseph Bchl 792-2020
84 Delle Herman Inc 659-6548
87 Moore F NA
91 Cummercent Clnr 659-4017
91 Miller Marlene NA
97 Cepedio Wm NA
1ST ST
100 Raven H NA
105 Rodriguez R & Ros 963-6133
107 McClain J S NA
107 Tallent R NA
115 Agresta J 659-7631
119 Coelho Salvatore 795-1745
115 Joe's Tobacco Station 653-2227
117 Dave's Auto Repair 656-9696
121 Capezzi A NA
121 Delaney M NA
120 Pecorello Jos 795-7617
120 Sasso V NA
122 Falconer R *NA
122 Ortiz M *NA
121 Messer J 656-3119
123 Zellaris C 792-9141
123 Byrne J NA
124 Calabrese J C NA
124 Marullo J 653-2496
125 Mancuso F NA
125 Pavie L 792-2943
126 J M Food Center 653-2516
125 Castello E 420-1707
127 Gentry E F *NA
127 Mosquella F 656-1749
127 Sliva A Mrs NA
127 Vogel C NA
130 Clasco A 798-7410
130 DeCarlo J 659-7794
130 Marinello J 659-8057
131 Echevarria H NA
131 Wallingford John NA
137 Wyszkowski R *NA
2ND ST
206 Jackson Super Mkt *420-1830
206 Petrosino M Mrs NA
212 Dominick's Auto Repair *792-9065
212 Vega A NA
214 Strovanchok Nick 656-7460
216 Patton F NA
216 Mid Hudson Collision 653-6900
221 APARTMENTS
Arderstag F NA
Ries A NA
Balboni H 795-4146
Biegel E 792-3856
Brenner E 795-4554
Borges D 653-5360
Burke J 792-4621
Colon Noah 792-0874
Calabria W J NA
Campbello G 653-0174
Cancian A NA
Cardner F Mrs 798-4516
Clearie M 795-4117
Conde R *795-9694
Coutz Michael 659-5668
Carey Margaret Mrs 963-7695
Degerick M Mrs 656-8723
De Nave Jos NA
Dobson J NA
Doyle A NA
Dubashmed H 659-6524
Dubow J 961-6439
Fellusiang J *NA
Fitzgerald J 795-5249
Fanels T NA
Garafalo Helen Mrs *NA
Gerloch H Mrs *NA
Giacoy F 798-4091
Gibbs John W 659-1965
Gradson G 792-4392
Grimes C 798-4764
Grimes A NA
Gromage G *963-0447
Hart J
Huxley M
Hy M Mrs

JACKSON ST Contd
221 APTS contd
Hall L NA
Hendrickson P 963-4791
Hoover A Mrs NA
Housing Auth of the City of Hoboken Security & Caretaker's Office 795-1855
Hitch Edith Mrs 659-5324
Jegeon Anne Mrs 795-5960
Jogetski R 798-0371
Kennedy V J *659-5175
Keck E *NA
Leino M NA
Lamendola J 792-1379
Linde M Mrs *NA
Lino C 795-4511
Lotz V Mrs NA
Loftus Dorothy NA
Lloyd F 792-1808
Maloney S
Manning L NA
Manfredonia A NA
Manning R Sr 795-6046
Marinelli Jos 656-2974
Mast Gerth 792-4126
Mason Rosario Mrs NA
McAfee C 963-7698
Meier J 656-7741
Meiner J 656-2486
Miller Julia 653-2513
Minerva S 795-3633
Moldero A Mrs 792-0722
Moll Lena NA
Mulher A NA
Musella D 795-5035
Nasro J NA
Natal A NA
Nemitch Mick NA
Oquendo M Mrs 963-2271
Owens F 798-1171
Pagliaro D *NA
Palord C NA
Parrillo A 420-1032
Pascale J J NA
Patone L 795-4535
Peck T 963-0357
Perillo A 653-5612
Phillips Reuben NA
Pollastro V 659-4028
Pratt M Mrs 656-5567
Rain M *798-7361
Rave W 659-7685
Reinhardt R NA
Rivera M 795-4373
Robert M *NA
Rochester L NA
Rosario M NA
Rossi R Mrs 653-4022
Sachwitch M NA
Salel D 659-6556
Schwartz E 659-4287
Segala A C NA
Senior Community Svc Center 656-0050
Shields Mary Mrs 656-5685
Sommerfield J 795-4197
Smith E 798-6293
Smith John NA
Staelin H Mrs 659-6226
Terwilliger Wm 795-2947
Tinsley A 795-4201
Van Den Berg E *792-6934
Webster F 798-3706
Welling M R Mrs 656-2195
White M NA
Yamarino R 798-4171
Zeigler A NA
Zipp F Mrs 659-4071
222 Falls S NA
232 Morano P 792-3494
301 Feedland of Hoboken *420-1610
3RD ST
310 APARTMENTS
Alcantara M NA
Anderson Willie Jr 659-3353
Arthur R *NA
Bates James NA
Belcastro Julia Mrs 659-3034
Crawford A *798-3466
Cuttle A NA
Flynn Marion Mrs NA
Grooves A NA
Harrington M NA
Kimbrell C NA
Lassister R 798-4292
Loeffler M Mrs NA
Lorenzo F 656-6324
Mahon A *NA
McVey F Mrs NA
Mirabile J NA
Montalvo L *NA
Merin G NA
Mondesire Willie NA
Nash D NA
Perez J NA
Ponce L *792-5013
Rice D NA
Rivera Ramon NA
Rodriguez M NA
Rotella S NA
Santoriello T 659-1720
Vick L *798-4201
Wachter E NA
White M 792-4131
313 Lisa Cleo NA
315 Della Cuccia Co 963-0492
317 Conrado T *963-0555
317 Di Leo J 792-0703
320 APARTMENTS
Agosto D NA
Alvarez Gillian Mrs 656-2927
Angelina Ruth
Sandford J Mrs

JACKSON ST Contd
326 APTS contd
Burns A 795-1658
Butts B V NA
Borelli H NA
Betts R NA
Campbell J 798-3055
Castillo C NA
Cee Chee 798-3919
Cervantes P NA
Cano P *NA
Cent D NA
Cruz J *NA
De Meo E *963-4607
Fitzpatrick J 659-4679
Fridena C NA
Grillion R NA
Fragosa A *420-0771
Graham Leonard 659-4010
Hatvan W 792-2613
Johnson E B NA
Key W NA
Lacasse Rafael NA
Manfredi T *NA
Martinez M 795-1644
Nunez E T Mrs 963-2260
Orsis P NA
Ortiz R NA
Pantoja M *963-4763
Pellegrino B NA
Ramirez Sandra *NA
Ramos W NA
Ramirez A NA
Ramos S NA
Richard Frank W 963-1557
Rivera Catherine Mrs 792-1341
Rodriguez I NA
Romero J NA
Scalzo M NA
Serra M NA
Soto Z *963-4881
Underwood M NA
Vergara Thos 795-9212
327 APARTMENTS
Barnaldo L B NA
Bivona D NA
Calandrella C NA
Cahill Jos 659-4784
Marcucci R 659-7614
Mays Florence NA
Monroe J 792-3217
Mojaded A NA
Romano M 659-4113
Ross Anthony 659-3417
Smith P NA
Sobel Mary Mrs 798-5153
330 Argenti Emil NA
330 Bernardo Mildred NA
330 Brangilia F NA
330 Iglesias A *NA
330 Pinchi Dolta NA
330 Pebus J NA
330 Boyer Jos 656-2976
332 Decker J H NA
332 Grantoff R 656-3529
334 Rivera N 659-6604
4TH ST
407 Villa Romero 798-9861
409 Flaherty T M NA
409 Hoboken City Community Relations Div *659-2961
411 Romano A NA
411 Romano Irene Mrs 792-2887
413 Palmarozza A NA
415 Palmirotto F NA
413 Salerno S NA
413 De Cicco S Jr 795-9323
415 Marzona F 792-9414
415 Mancuso H NA
415 O'Connor H 963-4614
415 Sorrentino F *653-6978
415 Tesco R NA
415 Tonelli J NA
417 Forte A NA
417 Rackness C *NA
417 Von Ilten J NA
421 Thornton A NA
423 Cavalliere A *NA
5TH ST
501 Addeo C 798-8941
501 Accolese Joseph 659-7547
501 Boschi J NA
501 Jackson Mkt Co 659-7547
501 Bernardo Jack 792-1055
503 Creevey T F NA
505 Cala F 795-4318
505 Fraustino F 792-9151
508 Leonhardt F 792-2045
509 Anzalone Larry NA
501 Dyson B H NA
510 Figueroa F *792-1979
510 Gilyard M NA
510 Hernandez M *NA
510 Johnson M *659-1252
510 McInerney Saul *NA
514 Apicella A 653-6040
514 Laird A M NA
514 Vecchio A 659-6204
512 Cluter M *798-3465
513 De Jesus E NA
512 Riley A *NA
513 Rodriguez R *NA
513 Marquez H Mrs NA
513 Ruiz J J 659-2277
514 Colon C NA
514 Connor R L *963-2378
514 Tyler C NA
514 Mallory C NA
514 Lavieve I NA
514 Lopez J NA
515 Schmert Jo NA
516 Glaser M
518 Basine C Mrs

JACKSON ST Contd
518 High L NA
519 Lam Woo Jr NA
518 Miller L C NA
520 Beltin M NA
520 Carney A NA
520 Davis M *656-5720
520 Piatt J NA
522 Green L *NA
522 McKinney F NA
522 Norris T NA
522 Maxfield Ana NA
522 Birchwood E NA
523 Tong J 656-1934
523 Torres A NA
525 Caruso J NA
526 Grandi E NA
526 Paige A 659-2941
526 Perez G Sr NA
526 Williams Alfred NA
527 Cappitelli C 798-7498
527 Cuccia A J NA
527 Dupont T NA
528 Beattie B 795-6780
528 Henry L NA
528 Fennell F NA
528 Pascale C NA
528 Quagliano M M NA
528 Seidmann B 659-7095
530 Andrade Julia NA
530 Gonzalez J *963-5770
530 Ibarra S NA
530 Moretta Dominic A NA
530 Tropiano R 963-7622
530 Scripps A NA
531 Kull M *NA
532 Hernandez M NA
532 Joyce E *NA
532 Rodriguez M *NA
532 Santo J *NA
534 Bellon C NA
6TH ST
605 Fates R NA
619 Potter Schmidt & Grouch Incorporated 659-3217
620 Hoboken Auto Body Repr 795-1915
620 Tina C garage 795-1915
655 Parker S NA
7TH ST
601 Guarino C C Fuel Serv 659-7540

JAMES AVE
(PO Jersey City 07306)
JERSEY CITY
From Dewitt St ne, 1 w of Charlotte Avenue
VAN WINKLE AVE
15 S & F Graphics Inc 420-0870
15 Wattelson J S 653-6475
17 Petkovsky A 795-4040
17 Eaton C *963-1765
19 Kozlowski C NA
21 Zalewski T *NA
HOWELL ST
ST PAULS AVE
80 Tonnelle Ave Transport Inc 659-0324
120 Western Freight Sys Inc *659-0214

JEFFERSON AVE
(PO Jersey City 07306)
JERSEY CITY
From Palisade Ave nw to Summit Ave, 2 ne of Pearsall Ave
PALISADE AVE
1 APARTMENTS
Alegre E NA
Cardona H 656-1169
Chiuk M NA
Emery G NA
Gerovtz S K NA
Ireland F 656-3562
Lacasara J 798-6599
Mago Eliot NA
McCarthy H J 963-4975
Pablo S 792-6435
Parona Jane *NA
Pelvo Isidro NA
Renna J *NA
Reyes Jonathan *963-2301
Zaballero L *420-0322
Barcelo B NA
Sedlick Anthony NA
10 Romero Michael NA
10 Aron G NA
11 Carlino Patrick NA
11 Ewing J NA
11 Presto Robt NA
12 Waffner P NA
13 Connolly D *NA
13 Dillon A *NA
13 Kuang Wm *NA
13 Michnikowski W 795-6243
13 Pechattier J J 653-4509
14 Reynolds A M *NA
14 Scott Andrew J 653-2497
15 Ackerman W NA
15 Gale S NA
15 Kalden Z NA
15 Murphy J 653-4419
15 Stange R R Mrs 656-2913
15 Whitehead I NA
16 Cassidy J J 656-2611
16 Sawyer Jos A NA
17 Iuliano C 963-6508
17 Cunkel F *NA
17 Jannarulli Y NA
17 Lorenzo B *NA
17 Robbin M M NA
17 Taylor D NA

JEFFERSON AVE Contd
18 Dugan V NA
19 Hammond Margaret NA
20 Elmer H Mrs NA
20 Redriken E F *NA
20 Caliendo Wm NA
20 Delaney Edith NA
20 Spina Joseph *420-6053
21 Smith M NA
21 Vondellatia F M 798-3101
22 Abramson A NA
23 Bergmanschee L R NA
24 Agyaji Hanyab 792-1247
24 Nicholson M NA
24 Rivera C *NA
24 Tadeo S 795-1319
26 Coleman E NA
26 Goodman Jos *NA
26 Kimmons A 653-6209
26 Looney F Mrs 653-7824
26 Sharp Jack Mrs 656-0216
26 Stevenson Mary K 420-9207
27 Coughlin Catherine Mrs 963-0963
27 Vargas L *NA
28 Cutheart E NA
28 Glynn John 795-1514
28 Lapp F *NA
28 Powell J NA
29 Maselli J Mrs 653-0935
30 Orsala D NA
30 Harper Walter E 963-1559
30 Hawkins J NA
30 McBride Chas 963-6067
30 Mason D Mrs NA
30 Weinberg Edw NA
31 Gyarmati S 653-3445
33 Bennett G F 798-5239
35 Bennett W T NA
35 Bhadrasena C K 798-0725
36 Herlihy T 656-4111
35 Gian R 795-7170
35 Gorbal A 656-1150
35 Munro E Mrs 798-0145
36 Piro Vincent NA
39 ½ Plaff H NA
40 Byers A NA
40 Zayas M 795-9550
41 Director Grime NA
41 DJ Star Constr Inc 653-0506
41 Kornfeld M 798-3912
RANDOLPH AVE
47 Kacy L NA
47A Guidry J Jr 795-1797
46 Collins M J 656-4537
48 Flynn J 659-7032
49 Oliveira Jos 792-3726
49 ½ McGee E Mrs NA
50 Criffin John J NA
50 Bellow F NA
51 Hansen E C 659-9980
52 Jandas A *420-1684
52 Mizell J NA
52 Red Corner NA
55 Donovan Thos 653-6795
54 Coggeshall R Mrs 795-6167
54 Gumbs J 659-0103
55 Burns H E NA
55 Silver A M NA
56 Barbieri M 798-0956
56 Canzano S NA
57 La Candia J 798-6741
57 Leeman P *796-5249
57 Robertson Mary Mrs NA
58 Clancy D *NA
58 Larner Clar T NA
58A Molina R A NA
59 Grasso G NA
59 Gerber J NA
60 Kenny's Game Str 792-0447
60 La Mendea J 659-3176
61 Calcano S *653-6128
62 Amstor Jos 656-1883
62 Arzola M *NA
62 Bruno Frank NA
63 Medley E M 653-7036
63 Mcintosh Mary Mrs 963-5516
64 Therbonige D Y 798-7735
64 ½ Geary M 656-7676
64 ½ Pierce Peter *420-1549
65 Palmisano P M 653-2961
65A Mulvaney E Mrs 656-2263
65A Nielsinger E Mrs 656-2305
65A Piersamma A 795-2914
66 Siegler F NA
67 Lehne F 798-0946
67 Mathews R H NA
68 Light F Mrs NA
69 Loffredo R 963-2616
71 Alstern Co The jewelry boxes 795-3730
71 Leslie Laundry Processors Inc 656-7720
71 Schneider Albert 795-2770
71 Wilton Mdse Corp 798-0750
72 Chudelowski S 656-3237
72 Calandi C 795-3100
72 Miller C NA
72 Zavero G NA
74 Guy's Washer Serv 659-7340
OAKLAND AVE
87 Dechaltz W NA
87 Mastello A NA
90 Cioffolini F 653-8304
90 Pratapatel L 795-5747
91 Geh Alice 656-4169
91 Johnson M E NA
93 Friedenberg R C NA
93 Ruder J 656-3216
95 De Luca F 653-7395
95 Rebecchi S Mrs 653-0016
96 Raby Wm 653-1963
101 Dykstra M J NA

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JEFFERSON AVE
(PO Jersey City 07306)
JERSEY CITY

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HARRISON AVE 07304 Contd
JERSEY CITY

HARRISON AVE 07304 Contd
JERSEY CITY

HARRISON ST 07030 Contd
HOBOKEN

HAWTHORNE AVE 07306 Contd
JERSEY CITY

HENRY ST 07306 Contd
JERSEY CITY

HARRISON ST
(PO Hoboken 07030)
HOBOKEN
From Frederick Ave nw to 4th St, 1 nw of Jackson St
Tract 192 (57-129 D) $4
Tract 192 (60-99 E) $4
Tract 190 (200-599 B) $7

HARTLEY PL
(PO Bayonne 07002)
BAYONNE
From North St nw to Linden St, 1 nw of J F Kennedy Blvd
Tract 112 (1-99 B) $3

HAWTHORNE AVE
(PO Jersey City 07306)
JERSEY CITY
From Ship Ave sw, 2 nw of West Side Ave
Tract 27 (1-48 B) $4

HECKMAN DR
(PO Jersey City 07305)
JERSEY CITY
From Old Bergen Rd northwest
Tract 51 (1-9 B) $4

HEMLOCK ST
(PO Jersey City 07306)
JERSEY CITY
From Birch St southeast

HENDERSON ST
(PO Hoboken 07030)
HOBOKEN

HENDERSON ST
(PO Jersey City 07302)
JERSEY CITY
Tract 26 (319-445 B) $3
Tract 10.02 (446-555 B) Nr
Tract 15.01 (556-679 B) Nr

HENRY ST
(PO Jersey City 07306)
JERSEY CITY
From Wabash Ave sw to Baldwin Ave, 1 nw of Magnolia Ave
Tract 21 (1-90 B) $5

HERRICK CT 07002 Contd
BAYONNE

HIGH ST
(PO Jersey City 07306)
JERSEY CITY
From Summit Ave ne, 1 nw of Newark
Tract 32 (1-21 O) $5
Tract 21 (2-24 E) $5
Tract 21 (25-70 B) $5

HIGHLAND AVE
(PO Jersey City 07306)
JERSEY CITY
From Bergen Ave ne to West Side Ave, 1 nw of Communipaw Ave
Tract 29 (1-70 B) $5
Tract 20 (71-178 B) $5

HIGHLAND AVE 07306 Contd
JERSEY CITY

HIGHLAND AVE 07306 Contd
JERSEY CITY

HIGHLAND AVE 07306 Contd

HIGHWAY RD
(PO Jersey City 07305)
JERSEY CITY
From Fenster Ave ne, 3 nw to Stevens Avenue, 1 nw of Mowbray Avenue
Tract 59 (2-43 B) $1
Tract 59 (17-34 B) $1
Tract 60 (18-23 B) $1

HIGHWAY 1 (Jersey City)
See U S Hwy 1 (Jersey City)

HIGHWAY 169 (Bayonne)
See State Hwy 169 (Bayonne)

HIGHWAY 440 (Bayonne)
See State Hwy 440 (Bayonne)

HOBART AVE
(PO Bayonne 07002)
BAYONNE
From E 3rd St ne, 4 nw to Oak St, 3 nw of Broadway St
Tract 114 (1-198 B) $3

HOBART AVE 07002 Contd
BAYONNE

HOBOKEN AVE
(PO Jersey City 07305)
JERSEY CITY

GROVE ST 07302 Contd
JERSEY CITY

HAGUE ST 07307 Contd
JERSEY CITY

HAGUE ST 07307 Contd
JERSEY CITY

HALF MOON ISLE
(PO Jersey City 07305)
JERSEY CITY

HALLADAY ST
(PO Jersey City 07304)
JERSEY CITY

HALLADAY ST 07304 Contd
JERSEY CITY

HALLADAY ST 07304 Contd
JERSEY CITY

HALLECK AVE
(PO Jersey City)
JERSEY CITY

HAMILTON PLZ
(Jersey City)

HAMPTON COURT
(PO Jersey City)
JERSEY CITY

HANCOCK AVE
(PO Jersey City)
JERSEY CITY

HANCOCK AVE 07307 Contd
JERSEY CITY

HANCOCK AVE 07307 Contd
JERSEY CITY

HANCOCK AVE 07307 Contd
JERSEY CITY

HARMON ST
(PO Jersey City 07304)
Trace 43 (1-45 B) $1
Trace 43 (46-119 B) $2

HARRISON AVE
(PO Jersey City 07304)
JERSEY CITY

HARRISON AVE 07304 Contd
JERSEY CITY

HARBOR DR
(PO Jersey City 07306)
JERSEY CITY

HANCOCK AVE 07307 Contd

JERSEY CITY

HARMON ST 07304 Contd

JERSEY CITY

HARRISON AVE

(PO Jersey City 07304)

JERSEY CITY

From Communipaw Ave Nr to West Side Ave

Tract 43 (1-35 B) S2

Tract 41 02 (26-100 B) S1

Tract 41 01 (103-200 B) S3

HARBOR DR

(PO Jersey City 07305)

JERSEY CITY

HARMON ST

(PO Jersey City 07304)

JERSEY CITY

HARRISON AVE 07304 Contd

JERSEY CITY

HARRISON AVE 07304 Contd

JERSEY CITY

HARRISON AVE 07304 Contd

JERSEY CITY

HARRISON ST

(PO Hoboken 07030)

HOBOKEN

From Adelaide Ave Nr to 4th St, 1 nr of Jackson St

Tract 192 (1-199 O) S4

Tract 192 (201-399 B) S4

Tract 190 (200-399 B) S1

HARRISON ST 07030

HOBOKEN

HARTLEY PL

(PO Bayonne 07002)

BAYONNE

HAWTHORNE AVE

(PO Jersey City 07306)

JERSEY CITY

From Sip Ave Nr S Fork of West Side Ave

Tract 27 (1-45 B) S4

HECKMAN DR

(PO Jersey City 07305)

JERSEY CITY

From Old Bergen Rd Northwest

Tract 61 (1-2 B) S4

HECKMAN DR 07305 Contd

JERSEY CITY

HEMLOCK ST

(PO Jersey City 07306)

JERSEY CITY

HENDERSON ST

(PO Hoboken 07030)

HOBOKEN

HENDERSON ST

(PO Jersey City 07302)

JERSEY CITY

HENRY ST

(PO Jersey City 07306)

JERSEY CITY

From Wayne Ave Nr to Baldwin Ave, 1 nr of Magnolia Ave

Tract 21 (1-99 B) S5

HENRY ST 07306 Contd

JERSEY CITY

HERBERT PL

(PO Jersey City 07306)

JERSEY CITY

From Orange St to Newark Ave, 1 nr of Bergen Ave

Tract 19 (1-17 B) S1

HERRICK CT

(PO Bayonne 07002)

BAYONNE

HIGH ST

(PO Jersey City 07306)

JERSEY CITY

From Summit Ave Nr Hedge of Magnolia

Tract 22 (1-21 O) S3

Tract 21 (2-24 E) S5

Tract 21 (23-70 B) S5

HIGHLAND AVE

(PO Jersey City 07305)

JERSEY CITY

(Left page, partially visible: HAMPTON COURT TER Contd; HANCOCK AVE (PO Jersey City 07307); HANCOCK AVE Contd)

HANCOCK AVE Contd
JERSEY CITY

227	Ahmed K	217-0103	85
	228 APARTMENTS		
	Bergmann John V	795-5077	00
	Donahue R	792-3690	79
	Hayward M	795-5461	00
	Mangan Thomas W	792-4921	89
	Occupant	NA	89
	Occupant	NA	88
	Occupant	NA	88
	Occupant	NA	87
	Sipley E	+ 653-4880	91
	Turner R	□ 420-8189	91
	Walter D	653-3524	00
229	Occupant	NA	91
229	Occupant	NA	00
231	Reinhardt John	659-0361	80
232	Occupant	NA	87
232	Occupant	NA	80
233	Antonopoulos A	217-1622	99
233	Mitchell Sonia	+ 653-1325	91
234	Crawford Edward	792-5948	89
235	Estanez Thomas	+ 659-4118	91
235	Parisi Amorogio	795-1384	00
235	Vasquez E	+ 216-0258	91
236	Balboa David	+ 798-7457	91
236	Beatrice F	963-3158	00
236	#Central Business Machines Inc	653-3232	90
236	#Central Business Supply Co	653-3232	80
237	Diaz H	792-4337	89
237	Wallace R	+ 659-3845	91
238	Occupant	NA	90
238	Occupant	NA	00
239	Santomenico J	798-4709	90
240	Occupant	NA	91
240	Occupant	NA	91
241	Occupant	NA	89
241	Occupant	NA	00
242	Occupant	NA	91
242	Occupant	NA	91
243	Occupant	NA	79
243	Occupant	NA	00
244	Di Gino A Mrs	798-6280	78
244	Shaw B Jr	963-0896	00
245	Colecchia J	792-4030	81
245	Occupant	NA	89
246	Colgaro Ivan	963-4435	89
246	Hernandez J	653-6638	88
247	Occupant	NA	78
247	Wadly Peter	659-1177	60
248	McManus M	+ 656-5816	91
249	Lord Kevin	+ 963-6310	91
249	Majewski J	963-8074	83
249	Occupant	NA	91
250	Occupant	NA	90
251	Wawrzynski Jos	795-0098	80
252	Occupant	NA	79
252	Occupant	NA	00
253	Gardy Derek S	+ 963-1851	91
253	O'Brien W	□ 795-2509	91
253	Occupant	NA	80
254	Occupant	NA	90
255	Occupant	NA	00
255	Occupant	NA	60
256	Zanelli C	963-1514	80
256	Zanelli S M	217-9789	90
257	Cucchio F	+ 656-6568	91
257	Occupant	NA	90
257	Occupant	NA	00
258	DePalma C	836-4344	79
258	Occupant	NA	91
258	Stanton P M	798-2799	82
259	Rodriguez E B	798-3351	89
259	Zaki Alex	795-4049	87
260	Occupant	NA	01
261	Occupant	NA	00
262	Occupant	NA	50
262	Occupant	NA	80
263	Massa Michael	659-4424	88
263	Massa Michael	792-8495	89
263	Nicosa K	798-5486	89
263	Wagman M	798-5480	89
263	Wagman M	+ 798-2331	91
264	Occupant	NA	91
264	Occupant	NA	91
264	Occupant	NA	91
265	Occupant	NA	00
265	Powers Richard	+ 216-1527	91
266	Occupant	NA	78
267	Carpenito G R	656-6670	78
267	Occupant	NA	78
268	#Diamond Builders	+ 656-6413	91
268	Bussiani V	+ 217-4008	91
268	Occupant	NA	79
268	Occupant	NA	00
268	Wilson L	□ 217-4008	91
269	Occupant	NA	78
269	Occupant	NA	79
270	Occupant	NA	91
270	Occupant	NA	80
270	Occupant	NA	80
270	Rickets M	+ 659-4728	91
271	Fernandez R	795-9407	90
271	Tobias E	656-1050	88
272	Occupant	NA	58
272	Schiffen R	858-1978	88
272	Thompson G A	795-2646	00
	11-BUS 424-RES 39-NEW		

HARBOR DR
(PO Jersey City 07305)

JERSEY CITY

From Industrial Dr northwest

--	#Penn Industries Shop	435-1434	80
--	#United States Packing & Shipping Co	433-0103	89
104	#Agritech Product Int Inc	433-6005	86

HARBOR DR Contd
JERSEY CITY

104	#North East Container Service	333-1302	88
104	#RGA Accessories	432-2052	87
104	#Team Distributors	332-1161	87
104	#Thundolo Co	433-6005	89
104	#Your Choice Express	451-2414	88
105	#Air Dock Systems	+ 815-0433	91
106	#Dan-Dee Intl Ltd	332-7600	60
109	#Yolle Corporation	333-5050	89
120	#Ryder Dist Resources	435-5600	90
120	#U S P Truckway Inc	435-5600	90
120	#U S Packing & Shipping	435-5600	99
	14-BUS 0-RES 1-NEW		

HARBORSIDE TERMINAL BUILDING
See 34 Exchange Pl (Jersey City)

HARMON ST
(PO Jersey City 07304)

JERSEY CITY

From Garfield Ave nw to Crescent Ave, 1 ne of Bramhall Ave

	GARFIELD AVE		
14	Burton L	+ 432-1459	91
14	Occupant	NA	00
16	Evans Jas	432-1851	90
	RANDOLPH AVE		
30	#Mack & Wallis's Auto Repair	332-6491	85
31	Boyd R	333-6948	94
35	Occupant	NA	80
35	Occupant	NA	00
37	Occupant	NA	91
39	Muniz Sonia	+ 332-6511	91
41	Kearney J	435-0828	89
41	Occupant	NA	00
41	Occupant	NA	79
41	Occupant	NA	00
43	Occupant	NA	00
43	Occupant	NA	00
	ARLINGTON AVE		
59	Davis L D	451-2453	78
59	Lynn Cynthia	333-0789	80
59	Occupant	NA	89
71	Occupant	NA	00
71	Occupant	NA	00
73	Brown J	432-9639	83
73	Grant R E	433-5118	00
73	Occupant	NA	00
75	Occupant	NA	00
77	Ford S J	434-3731	90
79	Occupant	NA	00
81	Collson G	413-0412	89
81	Johnson J	332-5151	80
82	Occupant	NA	78
83	Occupant	NA	00
84	Occupant	NA	00
84	Occupant	NA	89
85	Holmes E	333-8140	80
85	Holmes F Max	435-7236	82
85	Rose Wilson	333-5711	90
88	Occupant	NA	00
89	Brown S D	333-5957	79
	90 APARTMENTS		
	Kennedy E	435-2929	58
	Occupant	NA	78
	Occupant	NA	00
	Occupant	NA	00
	Occupant	NA	00
	Occupant	NA	78
	Occupant	NA	80
	Occupant	NA	78
	Occupant	NA	00
91	Occupant	NA	00
93	Occupant	NA	00
94	Occupant	NA	00
94	Occupant	NA	00
95	Adams Edward	434-5634	78
96	Worden L	435-6146	60
97	Occupant	NA	00
98	Dixon William	432-3899	88
98	Occupant	NA	90
98	Occupant	NA	89
98	Occupant	NA	79
98	Occupant	NA	79
98	Occupant	NA	70
98	Sophia C Mrs	333-2602	61
98	Underwood Bernard	333-7671	80
99	Occupant	NA	86
99	Occupant	NA	98
99	Occupant	NA	00
101	Gourdine Frank	435-0028	00
102	Goodman M	433-3954	85
102	Occupant	NA	79
102	Occupant	NA	79
102	Occupant	NA	79
102	Royster Clinton	433-2794	85
102	Williams M	□ 435-7417	81
	1-BUS 70-RES 2-NEW		

HARRISON AVE
(PO Jersey City 07304)

JERSEY CITY

From Communipaw Ave nw to West Side Ave

	PARK ST		
2	#Jersey City Welfare	547-6063	87
	CRESCENT AVE		
50	Occupant	NA	90
50	Perez Jacinto	+ 451-6016	91
52	Occupant	NA	90

HARRISON AVE Contd
JERSEY CITY

52	Occupant	NA	00
52	Occupant	NA	00
54	Occupant	NA	89
56	Occupant	NA	00
75	Barker M MD	435-3100	89
75	Gable J G Jr MD	333-0024	89
75	Rayford Carl MD	333-2750	67
75	#Stefon W E DDS PA	432-0111	54
	MONTICELLO AVE		
77	O'Neal B	432-0567	83
77	Occupant	NA	89
78	#Bergen Battery Svc	434-8472	00
78	#Liberty Cycles	434-2453	87
89	Occupant	NA	00
83	Occupant	NA	80
89	Wilson L Mrs	333-7597	60
90	#Community Contrs	332-2242	80
93	#Community Door Bell & Intercom Service	332-2242	80
98	#Kline Scanlons	434-0455	81
98	#Kline's Auto Body	434-0465	81
98	#Rook Harry & Son Inc plumber	332-0328	60
100	Occupant	NA	87
100	Occupant	NA	80
104	#H S I S Express	434-0060	90
104	#HH I S Express	333-9034	83
104	#J C R Enterprises	434-0608	78
105	#Alabado Auto Sales	333-2595	90
111 A	Occupant	NA	79
111 A	Occupant	NA	80
112	Occupant	NA	90
115	#C & G Trucking Co	435-4800	88
116	Grant J	434-1103	87
118	Morse E	332-2118	00
118½	Alston K	432-4621	88
118½	Occupant	NA	80
118	Occupant	NA	86
120	Matthews D	451-0427	84
122	Occupant	NA	86
122½	Richardson L	432-8130	00
124	Ignatow Dan G	435-4792	08
124	Ignatow Dan G	435-6505	89
	BERGEN AVE		
	145 APARTMENTS		
	Ford K	333-3447	81
	Johnson C	+ 333-8196	91
	Raney H	333-0542	83
	Norris Deighton	+ 413-1923	91
	Occupant	NA	90
	Occupant	NA	78
	Occupant	NA	60
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	78
	Occupant	NA	78
	Thomas Y	+ 433-7585	91
149	Occupant	NA	00
149	Zalkowitz S	433-8020	00
151	Occupant	NA	91
151	Occupant	NA	91
152	Hanson F	333-8051	00
152	Occupant	NA	80
152	Occupant	NA	00
153	Murphy John	434-5465	00
153	#Murphy John T Ins	333-8559	81
153	#Sherry B Ins	333-8539	81
154	#Brown Memorial Ch Of A Living God	433-7521	84
155	Occupant	NA	00
157	Occupant	NA	89
157	Occupant	NA	00
158	Bryant J	332-6349	81
158	Occupant	NA	00
158	Occupant	NA	00
158	Occupant	NA	00
158	Ruiz Maria	333-8028	90
160	Bottner R	+ 332-6063	91
160	Occupant	NA	90
161	Pueblo Irene	432-6059	00
162	Daller J Roy	435-5795	85
164	Alzein Maher	+ 432-2108	91
164	McGreenthan Thos	432-5811	00
166	Occupant	NA	91
166	Occupant	NA	91
166	Occupant	NA	78
166	Occupant	NA	78
	168 APARTMENTS		
	Altidor P	+ 434-4781	91
	Alandt Joseph	□ 451-1946	91
	#Daen Electrical Contractors Inc	+ 432-1141	81
	Etnica M	432-3218	84
	Farag Y	□ 333-5553	91
	Laurencelas Jean	434-0615	80
	Occupant	NA	80
	Sodek R	434-3772	85
169	Marcus G	435-7004	83
169	West V	434-4780	00
170	Trabner Alfred	451-3454	00
171	Watkins L	434-4043	00
172	Occupant	NA	00
173	Adams Lynette Miss	433-3736	78
173	Adams S Mrs	433-3736	78
173	Harmon Jerry	433-3736	00
174	Robbins David D	432-1582	90
174	Robbins Malcolm J	435-6561	00
175	Bradby M M	432-7298	00
175	Occupant	NA	00
176	Green Thomas	+ 435-0987	91
176	Occupant	NA	80
176 A	Occupant	NA	80
177	Occupant	NA	80
178	Sorg F J	433-0005	82
179	Finn John	435-6253	00
179	Occupant	NA	89
180	Schneid Max	332-1974	00
180	#Schneid Max CLU	□ 796-1500	81
188	Black Louise	432-2748	78

HARRISON AVE Contd
JERSEY CITY

184	Occupant	NA	79
185	Occupant	NA	00
185	Occupant	NA	00
189	Martin B	435-1347	84
192	#Elsesir Mazhar MD	+ 333-6351	91
192	#Jersey City Breathing Center	+ 333-5363	91
	J F KENNEDY BLVD		
	203 APARTMENTS		
	Faustin D	432-8048	90
	Flynn J	451-7878	79
	Huertas S Jr	434-7135	89
	Meyers Ronald	+ 451-1657	91
	Occupant	NA	80
	Occupant	NA	00
	Occupant	NA	00
	Occupant	NA	00
	Sievers C	+ 332-2931	91
	Teton R	451-5947	80
	#Tien The	432-9283	87
209	George Fayez H	451-1764	00
209	George S	+ 434-3165	91
212	Golds Jerome A MD	451-4798	50
213	Occupant	NA	81
213	#Ugheni Ebo mason contractor	433-4304	00
215	Lehahan E	434-0250	81
217	Harris Walter J Jr	332-2012	90
219	Ferguson W J	435-3616	06
219	Occupant	NA	00
221	Clancy S	451-1950	85
221	Occupant	NA	88
222	Martin C	333-7567	80
222	Martin K	333-7598	88
223	Occupant	NA	87
223	Occupant	NA	00
225	Canoolo T	433-4067	90
226	Lynch Janet	451-1365	08
226	Occupant	NA	89
226	Occupant	NA	87
227	Occupant	NA	80
228	Fajardo J E	333-7121	81
229	Occupant	NA	78
231	#E & E Contractors	333-8014	80
232	Occupant	NA	88
233	Occupant	NA	88
233	Occupant	NA	80
235	Rohr Kirk	432-8317	87
236	Jackson Felicia	+ 332-2259	91
236	Matthews R	413-9509	90
236	Occupant	NA	91
237	Occupant	NA	88
239	Occupant	NA	88
239	Tang C	434-3128	86
240	Pignato Thos W	332-8189	00
240	#Pignato Thos W Co	433-0717	00
241	Friedman L J	435-1599	86
241	Wise T	435-1599	85
242	Cashin A D	433-4527	81
243	Pazello Lou	433-9620	00
244	Occupant	NA	78
247	Occupant	NA	00
248	Boland J	333-5261	00
249	Roemer A J Jr	333-5725	00
257	Occupant	NA	91
257	Occupant	NA	90
259	Occupant	NA	80
259	Occupant	NA	00
259	Williams Brenda	+ 333-1709	91
	260 APARTMENTS		
	Anderson D	433-4103	81
	Armstrong William	451-1058	89
	Carter L	433-2715	85
	Chiordi M	433-8302	90
	Crowe M	433-7531	00
	Delaney J R	433-0189	78
	#Engineered Matls Div of Hi-Purity	432-4141	00
	Gitter Alice J	432-4141	00
	Golubosz M	+ 432-2369	91
	Haggart T F	434-3796	00
	#Hi-Purity Material Inc	432-4141	00
	Holz M	333-0350	00
	Knapp Jerome M	433-4968	86
	La Brancha C	435-4042	87
	Lally T Sr	339-4098	00
	Leake Gregory	333-1274	83
	Mahoney T G	332-2345	00
	McGreen J D	332-3934	83
	McNeil F J	339-6134	00
	Monahan J A Mrs	434-4145	78
	Montinose F	+ 515-8590	91
	Morgan P	451-0368	90
	Murray Edw V	451-0891	00
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	79
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	78
	Occupant	NA	80
	Occupant	NA	78
	Occupant	NA	70
	Schroeder R	434-3703	79
	Solveson V	333-8154	80
261	Burrell Jos	451-6454	87
261	Occupant	NA	00
263	Occupant	NA	60
269	Occupant	NA	00
	270 PARC HARRISON CONDOMINIUM		
	Boylan Jos	451-7331	00
	Caulfield P	434-6684	00
	Davis T H Jr	332-0987	00
	Diaz Susana	451-5868	90
	Donahue F	333-3836	00
	Duffy Eugene J	434-7241	00
	Grimes K	451-7778	00
	Hawkins K	432-7900	00
	Horan William	435-3324	00

HARRISON AVE Contd
JERSEY CITY

270 PARC HARRISON CONDOMINIUM Contd

	#Laura Line & Tour Bus Services	860-9305	89
	Martin J D	435-6359	90
	McCormack Kevin	451-7908	80
	McCormack M	451-7908	80
	McLaughlin W	333-3621	81
	Merola V	332-0772	93
	Occupant	NA	91
	Occupant	NA	85
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	00
	Occupant	NA	00
	Occupant	NA	00
	Occupant	NA	79
	Occupant	NA	78
	Occupant	NA	00
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	78
	Occupant	NA	00
	Occupant	NA	00
	Occupant	NA	00
	Stark H	434-1294	00
	Triebe Edwyn	332-3243	00
	Tyndall J	□ 333-3979	91
	#Weingarten Realty	332-3800	89
271	Brown V J	333-5310	82
	275 APARTMENTS		
	Barhoumy Mahdy	435-8007	80
	Bascom Walter	451-6610	83
	Bayoumi Elsayed	434-7370	89
	Campanelli R	433-2597	89
	Chang I	435-3246	90
	Coley J	451-1583	80
	Dahling B	+ 432-1226	91
	Greene Elissa	434-4825	89
	Mobley L	332-8403	80
	Occupant	NA	79
	Occupant	NA	78
	Occupant	NA	79
	Occupant	NA	78
	Occupant	NA	79
	Occupant	NA	78
	Occupant	NA	79
	Occupant	NA	80
	Occupant	NA	79
	Occupant	NA	79
	Rivera J	+ 432-1506	91
	Shroeds J C	□ 433-3670	91
	Singer B	434-5432	78
	Tan J A	332-4226	90
	Torres Carlos	451-3626	93
	Viana K	432-3382	90
	Wyrott Jolanta	332-3315	90
	277 APARTMENTS		
	Boolang R	+ 435-8321	91
	Brathwaite Iantha	+ 435-2235	91
	Burke D	333-7194	90
	Foster Urval	432-4776	80
	Johnson E R	332-6938	83
	Maniell Wm	432-7305	00
	Occupant	NA	89
	Occupant	NA	89
	Occupant	NA	80
	Occupant	NA	78
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	79
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	70
	Occupant	NA	78
	Occupant	NA	80
	Occupant	NA	79
	Pentejo E O	451-0711	90
	Rivera J	434-2122	84
	Velasquez D	451-4566	85
280	Barry D	332-0522	95
280	Fisk John Dr	332-0902	89
280	Norqvist S	332-8992	89
280	Occupant	NA	91
	283 APARTMENTS		
	Abdelrahmal Mohamed	+ 451-4433	91
	Adesaedgt E	433-4210	88
	Aziz William	+ 309-8945	91
	Botros G	432-3424	89
	Markabadi Morsei	333-3106	80
	Occupant	NA	87
	Occupant	NA	87
	Occupant	NA	86
	Occupant	NA	86
	Occupant	NA	86
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	80
	Occupant	NA	80
	Sullivan R F	333-0626	81
	Weiss D	413-8389	90
	Yacoub Tamer	+ 435-3047	91
284	Lebrun J	333-0768	80
284	Occupant	NA	88
287	Ditzko M B	332-1880	00
287	Ditzko W J	332-1880	00
287	Occupant	NA	59
288	Meshal Madeha	□ 434-3398	91
289	Mendoza N	432-5248	78
289	Occupant	NA	78
291	Occupant	NA	80
	292 APARTMENTS		
	Miah A	434-7365	85
	O'Brien M	333-3836	00
	Occupant	NA	80
	Occupant	NA	88
	Occupant	NA	78

HAGUE ST Contd
JERSEY CITY

HAGUE ST Contd
JERSEY CITY

HALLADAY ST
(PO Jersey City 07304)
JERSEY CITY
From Coven Point Ave no to Carbon St, 1 no of Pacific Ave

HALLADAY ST Contd
JERSEY CITY

HAMPSHIRE HOUSE APARTMENTS
See 20 Tonnele Ave Jersey City

HAMPTON COURT TER
(PO Jersey City 07302)
JERSEY CITY

HANCOCK AVE
(PO Jersey City 07307)
JERSEY CITY
From Franklin St no to Paterson Plank Rd, 2 no of Webster Ave

HANCOCK AVE Contd
JERSEY CITY

HANCOCK AVE Contd

HANCOCK AVE Contd
JERSEY CITY

HANCOCK AVE Contd
JERSEY CITY

HARMON ST
JERSEY CITY

HARBOR DR
(PO Jersey City 07305)
JERSEY CITY

HARBORSIDE TERMINAL BUILDING
See 34 Exchange Pl Jersey City

HARMON ST
(PO Jersey City 07304)
JERSEY CITY
From Garfield Ave no to Crescent Ave, 1 no of Bramhall Ave

HARRISON AVE Contd
JERSEY CITY

HARRISON AVE
(PO Jersey City 07304)
JERSEY CITY
From Communipaw Ave no to West Side Ave

HARRISON AVE Contd
JERSEY CITY

HARRISON AVE Contd
JERSEY CITY

HARRISON AVE Contd

JERSEY CITY

371 APARTMENTS Contd

HARRISON ST Contd

HOBOKEN

HARRISON ST Contd

HOBOKEN

321 APARTMENTS Contd

HARTLEY PL

(PO Bayonne 07002)

BAYONNE

From North Side to Linden St, 1 Block E of Kennedy Blvd

NORTH ST

HAWTHORNE AVE

(PO Jersey City 07306)

JERSEY CITY

From Sip Ave sw, 2 nw of West Side Ave

HECKMAN DR

(PO Jersey City 07305)

JERSEY CITY

SW AVE

1-9 MOUNT CARMEL GUILD

MARION GARDEN APTS

HECKMAN DR Contd

JERSEY CITY

1-9 MOUNT CARMEL GUILD

MARION GARDEN APTS Contd

HECKMAN DR Contd

JERSEY CITY

1-9 MOUNT CARMEL GUILD

MARION GARDEN APTS Contd

HECKMAN DR Contd

JERSEY CITY

1-9 MOUNT CARMEL GUILD

MARION GARDEN APTS Contd

HENDERSON ST Contd

JERSEY CITY

270-80 GREGORY PARK APTS Contd

HENDERSON ST Contd

JERSEY CITY

270-80 GREGORY PARK APTS Contd

HENDERSON ST Contd

JERSEY CITY

270-80 GREGORY PARK APTS Contd

HENDERSON ST Contd

JERSEY CITY

HENDERSON ST

(PO Hoboken 07030)

HOBOKEN

HENDERSON ST

(PO Jersey City 07302)

JERSEY CITY

From Tidewater Basin n to Observer Highway

HENRY ST

(PO Jersey City 07306)

JERSEY CITY

From Waldo Ave nw to Baldwin Ave, 1 sw of Magnolia Ave

WALDO AVE

HANCOCK AVE Contd

HANCOCK AVE Contd

HARBOR DR
(PO Jersey City 07305)
JERSEY CITY

HARBORSIDE TERMINAL BLDG

HARMON ST
(PO Jersey City 07304)
JERSEY CITY

HARRISON AVE
(PO Jersey City 07304)
JERSEY CITY

HARRISON AVE Contd

HARRISON AVE Contd

HARRISON AVE Contd

HARRISON ST
(PO Hoboken 07030)
HOBOKEN

HARRISON ST Contd

HARRISON ST Contd

HARTLEY PL
(PO Bayonne 07002)
BAYONNE

HAWTHORNE AVE
(PO Jersey City 07306)
JERSEY CITY

HAWTHORNE AVE Contd

HECKMAN DR
(PO Jersey City 07305)
JERSEY CITY

HANCOCK AVE Contd

[illegible]

HANCOCK AVE Contd

[illegible]

APARTMENTS

[illegible]

CONGRESS ST

[illegible]

HANCOCK AVE Contd

[illegible]

HARBOR DR

(PO Jersey City 07305)

JERSEY CITY

[illegible]

HARMON ST

(PO Jersey City 07306)

JERSEY CITY

[illegible]

CARLTON AVE

[illegible]

HARRISON AVE

(PO Jersey City 07304)

JERSEY CITY

[illegible]

HARRISON AVE Contd

[illegible]

HARRISON AVE Contd

[illegible]

HARRISON AVE Contd

[illegible]

HARRISON ST

(PO Hoboken 07030)

HOBOKEN

[illegible]

HARRISON ST Contd

[illegible]

HARRISON ST Contd

[illegible]

HARTLEY PL

(PO Bayonne 07002)

BAYONNE

[illegible]

HAWTHORNE AVE

(PO Jersey City 07305)

JERSEY CITY

[illegible]

HECKMAN DR

(PO Jersey City 07305)

JERSEY CITY

[illegible]

HANCOCK AVE Contd

96 O'Hea R 656-6654
97 McLane J 656-8452
98 Phillip M NA
99 Marchello J 653-0775
100 Antek Russell 656-7932
101 Porto V 659-6955
102 Morris Paul 798-4571
103 McFadden J V NA
104 Stoler R NA
105 Gallagher R 653-5720
106 Griffin A NA
108 Wilbert H 792-6168
111 Kelly Ira 656-5161
114 Petranelli A 798-1167
[illegible]
118 Gallagher Richard J 963-7056
119 Russell F 653-7467

BOWERS ST

[illegible]
151 Reilly Walter 663-7713
152 Dyer E 659-4030
152 Ryan John 659-4077
156 Paszkowski S 795-6166
159 Lent H 963-1220
[illegible]
144 Craig J H 659-7344
146 Lindsay 656-1451
146 Lindsay Wm A 795-4930
147 Guerrero J M 656-1296
147 Lent R A 798-9234
[illegible]
156 Sanders W M 659-4722
[illegible]
179 Hatcher Wm 795-3863
178 Little M NA
179 Corsey S J NA
180 McDonald Evelyn Mrs 659-7349

HANCOCK AVE Contd

180 Mitchell T F 792-2938
180 Sirois A 795-1516

CONGRESS ST

[illegible]
225 Guerriere R 653-2315

HANCOCK AVE Contd

228 Sweeney W 653-3834
229 Hernandez Lawrence 963-8120
[illegible]
276 Dean W J NA

CONGRESS ST

[illegible]

HARBOR DR Contd

foot Port Jersey Seaboard Warehouse Corp 432-2040

HARMON ST

(PO Jersey City 07304)

JERSEY CITY

From Garfield Ave nw of Crescent Ave, 1 nw of Bayview Ave

GARFIELD AVE

14 Bellport J NA
15 Hattigh F NA
16 Evans Ira 432-1603

RANDOLPH AVE

[illegible]

ARLINGTON AVE

57 Dickerson Storage Whses 333-8734
[illegible]
101 Corcoran J NA
[illegible]

HARRISON AVE

(PO Jersey City 07304)

JERSEY CITY

From Communipaw Ave nw to West Side Ave

PARK ST

2 Delaney Peter NA
7 Jersey City Bd of Educ Administration Ofcs 433-5000
8 Jersey City Schools 433-6000
[illegible]

CRESCENT AVE

40 Walker H NA
50 Petriford C 433-3320
50 Pettiford H 433-5330
50 Williams T Miller NA
[illegible]

MONTICELLO AVE

77 O'Neal F 433-7564
77 Ray Graves NA
78 Bergen Pattery Ave 434-8472
86 Camillo Auto Body Inc 432-8017
98 Rutherford's Auto Body Repairs NA
98 Williams L 333-5327
99 Metro Fuel Oil Co Inc 433-2600

HARBOR DR

(PO Jersey City 07302)

JERSEY CITY

foot Gordon Grant Co 435-9345
foot Lighting Electric Co 435-1374
100 Continental Aggregate Corporation 435-5977
100 U S C O Ser Corp Div of Universal 432-4222
101 Port Jersey Corp of Inc development 333-4900

HARRISON AVE Contd

159 Gaus G NA
[illegible]
189 Carollton R 434-4534
192 Sharp J NA

HARRISON AVE Contd

HUDSON BLVD

203 Brady L F 433-7490
203 Brown M 432-6728
203 Coutey M A 333-7354
203 Craig M 451-4280
203 Craw John 432-5140
203 DeChiaro V D 451-3930
203 Doyle V J 333-3687
203 Doolan M M 332-2443
[illegible]
205 Del Vecchio Anthony 434-6115
[illegible]
212 Dolan Jerome A MD 451-4706
[illegible]
275 Wooley Elmer 433-1718
[illegible]
280 Burgers Walter 433-7182
280 Rubin Margaret 433-4538

HARRISON AVE Contd

260 Sacchiano Chas 434-6524
260 Schroeder A 434-3701
260 Sharp J 432-5628
260 Sproule B A 332-5610
260 Stanley G 432-5610
260 Strauch R 432-4603
260 Tandler S Mrs NA
260 Tandlich H 435-7207
260 Tevez Chas W 435-4089
260 Van Duveer Robt L NA
260 Van Horn Agnes Mrs 434-6253
260 Weber E H 451-5417
260 Wintenberger J F 332-6355
[illegible]
277 Dolan Thomas NA
277 Drobinski E NA

HUDSON COUNTY SOUTH — MARCH 1972

HARRISON AVE Contd

277 Frezo J A 332-5157
277 Flaherty P 432-0475
277 Flemmer T P 433-3701
277 Gleedening Wm 332-0543
277 Goscinski D 451-7903
277 Goscinski Wm Jr 451-7903
277 Gwinski M NA
277 Haskins Vincent J NA
277 Hohmann Florence 332-2802
277 Horn M 434-2606
277 Killoyle Dani J 433-3701
277 Kim B 332-2715
[illegible]

HARRISON ST

(PO Hoboken 07030)

HOBOKEN

From Paterson Ave to 4th St, 1 w of Jackson

NEWARK AVE

50 Sean Cutter 659-2311
50 Cheques 659-2311
50 Jo Matthews Inc 659-2311
50 Washington Knitting Mills Inc 659-4480

OBSERVER HWY

69 Orbit Car Wash 659-1835
64 Acorn Sound Provisions Incorporated 659-7032
69 Muzio John 798-5308
69 Muzio Thos 659-4642

1ST ST

101 Arturo Tire & Brake Svc 653-9715
[illegible]
201 Tarabochia Marine Hydraulics Co Inc 792-0500

HARRISON ST Contd

208 Bowen K NA
208 Caton J NA
208 Franglipne F 656-8092
208 Kristo F NA
208 Pastellasa F NA
208 Rivera J NA
210 Lee B NA
210 McLaughlin C NA
210 Oliveras M NA
210 Tirone N NA
210 Torres D 798-3656
210 Turner M 798-0670
[illegible]
305 Andrews Angela Mrs 659-1107
[illegible]
320 Gerald R J NA
320 Imperiale D 659-5667
320 Maletti Rita NA

HARRISON ST Contd

320 Oliver H NA
321 Andersen R M 963-4012
321 Baumgardner M 659-3490
321 Bender M 653-3001
[illegible]

4TH ST

400 Hob City Hosp Auth 798-0570
400 Hob City Redvlpmt Agency 798-0570
400 Housing Auth of the City of Hoboken 798-0570

HARTLEY PL

(PO Bayonne 07002)

BAYONNE

From North ne to Linden, 1 ne of Kennedy Blvd

NORTH ST

7 Harkaber I R NA
11 Byrne H 436-1995
[illegible]
33 Mitchell J NA

HAWTHORNE AVE

(PO Jersey City 07306)

JERSEY CITY

From Sip Ave nw, 2 nw of West Side Avenue

LINDEN ST

3 Dansavage M A NA
[illegible]
35 Plaza S P NA

APPENDIX K

State, County, & Local Records

NJDEP Open Public Records Act (OPRA) Materials

State of New Jersey
Department of Environmental Protection
GOVERNMENT RECORDS REQUEST FORM

IMPORTANT NOTICE

Please read this entire form carefully as it contains important information concerning the response to your record request, accessing records, disputing denials, and your rights concerning government records. For further information, access WWW.NJ.GOV/DEP/OPRA.

Requestor Information

First Name: CHRISTOPHER MI J Last Name COLABAUGH

Company: BOSWELL ENGINEERING

Mailing Address: 330 PHILLIPS AVENUE

City: South Hackensack Twp State: NJ Zip: 07606 Email: ccolabaugh@boswellengineering.com

Business Telephone: (201) 641-0770 Extension 383

Facsimile Telephone: (201) 641-1757

State Use Only

Tracking #	112917
Received Date	09/01/2011
Access Method	On-site access, visit, copy

All matters relating to the response and access of any records identified for this request should be directed to:

NJDEP – Office of Record Access
401 East State Street
Mail Code 401-06Q
PO Box 420
Trenton, New Jersey 08625-0420
Tele #: (609) 341-3121
Fax #: (609) 292-1177

Record Request Details:

Property Desc: Commerical/Industrial I am requesting any site remediation documents related to on-site groundwatercontamination, underground storage tanks, or emergency spill responces. The site is the entire Block 12 in Hoboken, containing Lots 1-8. Property owners included Debrosses Garage Corp C/O Ponte, Ponte Equities Inc., Antonio & Mario Ratto, City ofHoboken Mayor & Council, Ratto, A Etals T/A Triple A RE CO, Mita & Tanvi Patel , and UnityEnvmtl & Educational Systems.

Disposition Notes

Based on the record request, no responsive records have been identified. Requester should contact the Office of Record Access at 609-341-3121 with any questions.

Addendum Disposition Notes: NONE

Record Request Response

In Progress	-	Open	
Filled	-	Closed	X
Denied	-	Closed	
Partial	-	Closed	

Matthew J Coyle 09/09/2011

Custodian Signature Date

Access to Government Records Under the New Jersey Open Public Records Act (N.J.S.A. 47:1A-1 et seq.)

Information Regarding the Requested Records		
If your request is in reference to a single facility, please provide the name of the facility, and the name of the operator name of the facility:	Facility Name: Operator Name:	
Please provide the owner name the facility or parcel of land:	Owner Name:	
If your request is in reference to a specific parcel of land, please provide the street address, block, lot and property owner of the parcel of land: (Note: if the property in question is over multiple blocks and lots, please list all in the description field below)	Street Address 1: 57-69 Harrison Street, 51-69 Paterson Av Street Address 2: & 58-64 Jackson Street Block: 12 Lot: 1-8	
If your request is in reference to a facility, site or parcel of land, please provide the Municipality and County where the facility, site or parcel of land is located:	County: Hudson Municipality: Hoboken City	
If the request is in reference to a particular permit issued by NJDEP, please provide the type of permit and any identifying numbers such as permit, incident or case numbers. (i.e. Fishing, Hunting, Hazardous Waste, Solid Waste, Land Use, NJPDES, Pesticides, Stream Encroachment, TWA, UST, Water Allocation)	List Permit Type:	List ID Numbers:
If your request is in reference to an individual, please provide the individual's name and type, and if the individual is a DEP employee, your relationship with the individual:	Individual's name: Type of Individual: Relationship:	
If the an individual was specified above, the individual was DEP Licensed, please specify the license type the individual holds:	License Type:	

The New Jersey Department of Environmental Protection has responded to your submitted Open Public Records Act (OPRA) record request. The following information will help you understand the response and your next available actions.

Tracking #: This is the Department's assigned Tracking # to your OPRA record request, which should be used in all corresponding matters.

Record Request Response:

- **In Progress** – Based on the nature of the request, the records sought, and/or the manner to which the records may exists, the Department requires additional time to investigate and respond to the request.
- **Filled** – Based on the information provided in your request, the Department was able to investigate and respond to your record request.
- **Denied** – Based on the nature of the request and/or the records sought, the Department has denied your request pursuant to a specific exemption(s) cited in N.J.S.A. 47:1A-1 seq.
- **Partial** – The Department has identified both responsive government records and records being denied based on the nature of the request and/or the records sought, that do not meet the definition of a government record pursuant to a specific exemption(s) cited in N.J.S.A. 47:1A-1 seq.

Disposition Notes: Provides detailed information concerning the Department's response to your request.

Accessing Records: Dependent on the volume of records and your interest, there are four (4) methods available to access the responsive government records:

- **File Review** – Schedule a file review with the Department to directly access the records and take notes or tag records of interest for copying. Copying can be performed by either the Department's onsite Copying Unit at State duplication fee costs or by the requester employing a Copy Vendor Service. If there are records stored in archives, a five-day processing period will be included prior to scheduling a review.
- **Copy Request** – All records of interest will be copied by the Department's onsite Copying Unit at State duplication fee costs unless a Copy Vendor Service is employed.
- **Electronic Records Request** – Dependant on the size & nature of the e-records, the Department will email the records or provide a CD or DVD.
- **Fax Request** – Based on the number of pages, the Department faxes the responsive records.
- **Web Access** – The responsive records can be access directly through the Department's web site. Web address will be provided.

Access to Government Records Under the New Jersey Open Public Records Act (N.J.S.A. 47:1A-1 et seq.)

1. The fees for duplication of a government record are specified below. We will notify you of any special charges, special service charges or other additional charges authorized by State law or regulation before processing your request. Payment shall be made by cash, check or money order payable to the State of New Jersey and mailed to the address specified below.

Hard Copies:			**Electronic Records:**	
	Letter & Legal size	= $0.05 per page		CDs = $2.00 per CD
	Oversized Maps (Color)	= $5.00 per map		DVDs = $2.00 per DVD
	Oversized Maps (B&W)	= $3.00 per map		

* A **special service fee** will be applied to all copy jobs where time is expended preparing the records to be copied (removing staples, bindings, etc) and reassembling the records. The fee will be based on the direct salary costs of the individual making the copies.

2. Pursuant to OPRA (C.47:1A-5c & C47:1A-5d), the Department will apply service fees for any extraordinary expenditure of time and effort to accommodate a request. The service fees will be based upon the actual direct cost of providing the service or extraordinary time. If the requester objects to the fee, the request is closed and access to the records is not granted.

   An **extraordinary time service fee** will be charged for those requests that required the Department to expend extraordinary effort and time investigating, preparing and providing the responsive records. These requests normal require the involvement of numerous record custodians, file officers and staff through different Department Program Areas based on the general broadness of the request and not specifying a particular record but a category of records. The extraordinary time service fee is incurred prior to the Department notifying the requester due to the fact that the Department is unable to estimate the extraordinary time that may be required on a particular request until all of the staff needed to respond to the request have completed their activities. The Department charges $68.65/Hr Fee for extraordinary time (EOT) service fees.

   A **special service fee** will be charged for a request that requires a specific Department employee to expend an extraordinary effort and time in order for the Department to provide the records. Such activities include but shall not be limited to converting electronic records from one medium to another medium, preparation of records for copying such as the disassembly (e.g. removal of staples & bindings) and reassembly of files, reviewing of records for responsiveness and privilege information, redaction of records. The actual direct costs of the Department's employee will be charged.

3. By law, the Department must notify you that it grants or denies a request for access to government records within seven business days after the custodian of the record requested receives the request, provided that the record is currently available and not in storage. If the record requested is not currently available or is in storage, the custodian will advise you within seven business days when the record can be made available and the estimated cost. You may agree with the custodian to extend the time for making records available, or granting or denying your request.

4. You may be denied access to a government record if your request would substantially disrupt agency operations and the custodian is unable to reach a reasonable solution with you.

5. If the Department was unable to comply with your request for access to a government record, the custodian will indicate the reasons for denial on the request form.

6. Except as otherwise provided by law or by agreement with the requester, if the custodian of the record requested fails to respond to you within seven business days of receiving a request form, the failure to respond will be considered a denial of your request.

7. **Resolution of Disputed Findings:**

   In the event that a requester does not agree with the Department's record response, the requester should:

   No Records - Reexamined the request details to evaluate if all of the information was provided that could aid the Department in locating records. The Department's ability to identify records of interest is in direct correlation to matching the Department information with the information provided on the request. Such important identifiers are Facility/Site Name, Address, Case #, Permit #, Block/Lot.

   Denial - If your request for access to a government record has been denied or unfilled within the time permitted by law, you have a right to challenge the decision by the Department to deny access. The Department denies access to records only when those records do not meet the definition of a government record and/or public access is not allowed pursuant to the law. At your option, you may either:

   a. Contact the Office of Record Access to re-visit the matter or provide further explanation.

   b. Institute a proceeding in the Superior Court of New Jersey

   c. File a complaint in writing with the Government Records Council (GRC). You may contact the GRC by toll-free telephone at 866-850-0511, by mail at PO Box 819, Trenton, NJ, 08625, by e-mail at *grc@dca.state.nj.us*, or at their web site at *www.state.nj.us/grc*. The Council can also respond to other questions about the law.

8. Information provided on this form may be subject to disclosure under the Open Public Records Act.

Revised Addendum Disposition Notes: NONE

Hudson County Open Public Records Act (OPRA) Materials

HUDSON REGIONAL HEALTH COMMISSION
MEADOWVIEW COMPLEX
595 COUNTY AVENUE, BUILDING 1, SECAUCUS, NEW JERSEY 07094
TEL. (201) 223-1133 FAX (201) 223-0122
Richard J. Censullo, President
Carrie Nawrocki, Director

FILE NO. HO-458
RECEIVED
OCT - 3 201
BOSWELL ENG
SOUTH HACKENS

9/29/201

Chris Colabaugh
Boswell Engineering
330 Phillips Ave, PO Box 3152
South Hackensack, NJ 07606

Dear Sir or Madam:

On 9/20/2011, the Hudson Regional Health Commission received your letter of request for information pertaining to the property located at 57-69 Harrison, 51-69 Paterson & 58-64 Jackson, Hoboken, New Jersey. The following disposition is noted:

Records located did not provide information pertinent to request. Records are available for requester's own review if desired.

Number of Pages Provided: 0
Copy Charges: $ 0
Shipping Charges: $ 0
Total Due: $ 0

The Commission appreciates your prompt payment of any total due.

The Hudson Regional Health Commission is an independent agency; it is not a department of any county or municipal government structure. Therefore, any requests for information from any county or municipal department must be made directly to those bodies.

Please be advised that information provided pertains only to addresses specifically listed in the request. Requests cannot be processed for general areas or "surrounding properties". The Hudson Regional Health Commission has provided you with the results of its record search at your request. In doing so, no warranties, express or implied are being made as to the accuracy of the information provided. In accepting this service from the Hudson Regional Health Commission, you understand and accept that the release of this information implies no warranty, guarantee or insurance policy, and that if you want such assurances, you will purchase such instruments and information from others.

If you have any questions regarding the information provided, please feel free to contact me.

Sincerely,

Joan Demjanick
Records Custodian

Tracking No: 1504

City of Hoboken Open Public Records Act (OPRA) Materials

OFFICE OF THE
FIRE MARSHAL

DIVISION OF FIRE
BUREAU OF FIRE PREVENTION
AND
INVESTIGATION
201 Jefferson Street, Hoboken, NJ 07030
(201) 420 2268/9
Fax (201) 420 2227

CERTIFICATE OF FIRE CODE STATUS

DATE: 9/16/2011 REGISTRATION #_____

Building/Premise Location: 58-62, 64 Jackson Street

Agency Requesting: Christopher Colabaugh c/o Boswell Engineering
330 Phillips Ave.
South Hackensack, NJ 07606

Telephone: _____

( ) According to our records, as of _____there are no unabated violations or unpaid penalties outstanding.

( ) There are outstanding violation(s) and/or penalty(s) as of_____.

( ) No environmental incidents had occurred.

( ) Records attached indicate environmental incidents.

(X) No records or reports on file

Capt. D. Buoncuore 130443
Fire Marshal/DFS #

CITY OF HOBOKEN
OFFICE OF THE CLERK
FAX SHEET

TO: Chief Bloom / Fire Prevention

FROM: Mike

DATE: 9/14/11

PAGES TO FOLLOW: 7

FAX NUMBER IS 201-420-2085

OUR PHONE NUMBER IS 201-420-2026/2074

CITY CLERK'S OFFICE
CITY HALL
HOBOKEN, NEW JERSEY 07030
(201) 420-2074

JAMES J. FARINA
CITY CLERK

MEMO

Log # 11-1831 — (1) Tom Shannon, Acting Construction Code
TO: 11-1832 — (2) Chief Bolden, Fire Division

CC: MARK TABAKIN, CORPORATION COUNSEL

FROM: JAMES J. FARINA, CITY CLERK

DATE: Sept. 14th, 2011

RE: OPEN PUBLIC RECORDS ACT (OPRA)

Attached please find a OPRA request form for information from your department. After obtaining the information, please return the information to this office. As you know, you need to provide the information within **seven business days.**

for #11-1831 Construction 1832 Jackson

CITY OF HOBOKEN

MUNICIPAL BUILDING
94 WASHINGTON STREET
HOBOKEN, NEW JERSEY 07030

REQUEST FOR PUBLIC RECORDS

Name: Christopher Colabaugh c/o Boswell Engineering

Address: 330 Phillips Avenue
South Hackensack, NJ 07606

Telephone [day] (201) 641-0770

Information Requested:

[ ] **Copy of Minutes** [specify board or entity, date, topic or other identifying information]

[ ] **Copy of Ordinance or Resolution** [specify date, number, or other identifying information]

[ ] **Police Accident Report** Fee: _____

Date & Location of Accident _____

[X] **Other** [specify] requesting all information on environmental concerns such as hazardous chemical spills, underground storage tanks, hazardous chemical storage permits, etc. see attached letter.

[ ] **License Information** [Specify] _____

Information on a Specific Property Address ~~57-63 Harrison Street, 51-60 E. Newark Avenue,~~ 58-64 Jackson Avenue, Hoboken, NJ

Block 12 Lot 1-18

[ ] **Municipal Lein Search** Fee $10.00

Municipal Lien Searches are provided by the designated search officer and will be provided within 15 days after the request is received and the fee paid, as provided in J.J.S.A. 54:5-11, *et seq.*

[ ] **List of Property Owners within 200'** Fee: _____

As provided in N.J.S.A. 40:55D-12, the fee is greater of $0.25 per name or $10.00

** For Municipal Use Only**

The information requested will be ready on _____

Estimated Number of Pages _____ Estimated Cost _____

Deposit _____

[required where the anticipated cost of reproduction exceeds $5.00]

RECEIVED 2011 SEP 14 AM 11:21

ACKNOWLEDGMENT

The Applicant hereby acknowledges receipt of a copy of this form with the date on which the information is expected to be available and the estimated cost. The applicant hereby certifies that he or she has not been convicted of any indictable offense under the laws of this State, any other state or the United States and is not seeking government records containing personal information pertaining the victim or the victim's family as provided by *N.J.S.A. 47:1A-1 et seq.*

I hereby acknowledge that I have received the document(s) requested except for any document(s) specifically listed on the Public Records Request Response Form.

Applicant

Municipal Official

Date: 9/20/2011

Date: _____

CITY OF HOBOKEN

PUBLIC RECORDS REQUEST RESPONSE

TO : _____

DATE : _____

For the following reason(s), the document(s) listed below and requested by you are not being provided because the document(s) are not public records as provided by law:

_____

_____

_____

_____

_____

_____

_____

_____

_____

You have a right to appeal the decision that the document(s) are not public records. You may take your appeal to the Government Records Council or to the New Jersey Superior Court, as provided by *N.J.S.A. 47:1A-1 et seq.* If your request has been denied, a statement of the procedures for the appeal will be attached to this notification.

ACKNOWLEDGMENT

I hereby acknowledge that the document(s) specifically listed above documents will not be provided. If any documents have not been provided. I further acknowledge that I have received information on the procedures for any appeals of the determination.

_____ _____

Date Applicant

_____ _____

Date Municipal Clerk

BOSWELL McCLAVE ENGINEERING
ENGINEERS ■ SURVEYORS ■ PLANNERS ■ SCIENTISTS
EST. 1924
330 Phillips Avenue • P.O. Box 3152 • South Hackensack, N.J. 07606-1722 • (201) 641-0770 • Fax (201) 641-1831

VIA FACSIMILE AND REGULAR MAIL

September 13, 2011

Mr. James J. Farina, RMC
Municipal City Clerk
City of Hoboken
94 Washington Street
Hoboken, NJ 07030

Re: Open Records Act Request Form
Preliminary Assessment Report
Block 12, Lots 1-18
City of Hoboken
Hudson County, New Jersey
Our File No. HO-458

Dear Mr. Farina:

Boswell McClave Engineering is performing a Preliminary Assessment on the following parcels in the City of Hoboken.

ADDRESS	BLOCK AND LOTS
57-67 Harrison Street	Block 12, Lots 1-6
69 Harrison Street	Block 12, Lot 7
63-65 Paterson Avenue	Block 12, Lot 8
67-69 Paterson Avenue	Block 12, Lot 9
61 Paterson Avenue	Block 12, Lot 10
59 Paterson Avenue	Block 12, Lot 11
57 Paterson Avenue	Block 12, Lot 12
55 Paterson Avenue	Block 12, Lot 13
51-53 Paterson Avenue	Block 12, Lot 14
64 Jackson Street	Block 12, Lot 15
58-62 Jackson Street	Block 12, Lots 16-18

In order to complete the assessment, we are hereby submitting an Open Records Act Request Form for a file search. Items such as underground storage tank (UST) records, hazardous material spill responses, and/or fire responses will assist this office in the assessment's completion. I will be happy to conduct the search in person at your convenience.

Please contact me at (201) 641-0770 to schedule an appropriate date and time. Thank you for your cooperation.

Very truly yours,

BOSWELL McCLAVE ENGINEERING

Chris Colabaugh

CC/fan
Enclosure

110913FANL1_co.docm

BOSWELL ENGINEERING

OPEN PUBLIC RECORDS ACT (OPRA)

CITY OF HOBOKEN

MUNICIPAL BUILDING
94 WASHINGTON STREET
HOBOKEN, NEW JERSEY

A request for a copy of Public Records should be submitted on this attached form, which has been adopted by the Municipal Clerk as the Custodian of Records. Some records will be immediately available during normal business hours. Some records requested have specific fees or other response times established by statute. There is no fee involved in inspecting a document during normal business hours.

The term "public records" includes those records determined to be public in accordance with N.J.S.A. 47:1A-1. The term does not include employee personnel files, police investigation records, public assistance files or other matters in which there is a right of privacy or confidentially or which is specifically exempt by law.

In General:

- Records which are not readily available or which will require a search of records will be made available as soon as possible and you will be provided with an interim report within seven (7) business days indicating the time which will be required to provide the records.

- Except as otherwise provide by law or regulation, the fee assessed for the duplication of a printed record shall be $0.06 per page; for a police accident report there is an additional fee when the request is not made in person of $5.00 for the first three pages and $1.00 for each additional page, as provided by N.J.S.A. 39:4-131.

- Where a request is for a copy in a format other than a photocopy, reasonable efforts will be made to provide the information in the format request. The cost will be based on the costs of producing the format requested.

- Where a legal determination must be made as to whether records are "public records" as provided by law, the request will be reviewed by the Municipal Attorney.

OFFICE OF THE
FIRE MARSHAL

DIVISION OF FIRE
BUREAU OF FIRE PREVENTION
AND
INVESTIGATION
201 Jefferson Street, Hoboken, NJ 07030
(201) 420 2268/9
Fax (201) 420 2227

CERTIFICATE OF FIRE CODE STATUS

DATE: 9/16/2011 REGISTRATION #_____

Building/Premise Location: 63-65, 67-69, 61, 59, 57, 55, 51-53 Paterson Ave.

Agency Requesting: Christopher Colabaugh c/o Boswell Engineering
330 Phillips Ave.
South Hackensack, NJ 07606

Telephone: _____

( ) According to our records, as of _____ there are no unabated violations or unpaid penalties outstanding.

( ) There are outstanding violation(s) and/or penalty(s) as of_____.

( ) No environmental incidents had occurred.

( ) Records attached indicate environmental incidents.

(X) No records or reports on file

Capt. D. Buoncuore 130443
Fire Marshal/DFS #

CITY OF HOBOKEN
OFFICE OF THE CLERK
FAX SHEET

TO: Chief Bloher / Fire Prevention

FROM: Mike

DATE: 9/14/11

PAGES TO FOLLOW: 7

FAX NUMBER IS 201-420-2085

OUR PHONE NUMBER IS 201-420-2026/2074

CITY CLERK'S OFFICE
CITY HALL
HOBOKEN, NEW JERSEY 07030

(201) 420-2074

JAMES J. FARINA
CITY CLERK

MEMO

Log # 11-1829 → ① Tom Shannon, Acting Construction Code
TO: 11-1830 → ② Chief Bloom, Fire Department

CC: MARK TABAKIN, CORPORATION COUNSEL

FROM: JAMES J. FARINA, CITY CLERK

DATE: Sept. 14th, 2011

RE: OPEN PUBLIC RECORDS ACT (OPRA)

Attached please find a OPRA request form for information from your department. After obtaining the information, please return the information to this office. As you know, you need to provide the information within **seven business days.**

BOSWELL McCLAVE ENGINEERING
ENGINEERS ■ SURVEYORS ■ PLANNERS ■ SCIENTISTS
EST. 1924
330 Phillips Avenue • P.O. Box 3152 • South Hackensack, N.J. 07606-1722 • (201) 641-0770 • Fax (201) 641-1831

VIA FACSIMILE AND REGULAR MAIL

September 13, 2011

Mr. James J. Farina, RMC
Municipal City Clerk
City of Hoboken
94 Washington Street
Hoboken, NJ 07030

Re: Open Records Act Request Form
Preliminary Assessment Report
Block 12, Lots 1-18
City of Hoboken
Hudson County, New Jersey
Our File No. HO-458

Dear Mr. Farina:

Boswell McClave Engineering is performing a Preliminary Assessment on the following parcels in the City of Hoboken.

ADDRESS	BLOCK AND LOTS
57-67 Harrison Street	Block 12, Lots 1-6
69 Harrison Street	Block 12, Lot 7
63-65 Paterson Avenue	Block 12, Lot 8
67-69 Paterson Avenue	Block 12, Lot 9
61 Paterson Avenue	Block 12, Lot 10
59 Paterson Avenue	Block 12, Lot 11
57 Paterson Avenue	Block 12, Lot 12
55 Paterson Avenue	Block 12, Lot 13
51-53 Paterson Avenue	Block 12, Lot 14
64 Jackson Street	Block 12, Lot 15
58-62 Jackson Street	Block 12, Lots 16-18

In order to complete the assessment, we are hereby submitting an Open Records Act Request Form for a file search. Items such as underground storage tank (UST) records, hazardous material spill responses, and/or fire responses will assist this office in the assessment's completion. I will be happy to conduct the search in person at your convenience.

Please contact me at (201) 641-0770 to schedule an appropriate date and time. Thank you for your cooperation.

Very truly yours,

BOSWELL McCLAVE ENGINEERING

Chris Colabaugh

CC/fan
Enclosure

110913FANL1_co.docm

BOSWELL ENGINEERING

OPEN PUBLIC RECORDS ACT (OPRA)

CITY OF HOBOKEN

MUNICIPAL BUILDING
94 WASHINGTON STREET
HOBOKEN, NEW JERSEY

A request for a copy of Public Records should be submitted on this attached form, which has been adopted by the Municipal Clerk as the Custodian of Records. Some records will be immediately available during normal business hours. Some records requested have specific fees or other response times established by statute. There is no fee involved in inspecting a document during normal business hours.

The term "public records" includes those records determined to be public in accordance with N.J.S.A. 47:1A-1. The term does not include employee personnel files, police investigation records, public assistance files or other matters in which there is a right of privacy or confidentially or which is specifically exempt by law.

In General:

- Records which are not readily available or which will require a search of records will be made available as soon as possible and you will be provided with an interim report within seven (7) business days indicating the time which will be required to provide the records.

- Except as otherwise provide by law or regulation, the fee assessed for the duplication of a printed record shall be $0.06 per page; for a police accident report there is an additional fee when the request is not made in person of $5.00 for the first three pages and $1.00 for each additional page, as provided by N.J.S.A. 39:4-131.

- Where a request is for a copy in a format other than a photocopy, reasonable efforts will be made to provide the information in the format request. The cost will be based on the costs of producing the format requested.

- Where a legal determination must be made as to whether records are "public records" as provided by law, the request will be reviewed by the Municipal Attorney.

fog - #11-1827. Conduct 1828 - Fuel

CITY OF HOBOKEN

MUNICIPAL BUILDING
94 WASHINGTON STREET
HOBOKEN, NEW JERSEY 07030

REQUEST FOR PUBLIC RECORDS

Name: Christopher Colabaugh c/o Boswell Engineering

Address: 330 Phillips Avenue
South Hackensack, NJ 07606

Telephone [day] (201) 641-0770

Information Requested:

[ ] **Copy of Minutes** [specify board or entity, date, topic or other identifying information]

[ ] **Copy of Ordinance or Resolution** [specify date, number, or other identifying information]

[ ] **Police Accident Report** **Fee:**

Date & Location of Accident

[X] **Other** [specify] requesting all information on environmental concerns such as hazardous chemical spills, underground storage tanks, hazardous chemical storage permits, etc. see attached letter.

[ ] **License Information** [Specify]

Information on a Specific Property Address 57-69 Harrison Street, ~~51-69 Paterson Avenue, & 58-64 Jackson Avenue~~, Hoboken, NJ

Block 12 Lot 1-18

[ ] **Municipal Lein Search** Fee $10.00

Municipal Lien Searches are provided by the designated search officer and will be provided within 15 days after the request is received and the fee paid, as provided in J.J.S.A. 54:5-11, *et seq.*

[ ] **List of Property Owners within 200'** Fee:

As provided in N.J.S.A. 40:55D-12, the fee is greater of $0.25 per name or $10.00

** For Municipal Use Only**

The information requested will be ready on

Estimated Number of Pages Estimated Cost

Deposit

[required where the anticipated cost of reproduction exceeds $5.00]

RECEIVED 2011 SEP 14 AM 11:22 CITY CLERK'S OFFICE

ACKNOWLEDGMENT

The Applicant hereby acknowledges receipt of a copy of this form with the date on which the information is expected to be available and the estimated cost. The applicant hereby certifies that he or she has not been convicted of any indictable offense under the laws of this State, any other state or the United States and is not seeking government records containing personal information pertaining the victim or the victim's family as provided by *N.J.S.A. 47:1A-1 et seq.*

I hereby acknowledge that I have received the document(s) requested except for any document(s) specifically listed on the Public Records Request Response Form.

Applicant

Municipal Official

Date: 9/20/2011

Date: _____

CITY OF HOBOKEN

PUBLIC RECORDS REQUEST RESPONSE

TO : _____

DATE : _____

For the following reason(s), the document(s) listed below and requested by you are not being provided because the document(s) are not public records as provided by law:

_____

_____

_____

_____

_____

_____

_____

_____

_____

You have a right to appeal the decision that the document(s) are not public records. You may take your appeal to the Government Records Council or to the New Jersey Superior Court, as provided by *N.J.S.A. 47:1A-1 et seq.* If your request has been denied, a statement of the procedures for the appeal will be attached to this notification.

ACKNOWLEDGMENT

I hereby acknowledge that the document(s) specifically listed above documents will not be provided. If any documents have not been provided. I further acknowledge that I have received information on the procedures for any appeals of the determination.

_____	_____
Date	Applicant
_____	_____
Date	Municipal Clerk

OFFICE OF THE
FIRE MARSHAL

DIVISION OF FIRE
BUREAU OF FIRE PREVENTION
AND
INVESTIGATION
201 Jefferson Street, Hoboken, NJ 07030
(201) 420 2268/9
Fax (201) 420 2227

CERTIFICATE OF FIRE CODE STATUS

DATE: 9/16/2011 REGISTRATION #_____

Building/Premise Location: 57-69 Harrison Street

Agency Requesting: Christopher Colabaugh c/o Boswell Engineering
330 Phillips Ave.
South Hackensack, NJ 07606

Telephone: _____

( ) According to our records, as of _____ there are no unabated violations or unpaid penalties outstanding.

( ) There are outstanding violation(s) and/or penalty(s) as of _____.

( ) No environmental incidents had occurred.

( ) Records attached indicate environmental incidents.

(X) No records or reports on file

Capt. D. Buoncuore 130443
Fire Marshal/DFS #

CITY OF HOBOKEN
OFFICE OF THE CLERK
FAX SHEET

TO: Chief Bloom / Fire Prevention

FROM: Mike

DATE: 9/14/11

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FAX NUMBER IS 201-420-2085

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CITY CLERK'S OFFICE
CITY HALL
HOBOKEN, NEW JERSEY 07030
(201) 420-2074

JAMES J. FARINA
CITY CLERK

MEMO
Log # 11-1827 — (1) Tom Shannon, Acting Construction Code
11-1828 — (2) Chief Bolden, Fire Division
TO:

CC: MARK TABAKIN, CORPORATION COUNSEL

FROM: JAMES J. FARINA, CITY CLERK

DATE: Sept 14th, 2011

RE: OPEN PUBLIC RECORDS ACT (OPRA)

Attached please find a OPRA request form for information from your department. After obtaining the information, please return the information to this office. As you know, you need to provide the information within **seven business days.**

For 1984-Construction
#11 - 1930 - Fire

CITY OF HOBOKEN

MUNICIPAL BUILDING
94 WASHINGTON STREET
HOBOKEN, NEW JERSEY 07030

REQUEST FOR PUBLIC RECORDS

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Address: 330 Phillips Avenue
South Hackensack, NJ 07606

Telephone [day] (201) 641-0770

Information Requested:

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[ ] **Police Accident Report** **Fee:**

Date & Location of Accident

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Block 12 Lot 1-18

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2011 SEP 14 AM 11:22
RECEIVED

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I hereby acknowledge that I have received the document(s) requested except for any document(s) specifically listed on the Public Records Request Response Form.

Applicant

Date: 9/20/2011

Municipal Official

Date: _____

CITY OF HOBOKEN

PUBLIC RECORDS REQUEST RESPONSE

TO : _____

DATE : _____

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_____

_____

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_____ Date

_____ Applicant

_____ Date

_____ Municipal Clerk

BOSWELL MCCLAVE ENGINEERING
ENGINEERS ■ SURVEYORS ■ PLANNERS ■ SCIENTISTS
EST. 1924
330 Phillips Avenue • P.O. Box 3152 • South Hackensack, N.J. 07606-1722 • (201) 641-0770 • Fax (201) 641-1831

VIA FACSIMILE AND REGULAR MAIL

September 13, 2011

Mr. James J. Farina, RMC
Municipal City Clerk
City of Hoboken
94 Washington Street
Hoboken, NJ 07030

Re: Open Records Act Request Form
Preliminary Assessment Report
Block 12, Lots 1-18
City of Hoboken
Hudson County, New Jersey
Our File No. HO-458

Dear Mr. Farina:

Boswell McClave Engineering is performing a Preliminary Assessment on the following parcels in the City of Hoboken.

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55 Paterson Avenue	Block 12, Lot 13
51-53 Paterson Avenue	Block 12, Lot 14
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58-62 Jackson Street	Block 12, Lots 16-18

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Please contact me at (201) 641-0770 to schedule an appropriate date and time. Thank you for your cooperation.

Very truly yours,

BOSWELL McCLAVE ENGINEERING

Chris Colabaugh

CC/fan
Enclosure

110913FANL1_co.docm

BOSWELL ENGINEERING

APPENDIX L

Chain of Title Information

Title Report

ACCURATE ABSTRACTS
by Dolores Dios

124 Main Street, Bradley Beach , NJ 07720
www.AccurateAbstracts.com
CELL PHONE: (201) 207-0628
Fax: (304) 241 4280 • e-mail: acab@accurateabstracts.com

Serving All Twenty-One Counties In the State of New Jersey

Title Co: Boswell Engineering Environmental Title: HO-458 AA 278779 (Project Search)

Premises: 57-69 Harrison Street, 51-69 Paterson Avenue, & 58-64 Jackson Street Town: Hoboken City

County: Hudson Block: 12 Lot: 1-18 Qual:

File Map: Set Back:

Title In: Debrosses Garage Corp C/O Ponte Corporation () & Ponte Equities Inc. Corporation & Antonio & Mario Ratto & City of Hoboken Mayor & Council Other & Ratto, A Etals T/A Triple A RE CO Corporation & Mita & Tanvi Patel & Unity Envmtl & Educational Systems Other

By Deeds Dated: Recorded: In book: Page:

Mortgage: $ Dated: Recorded: In book: Page:

Held by:

Tax Sale Certificates: None in the time searched

Estates: None in the time searched

InheritanceTaxWaivers: None in the time searched

Restrictions: None in the time searched

Easements: None in the time searched

Grants: None in the time searched

NonForeclosureLisPendens: None in the time searched

ConstructionLiens: None in the time searched

UCCLiens: None in the time searched

FederalLiens: None in the time searched

InstitutionalLiens: None in the time searched

Judgements: None in the time searched

Reimbursements: None in the time searched

Leases: None in the time searched

PowerofAttorney: None in the time searched

Miscellaneous: None in the time searched

Remarks: We were not able to get behind 1979 on this chain. We have title out of the Gil family in 1979. They are one of the oldest families in Hudson County. We can find no deed for our property and suspect that title had been transferred by wills. This family held property in Hudson County before it was a county and the deed may well be recorded in Bergen County. The real problem lies in the fact that we are not sure which first names to use when examining the records looking for the deed or if it will be under Gil or another name. For instance if a daughter inherits the property from her father who held it under her maiden name. Please look over what we have sent and let me know if you will require additional work. -Dolores File map to follow by mail.

Certified as of 3-31-89. This report does not constitute an opinion of title, but merely discloses items found in the public records in the county in which the premises in question are located. This search is based on the recording and indexing systems of such county, and we cannot be held responsible for errors and omissions of such systems. By accepting this report, you agree that our liability for negligence, mistakes, or omissions is limited to an aggregate sum not to exceed the fee charged, and waive all rights to sue for damages not in accordance with the limitations set forth herein.

Pages: 239 Copies: 0 Surrogate Copies: 0 Condo Copies: No

Dolores Dios Title Abstractor

ACCURATE ABSTRACTS by Dolores Dios

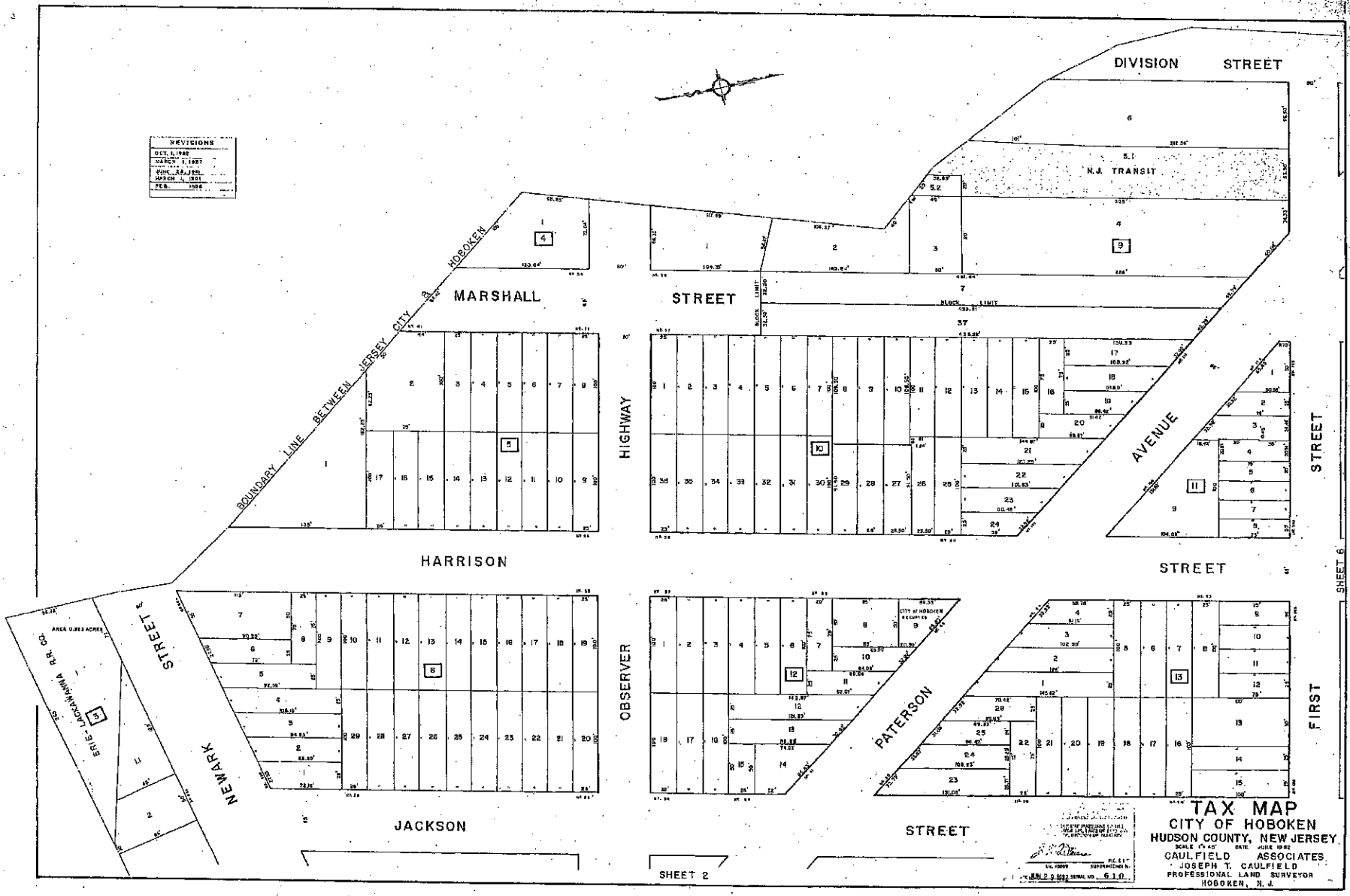
124 Main Street, Bradley Beach , NJ 07720
www.AccurateAbstracts.com
CELL PHONE: (201) 207-0628
Fax:(304) 241 4280 • e-mail: acab@accurateabstracts.com

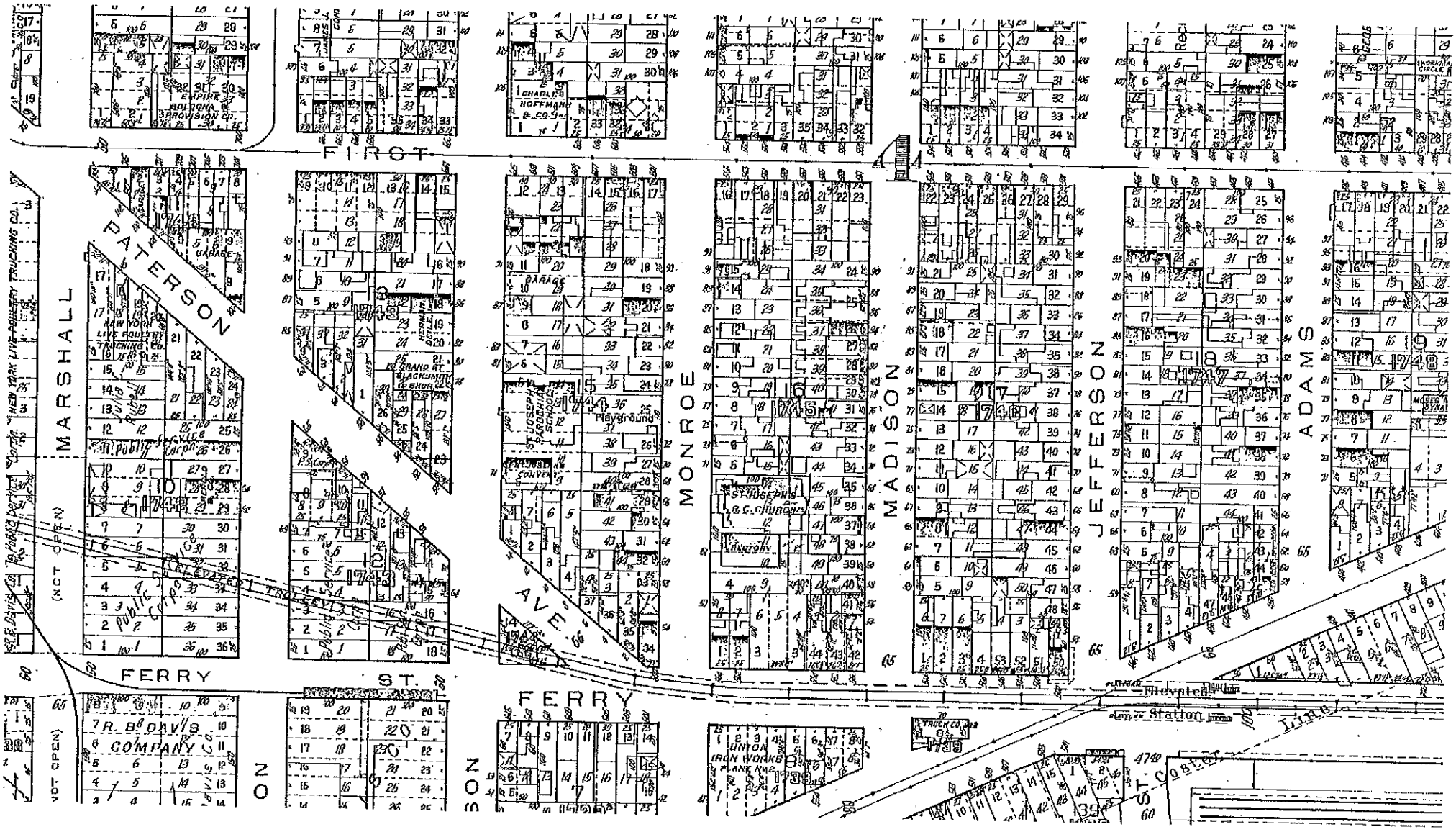
Serving All Twenty-One Counties In the State of New Jersey

AA#: 278779
Job Type: Project
County: Hudson
Town: Hoboken City
Address: 57-69 Harrison Street, 51-69 Paterson Avenue, & 58-64 Jackson Street
Block: 12
Lot: 1-18
Qualifier: *

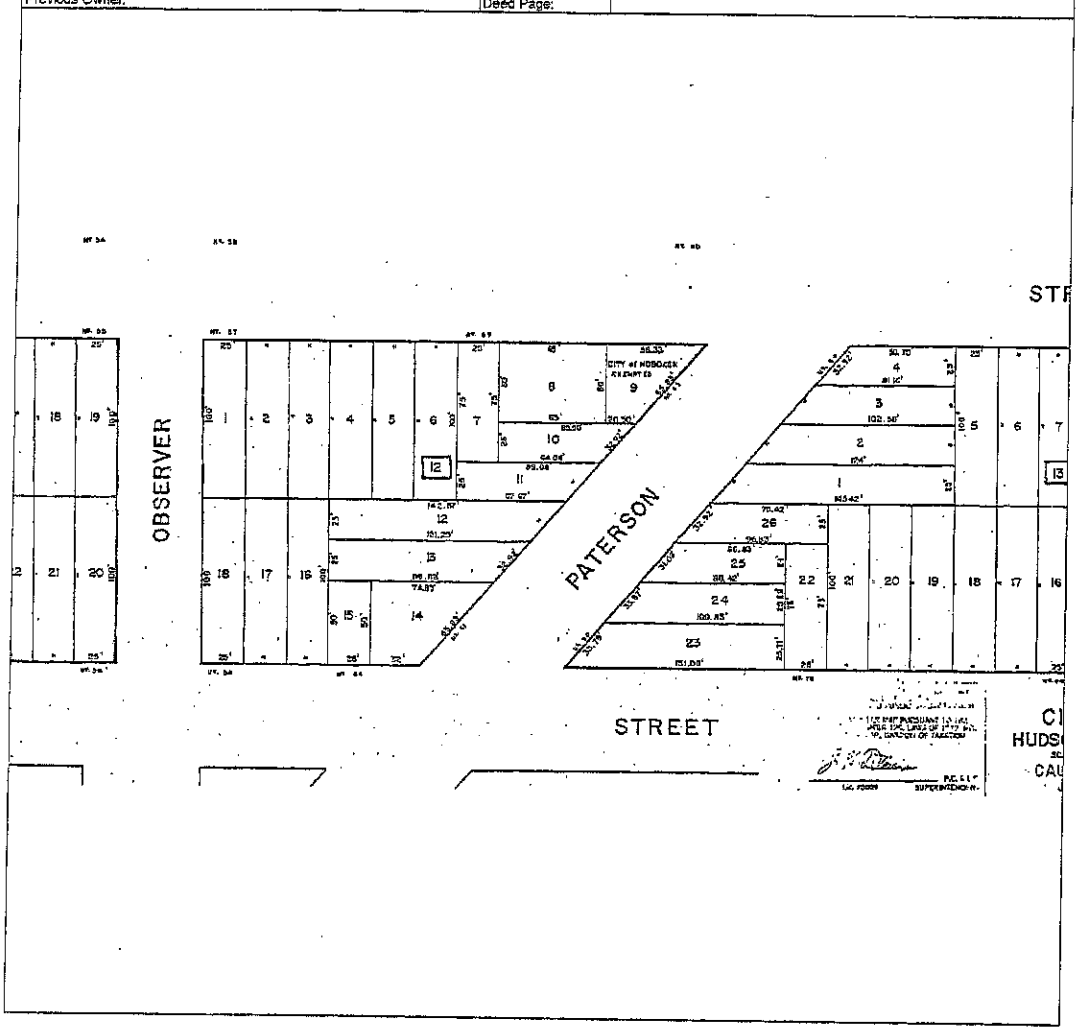
Title#: HO-458
Company: Boswell Engineering Environmental
Contact/Customer: Chris Colabaugh
Phone: 201 641 0770
Fax: 201 641 1757
Email: ccolabaugh@boswellengineering.com
Order Date: 08/23/2011
Status: Completed

Owner: Debrosses Garage Corp C/O Ponte , Ponte Equities Inc. , Antonio & Mario Ratto , City of Hoboken Mayor & Council Other , Ratto, A Etals T/A Triple A RE CO , Mita & Tanvi Patel , Unity Envmtl & Educational Systems Other
Deed Book: *
Page: *
Map: *
Purchaser: *
Effective Date: *
Copies: Regular


REVISIONS
DIVISION STREET
N.J. TRANSIT
MARSHALL STREET
BOUNDARY LINE BETWEEN JERSEY CITY & HOBOKEN
HIGHWAY
AVENUE
STREET
HARRISON STREET
ERIE LACKAWANNA R.R. CO.
AREA 0.262 ACRES
STREET
NEWARK
OBSERVER
PATERSON
FIRST
JACKSON STREET
SHEET 2
SHEET 6
TAX MAP
CITY OF HOBOKEN
HUDSON COUNTY, NEW JERSEY
SCALE 1" = 40'
DATE JUNE 1962
CAULFIELD ASSOCIATES
JOSEPH T. CAULFIELD
PROFESSIONAL LAND SURVEYOR
HOBOKEN, N. J.


FIRST
PATERSON
MARSHALL
MONROE
MADISON
JEFFERSON
ADAMS
FERRY ST.
FERRY
Elevated
Station
Line
Public Service
Playground
Garage
Empire Bologna Provision Co.
Charles Hoffmann & Co.
New York Live Poultry Trucking Co.
Brand St. Blacksmith & Shoe Co.
St. Joseph's Parochial School
St. Joseph's R. C. Church
Rectory
Public Service Corporation
R. B. Davis Company
Union Iron Works Plant No. 2
Truck Co. No. 2
(NOT OPEN)

Property Location	
51-53 PATERSON AVE, Hoboken 07030	
District: 805 (Hoboken City), Block: 12, Lot: 14	
Property Information	**Assessment Data**
Class: 1 - Vacant Land	Total Value: $41,800
Zoning:	Land Value: $41,800
Bld Description: LAND	Improvement Value:
Land Description: 50 X 53 CORNER	% Improvement: N/A
Acreage: 0.0508	Special Tax Codes:
Square Footage:	Deductions: Senior Veteran Widow Surv. Spouse Disabled
Usage:	Count:
Year Constructed:	Exemption:
Use Code:	Exemption statute:
# Dwellings:	2009 Rate: 4.489; 2009 Ratio: 29.25%; 2009 Taxes: $1,876
Census Tract: 0192	2010 Rate: 4.745; 2010 Ratio: 27.16%; 2010 Taxes: $1,983
	2011 Rate: (null); 2011 Ratio: N/A; 2011 Taxes: N/A
Current Owner	**Sale Data**
PONTE EQUITIES INC	Date:
268 WEST STREET	Price:
New York, NY 10013-1731	Ratio:
	Deed Book:
Previous Owner:	Deed Page:



WITNESSETH, that the said party of the first part, for and in consideratio of Two thousand three hundred dollars lawful money of the United States of America, to me in hand well and truly paid by the said party of the second part, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the said party of the first part being therewith fully satisfied contented and paid hath given granted bargained sold aliened released enfeoffed conveyed and confirmed and by these presents doth give grant bargain sell alien release enfeoff convey and confirm unto the said party of the second part and to his heirs and assigns, forever, ALL THAT CERTAIN LOT TRACT OR PARCEL of land and premises hereinafter particularly described situate lying and being in the fourth Ward of the city of hoboken in the County of Hudson and State of New Jersey and which on a certain map entitled "Map of property situated at Hoboken Hudson County New jersey belonging to the estate of John G. Coster deceased surveyed and laid out into lots November 1850 by Daniel ewen and Austen D. Ewen City Surveyors New York " duly filed in the office of the Clerk of the said County of Hudson designated distinguished and and known as lot numbered Thirteen (13) in Block numbered twelve (12) fronting and facing on the southerly side of the line of Paterson Avenue between Jackson and Harrison Streets and being ninety nine feet ~~three~~ ten inches deep on the easterly side three inches deep on the Westerly side and twenty five feet and one hundred twenty one feet wide in rear with a slanting frontage of about thirty two feet eleven inches on Paterson Avenue aforesaid

BEING the same premises conveyed to the said August Schmidt and Augusta Schmidt his wife by John Fisher and Ann Fisher his wife by deed dated march 8 1893 and recorded in liber 571 of Deeds for Hudson County page 274 said Augusta Schmidt having departed this life since the execution of the said deed. TOGETHER with all and singular the tenements heredi taments and appurtenances thereunto belonging or in anywise appertaining and the reversions and reversions remainder and remainders rents issues and profits thereof . AND ALSO all the estate right title interest property possession claim and demand whatsoever as well in law as in equity of the said party of the first part of in and to the above described premises and every part and parcel thereof with the appurtenances . TO HAVE AND TO HOLD all and singular the above mentioned premises together with the appurtenances unto the said party of the second part his heirs and assigns to his and their own proper use benefit and behoof forever. AND the said AUGUST Schmidt for himself his heirs executors and administrators doth covenant grant and agree to and with the said party of the second part his heirs and assigns that the said AUGUST Schmidt at the time of the sealing and delivery of these presents is lawfully seized in his own right of a good absolute and indefeasible estate of inheritance in fee simple of and in all and singular the above granted bargained and described premises with the appurtenances and has good right full power and lawful authority to grant bargain sell and convey the same in manner and form aforesaid. AND that the said party of the second part his heirs and assigns shall and may at all times hereafter peaceably and quietly have hold use occupy possess and enjoy the above granted premises and every part and parcel thereof with the appurtenances without any let suit trouble molestation eviction or disturbance of the said party of the first part his heirs or assigns or of any other person or persons lawfully claiming or to claim the same.

the bill of complaint, which lands and premises are therein described as follows, to wit: ALL that certain lot, tract or parcel of land and premises hereinafter particularly described, situate, lying and being in the City of Hoboken, in the County of Hudson and State of New Jersey, described as follows: BEGINNING at a point on the northerly side of First Street distant forty (40') feet easterly from the corner formed by the intersection of the northerly side of First Street with the easterly side of Harrison Street; running thence northerly and parallel with Harrison Street seventy-five (75') feet; thence easterly and parallel with First Street twenty (20') feet; thence southerly and again parallel with Harrison Street seventy-five (75') feet to the northerly side of First Street and thence westerly along the northerly side of First Street aforesaid twenty (20') feet to the point or place of beginning. Said premises are commonly known as 662 First Street, Hoboken, New Jersey. AND it is further ADJUDGED, DECLARED and DECREED that the said complainant is seized of an absolute and indefeasible estate of inheritance in fee simple in the whole and every part of the lands and premises above described and that neither the said defendants aforesaid, nor any person or persons claiming by, through, or under them have any right, title or interest in, lien or claim upon said lands and premises above described or any part thereof.

LUTHER A. CAMPBELL,
C.

(Chancery Seal) I, EDW. L. WHELAN, Clerk of the Court of Chancery of the State of New Jersey, the same being a Court of Record, do hereby certify that the foregoing is a true copy of the FINAL DECREE, Filed June 21, 1940, in the cause wherein THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN, a municipal corporation of the State of New Jersey, is Complainant, and FLORENCE MOROCCO, et als, are Defendants, now on the files of my office. IN TESTIMONY WHEREOF, I have hereto set my hand and affixed the seal of said Court, at Trenton, this 21st day of June, A.D. nineteen hundred and forty.

EDW. L. WHELAN,
Clerk.

(No Rev. Stamps)

Received in the office and recorded June 26, 1940 at 3:33 P. M. #3599

BLOCK #1743 124/277

COMPARED

IN CHANCERY OF NEW JERSEY.
124/277

Between

THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN, a municipal corporation of the State of New Jersey,

Complainant,

-and-

ROBERT FREDDE, et als.,

Defendants.

On Bill to Foreclose Right of Redemption, Etc.

FINAL DECREE

This cause being opened to the Court by JOHN J. FALLON, the solicitor for and of counsel with the complainant, whereupon, and upon reading a report, on file, made by JOHN J. MAHONEY one of the Masters of this Court, bearing date on the 30th day of April, 1940, from which it appears that there was due to the complainant, by virtue of its certificate of tax sale and for subsequent taxes, on the day of the making of the said report, the sum of $3,912.89 with interest from December 29, 1939 and that the said Master had appointed Friday the 31st

(Chancery Seal)

I, EDW. L. MEKLAN, Clerk of the Court of Chancery of the State of New Jersey, the same being a Court of Record, do hereby certify that the foregoing is a true copy of the FINAL DECREE, Filed June 20, 1940, in the cause wherein THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN, a municipal corporation of the State of New Jersey, is Complainant, and ROBERT FREDDE, et als., are Defendants, now on the files of my office. IN TESTIMONY WHEREOF, I have hereto set my hand and affixed the seal of said Court, at Trenton, this 21st day of June A. D. nineteen hundred and forty.

EDW. L. MEKLAN,
Clerk.

(No Rev. Stamps)

Received in the office and recorded June 26, 1940 at 3:34 P. M. #3600

E. N.

BLOCK #1772

COMPARED

IN CHANCERY OF NEW JERSEY.
130/437

Between

THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN,
a municipal corporation of the State of New Jersey,
Complainant,

-and-

Louis Spano, et als.,
Defendants.

On Bill to Foreclose Right of Redemption, Etc.

FINAL DECREE

This cause being opened to the Court by John J. Fallon, the solicitor for and of counsel with the complainant, whereupon, and upon reading a report, on file, made by Arohie Usdin one of the Masters of this Court, bearing date on the 14th day of May, 1940, from which it appears that there was due to the complainant, by virtue of its certificate of tax sale and for subsequent taxes, on the day of the making of the said report, the sum of $3,834.62 and that the said Master has appointed Tuesday the 18th day of June 1940 at ten o'clock in the forenoon at his office 89 Washington Street in the City of Hoboken, in the County of Hudson, as the time and place where and when the defendants should make redemption and pay to the complainant the sum of $3,834.62 together with its taxed costs of suit, which report was on the 16th day of May, 1940, duly ratified and confirmed by this Court;

And it further appearing that notice of the time and place fixed by said Master in and by his said report aforesaid, when and where the defendants, should make redemption and pay to the complainant the amount due it as aforesaid, has been duly given to the defendants in the manner as directed and prescribed by the decree of this Court confirming said Master's report aforesaid; Whereupon and upon reading a certain other report on file, made by the said Master, bearing date the 18th day of June 1940, by which it appears that the said Master and the complainant's solicitor duly attended at the time and place so appointed as aforesaid, and that neither the said defendants, nor any other person or persons in their behalf as aforesaid, have paid or offered to pay to said complainant the sum of money to wit, $3,834.62 so found and reported to be due to said complainant, together with its taxed costs of suit, either at the time and place aforesaid, or at any other time or place;

It is thereupon on this 19th day of June, 1940, by his Honor Luther A. Campbell, Chancellor of the State of New Jersey; ORDERED, ADJUDGED and DECREED that the said last mentioned Master's report, and all matters and things therein contained, do stand ratified, con-

Decree bearing date June 20, 1940, entered in the Court of Chancery of New Jersey in the matter of The Mayor and Council of the City of Hoboken, a municipal corporation of the State of New Jersey, Complainant, and Robert Fredde, et als., Defendants, which said Final Decree was on June 26, 1940 recorded in the Office of the Register of the County of Hudson, in Book 1969 of Deeds, on page 568, etc.

The Party of the First Part reserves to itself the right to demand, collect, sue for and receive all the unpaid rents due from the tenants now in possession of the premises above described, and which accrued and were payable by said tenants prior to the date hereof.

Subject to such state of facts as an accurate survey would disclose, to zoning ordinances, easements and restrictions of record if any, covenant violations and existing tenancies, if any; due to taxes, assessments, water rents and other municipal liens accruing after the date hereof.

And it is covenanted and agreed by and between the parties hereto that it is the intention of the parties hereto that the grantor herein named conveys hereby only such right, title and interest in and to the lands and premises described in this deed as was acquired by the grantor through municipal tax sale proceedings and decree of the Court of Chancery of New Jersey relating thereto, or deed from the former owner, as the case be, and that the grantee in this deed named, her heirs, executors, administrators or assigns shall have no recourse at law or in equity against the grantor for any imperfections of title or otherwise, if such there may be.

This deed is executed and delivered pursuant to a resolution adopted by the Board of Commissioners of The Mayor and Council of the City of Hoboken, on the 3rd *day of* November, 1948.

BOOK 2344 PAGE 240

STATE OF NEW JERSEY }
COUNTY OF HUDSON } SS:

Be It Remembered, That on this 21st day of December in the year of our Lord One Thousand Nine Hundred and Forty-eight, before me the subscriber, a Notary Public of New Jersey personally appeared Arthur C. Malone who being duly sworn according to law on his oath deposes and makes proof to my satisfaction, that he is (and who is known to me to be) the City Clerk of The Mayor and Council of the City of Hoboken, the grantor within named; that

Fred M. DeSapio is the Mayor of said City; that deponent knows the corporate seal of said City; that the seal affixed to the foregoing deed is such corporate seal; that he saw the said Mayor sign, seal and deliver the said deed; and heard him acknowledge that he signed, sealed and delivered the same as the voluntary deed of said City, for the uses and purposes therein expressed, and that deponent at the same time affixed the corporate seal of said City thereto and attested the same, and subscribed his name to said deed as witness.

Subscribed and sworn to before me
this 21st day of December
19 48.

Arthur C. Malone
ARTHUR C. MALONE

Frank Lally
Notary Public of New Jersey

ENTERED
INDEXED
COMPARED

ASSESSOR

Deed, Sec. 2

THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN, a municipal corporation of the State of New Jersey,

To

MRS. ANNA DUSOH, a widow

Dated, December 21, 19 48

Recorded in the Office of The County of on the day of A.D., at o'clock in the noon and Recorded in Book of DEEDS for said County, on page

Abr. M. Nickelsporn
Counsellor at Law
81 Washington Street
Hoboken, New Jersey

HUDSON COUNTY, N.J.
1948 DEC 27 AM 9:13
REGISTER'S OFFICE

Register of Hudson County

New Jersey to the grantor herein which deed is intended to be recorded simultaneously herewith, the said Anna Busch being a mere conduit of title.

BOOK 2344 PAGE 244

State of New Jersey,
County of Hudson } ss:

Be it Remembered. That on this 22d day of December, in the year of our Lord One Thousand Nine Hundred and Forty-eight before me the subscriber, a Notary Public of New Jersey,

personally appeared ANNA BUSCH,

who, I am satisfied, is the grantor mentioned in the within Instrument, to whom I first made known the contents thereof, and thereupon she acknowledged that, she signed, sealed and delivered the same as her voluntary act and deed, for the uses and purposes therein expressed.

A Notary Public of New Jersey

ENTERED

INDEXED

COMPARED

ASSESSOR

Hy 775 [illegible]

Recd.

ANNA BUSCH,

TO

ANTHONY CAVALLO

Dated, December 22nd 1948

Received in the Office of the County of on the day of A. D. 19 at o'clock in the noon and Recorded in Book of DEEDS for said County, on page

Adr. M. [illegible]
Clerk of the Board

Register of Hudson County

To Have and to Hold, *said premises with the appurtenances, unto the said grantee* his heirs - *and assigns forever*

And the said grantors -

for themselves, their heirs - - - - - - - - - - *and assigns, do* - - - - - - - - -

Covenant:

1. *That the title to said premises is vested in fee simple absolute in the said grantor* s.
2. *That* they *have the right and authority to convey the said premises to the said grantee*
3. *That the grantee shall have peaceable and quiet possession of the said premises free from all encumbrances.*
4. *That the same are now free and clear of all encumbrances whatsoever, except*
5. *That the grantor* s *will execute or procure such further assurances and conveyances of the said land as may be reasonably required.*
6. *That* they *will WARRANT and DEFEND the premises hereby conveyed against all persons lawfully claiming the same.*

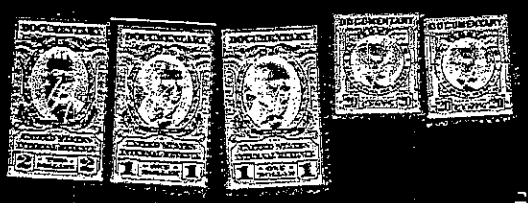
In Witness Whereof, *the said grantors have* hereunto set their hands and seals the 27th day of February, 1952.

Signed, Sealed and Delivered
in the presence of

Anthony Cavallo (L.S.)
ANTHONY CAVALLO

Mary Cavallo (L.S.)
MARY CAVALLO

STEPHEN MONGELLO,
An attorney at law of New Jersey.



RECORDED
REGISTER'S OFFICE
HUDSON COUNTY
1952 APR 15 AM 11:07

JERSEY CITY, N.J.
EUGENE EMILE, REGISTER

Register of Hudson County

909—Warranty Deed—New Jersey. Ind. to Ind. or Corp.

JULIUS BLUMBERG, INC., LAW BLANK PUBLISHERS 71 BROADWAY AND 1 RECTOR ST., NEW YORK

Doc. Stamps $ 3.30

Assessors /

This Indenture,

Made the 17th *day of* August *, in the year of our Lord One Thousand Nine Hundred and* Sixty-Four,

Between Frederick Charles Keirle and Sophie Keirle, his wife,

residing at 410 Fairfield Road,
in the Township *of* Wayne *County of*
and State of New Jersey *party of the first part;*

And JOHN M. BACKUS, 55 Paterson Street,

in the City *of* Hoboken *County of* Hudson
and State of New Jersey *party of the second part;*

Witnesseth, That the said party of the first part, for and in consideration of One ($1.00) Dollar and other good and valuable consideration, *lawful money of the United States of America, to* them *in hand well and truly paid by the said party of the second part, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the said party of the first part being therewith fully satisfied, contented and paid, ha* ve *given, granted, bargained, sold, aliened, released, enfeoffed, conveyed and confirmed and by these presents do* give, grant, bargain, sell, alien, release, enfeoff, convey and confirm unto the said *party of the second part, and to* grantee *and assigns, forever,*

All that certain *tract or parcel of land and premises, hereinafter particularly described, situate, lying and being in the* City *of* Hoboken *County of* Hudson *and State of* New Jersey, and which on a certain map entitled " Map of property situated at Hoboken, Hudson County, NewJersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots November 1860 by Daniel Ewen and Austin D. Ewen, City Surveyors, New York " duly filed in the Office of the Clerk of said County of Hudson is designated, distinguished and known as lot numbered 13 in block numbered 12 fronting and facing the Southerly side of Paterson Avenue between Jackson and Harrison Streets and being 99 feet 10 inches deep on the Easterly side and 121 feet 3 inches deep on the Westerly side and 25 feet wide in the rear with a slanting frontage of about 32 feet 11 inches on Paterson Avenue aforesaid.

Known as street number 55 Paterson Avenue, Hoboken, N. J., and lot numbered 13, block 12 on the Tax Assessment Map of Hoboken, N. J.

Together *with all and singular, the houses, buildings, trees, ways, waters, profits, privileges, and advantages, with the appurtenances to the same belonging or in anywise appertaining,*

Also, *all the estate, right, title, interest, property, claim and demand whatsoever, of the said party of the first part, of, in and to the same, and of, in and to every part and parcel thereof,*

To Have and to Hold *all and singular, the above described land and premises, with the appurtenances, unto the said party of the second part, heirs and assigns, to the only proper use, benefit, and behoof of the said party of the second part, heirs and assigns forever:*

And *the said* Grantors,

do for themselves and their *heirs, executors and administrators covenant and agree to and with the said party of the second part, heirs and assigns, that* the *the said* grantors,

the true, lawful and right owner of all and singular the above described land and premises, and of every part and parcel thereof, with the appurtenances thereunto belonging; and that the said land and premises, or any part thereof, at the time of the sealing and delivery of these presents, are not encumbered by any mortgage, judgment, or limitation, or by any encumbrance whatsoever, by which the title of the said party of the second part, hereby made or intended to be made, for the above described land and premises, can or may be changed, charged, altered or defeated in any way whatsoever:

And Also *that the said party of the first part now* have *good right, full power and lawful authority, to grant, bargain, sell and convey the said land and premises in manner aforesaid:*

And Also, *that* the grantors,

will **Warrant,** *secure, and forever defend the said land and premises unto the said*

heirs and assigns; forever, against the lawful claims and demands of all and every person or persons, freely and clearly freed and discharged of and from all manner of encumbrance whatsoever.

In Witness Whereof, *the said party of the first part ha* ve *hereunto set* their *hand and seal the day and year first above written.*

Signed, Sealed and Delivered in the presence of

Frederick Charles Keirle (IS)
Frederick Charles Keirle

William P. Conte
William P. Conte

Sophie Keirle (IS)
Sophie Keirle

Rec. 331

LIBER 2955 PAGE 567

Doc. Stamps
$ 55.4
Assessors 1

THIS INDENTURE,

made the 8th day of January, 1966

BETWEEN JOHN J. BACKUS and LORRAINE BACKUS, his wife, of 1735 Kenneth Avenue, Union, New Jersey;
MARY ANN FITZGERALD and MICHAEL FITZGERALD, her husband, of 10 Tell Place, Edison, New Jersey;
PAUL J. BACKUS and AGNES BACKUS, his wife, of 15 Olean Avenue, Jersey City, New Jersey;
DOROTHY COLONNA and FRANK COLONNA, her husband, of 91 Darien Road, Salem Hill, Lakewood, New Jersey;
GEORGE S. BACKUS and ROSE ANN BACKUS, his wife, of 23 Olean Avenue, Jersey City, New Jersey;
LEO R. BACKUS, Single, of 116 Duncan Avenue, Jersey City, New Jersey;
JOAN B. MOORE and KENNETH MOORE, her husband, of 25 Belvidere Avenue, Jersey City, New Jersey;
ANTHONY D. BACKUS, Single, of 116 Duncan Avenue, Jersey City, New Jersey; and
GERTRUDE VAITEKUNAS and WALTER VAITEKUNAS, her husband, of 1630 - 170th Place, Hammond, Indiana;
hereinafter designated as the GRANTORS,

AND GERTRUDE M. BACKUS, of 116 Duncan Avenue, Jersey City, New Jersey, hereinafter designated as the GRANTEE;

WITNESSETH, that the Grantors, for and in consideration of natural love and affection for the Grantee, and One Dollar ($1.00) and other good and valuable consideration, lawful money of the United States of America, to the Grantors in hand well and truly paid by the Grantees, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents, grant, bargain, sell and convey unto the Grantee forever,

ALL that certain tract or parcel of land and premises, situate, lying and being in the City of Hoboken, in the County of Hudson and State of New Jersey, and which on a certain map entitled "Map of property situated at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots November 1860 by Daniel Ewen and Austin D. Ewen, City Surveyors, New York" duly filed in the Office of the Clerk of said County of Hudson is designated, distinguished and known as lot numbered 13 in block numbered 12 fronting and facing the Southerly side of Paterson Avenue between Jackson and Harrison Streets and being 99 feet 10 inches deep on the Easterly side and 121 feet 3 inches deep on the Westerly side and 25 feet wide in the rear with a slanting frontage of about 32 feet 11 inches on Paterson Avenue aforesaid.

Known as street number 55 Paterson Avenue, Hoboken, N.J., and lot numbered 13, block 12 on the Tax Assessment Map of Hoboken, N.J.

Being the same premises conveyed to John M. Backus by deed of Frederick Charles Keirle, et ux, dated August 17, 1964 and recorded in the Register's Office of Hudson County on August 17, 1964 in Book 2955 of Deeds for said County at Page 565 &c.

The said John M. Backus died intestate on July 24, 1965, leaving him surviving his widow, Gertrude M. Backus, and his children John J. Backus, Mary Ann Fitzgerald, Paul J. Backus,

STATE OF NEW JERSEY)
SS.:
COUNTY OF HUDSON.)

BE IT REMEMBERED, that on this 12TH day of January in the year of our Lord, One Thousand Nine Hundred and Sixty-six before me, the subscriber, personally appeared JOHN J. BACKUS and LORRAINE BACKUS, his wife; MARY ANN FITZGERALD and MICHAEL FITZGERALD, her husband; PAUL J. BACKUS and AGNES BACKUS, his wife; DOROTHY COLONNA and FRANK COLONNA, her husband; GEORGE S. BACKUS and ROSE ANN BACKUS, his wife; LEO R. BACKUS, Single; JOAN B. MOORE and KENNETH MOORE, her husband; ANTHONY D. BACKUS, Single, who, I am satisfied, are the persons named in and who executed the within Instrument, and thereupon they acknowledged that they signed, sealed and delivered the same as their act and deed, for the uses and purposes therein expressed.

George M. Weissman
GEORGE M. WEISSMAN
AN ATTORNEY AT LAW OF NEW JERSEY

STATE OF INDIANA)
SS.:
COUNTY OF Lake)

BE IT REMEMBERED, that on this 4TH day of February in the year of our Lord, One Thousand Nine Hundred and Sixty-six before me, the subscriber, personally appeared GERTRUDE VAITEKUNAS and WALTER VAITEKUNAS, her husband, who, I am satisfied, are the persons named in and who executed the within Instrument, and thereupon they acknowledged that they signed, sealed and delivered the same as their act and deed, for the uses and purposes therein expressed.

Ben A. Bochnowski
Ben A. Bochnowski

NOTARY PUBLIC SEAL INDIANA

My commission expires: Jan. 13th, 1969

103—DEED - BARGAIN AND SALE (COVENANT AGAINST GRANTOR) IND. TO IND. OR CORP. KOT COPYRIGHTED 1965 BY ALL-STATE OFFICE SUPPLY CO. 49 EDISON PLACE, NEWARK, N. J. 07102

Doc. Stamps $ 4.40

Assessor 1

This Indenture,

Made the 29th *day of* March, *19* 66 ,

Between GERTRUDE M. BACKUS, Widow,

residing at 116 Duncan Avenue,
in the City *of* Jersey City, *in the County of*
Hudson *and State of* New Jersey, *herein designated as the Grantors,*

And WILLIAM CURRAN and BARBARA CURRAN, his wife,

residing or located at 53 Paterson Avenue,
in the City *of* Hoboken, *in the County of*
Hudson *and State of* New Jersey, *herein designated as the Grantees;*

ASSESSOR

Amount of Doc. Rev. Stamps 4.40

Witnesseth, that the Grantors, for and in consideration of One ($1.00) Dollar and other valuable consideration

lawful money of the United States of America, to the Grantors in hand well and truly paid by the Grantees, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents grant, bargain, sell and convey unto the Grantees forever,

All that *tract or parcel of land and premises, situate, lying and being in the* City *of* Hoboken, *in the County of* Hudson *and State of New Jersey,* ~~more particularly described as follows:~~ and which on a certain map entitled "Map of property situated at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots November 1860 by Daniel Ewen and Austin D. Ewen, City Surveyors, New York" duly filed in the Office of the Clerk of said County of Hudson is designated, distinguished and known as lot numbered 13 in block numbered 12 fronting and facing the Southerly side of Paterson Avenue between Jackson and Harrison Streets and being 99 feet 10 inches deep on the Easterly side and 121 feet 3 inches deep on the Westerly side and 25 feet wide in the rear with a slanting frontage of about 32 feet 11 inches on Paterson Avenue aforesaid.

1743

Known as street number 55 Paterson Avenue, Hoboken, N.J., and lot numbered 13, block 12 on the Tax Assessment Map of Hoboken, N.J.

Being the same premises conveyed to the Grantor herein by Deed of John J. Backus, et ux, et als, dated January 8, 1966, and recorded on February 8, 1966 in the Register's Office of Hudson County in Book 2990 of Deeds for said County at Page 306 &c.

This conveyance is subject to: (a) such state of facts as an accurate survey and inspection of the premises might disclose; (b) State and municipal laws and ordinances relating to buildings, their construction and usage, and violations, if any; (c) zoning ordinances; (d) restrictions of record, if any; (e) easements of record, if any, and of any pipe, drain or sewer crossing the premises, if any.

1733

ENTERED

Deed

GERTRUDE M. BACKUS, Widow,

TO X 1743

WILLIAM CURRAN and BARBARA CURRAN, his wife,

Dated March 29th 1966

GRANTOR ✓
GRANTEE ✓

R&R: BRAND & MILLER
84 Washington Street
Hoboken, N.J.

✓ 3

RECEIVED
MAR 31 9 02 AM '66

1642293 PAGE 231

Together with all and singular the houses, buildings, trees, ways, waters, profits, privileges, and advantages, with the appurtenances to the same belonging or in anywise appertaining:

Also, all the estate, right, title, interest, property, claim and demand whatsoever, of the said party of the first part, of, in and to the same, and of, in and to every part and parcel thereof,

To have and to Hold all and singular the above described land and premises, with the appurtenances, unto the said party of the second part, his heirs and assigns, to the only proper use, benefit and behoof of the said party of the second part, his heirs, and assigns forever:

And the said William Curran and Barbara Curran, his wife,

for themselves, their heirs, executors and administrators, do covenant, promise and agree to and with the said party of the second part, his heirs and assigns that they have not made, done, committed, executed or suffered any act or acts, thing or things whatsoever, whereby or by means whereof the above mentioned and described premises, or any part or parcel thereof, now are, or at any time hereafter shall or may be impeached, charged or encumbered, in any manner or way whatsoever.

In Witness Whereof, the parties of the first part have set their hands and seals or caused these presents to be signed by its proper corporate officers and caused its proper corporate seal to be hereunto affixed, the day and year first above written.

Signed, Sealed and Delivered in the Presence of

Gemma C. Meyer

Gemma C. Meyer

William Curran (L.S.)
WILLIAM CURRAN

Barbara Curran (L.S.)
BARBARA CURRAN

103—DEED - BARGAIN AND SALE (Covenant as to Grantor's Acts) IND. TO IND. OR CORP. — Plain Language GRVST—1

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DEED

COUNTY OF HUDSON
CONSIDERATION 150,000-00
REALTY TRANSFER FEE 525-00
DATE 8-15-85 BY

This Deed is made on August 9, 1985

BETWEEN

PRIOR H. SCHLENDORF and BARBARA SCHLENDORF, His Wife

whose address is 51-53-55 Paterson Avenue, Hoboken, New Jersey referred to as the Grantor,

AND

V. PONTE & SONS, INC.

whose post office address is 511 Canal Street, New York, New York 10013 referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of ONE HUNDRED FIFTY THOUSAND and no/100-------($150,000.00)----------Dollars. The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of Hoboken
Block No. 12 Lot No. 13 Account No.

☐ No property tax identification number is available on the date of this deed. (Check box if applicable.)

Property. The property consists of the land and all the buildings and structures on the land in the City of Hoboken County of Hudson and State of New Jersey. The legal description is:

AND which on a certain map entitled "Map of property situate at Hoboken, Hudson County, New Jersey belonging to the estate of John G. Coster, deceased, surveyed and laid out into lots November 1860, by Daniel Ewen, Austin D. Ewen City Surveyors New York" and filed in the office of the clerk of the said County of Hudson, are known as part of lots numbered fourteen (14) and fifteen (15) in Block numbered twelve (12) and which said part of said lots is more particularly described as follows to with:

TRACT I

COMMENCING at a point being the southwest corner of Paterson Avenue and Jackson Street as laid down on said map and from said point running thence:

(1) northwesterly along the southerly line of Paterson Avenue sixty-five feet two inches, thence

(2) southerly and parallel with Jackson Street seventy-four feet ten inches to the northerly line of a lot of land, conveyed by the said Ellen H. Conklin and Matthew H. Conklin, the parties of the first part to one Theresa Schubert by deed recorded in Liber 200 of Deeds for said County on page 451, thence

(3) easterly along said northerly line of said Schubert land and parallel with Ferry Street fifty feet to the westerly side or line of Jackson Street, and thence,

(4) northerly and along the said westerly line of Jackson Street thirty-two feet to the corner aforesaid, the place of BEGINNING.

TRACT II

Which on a certain map entitled "Map of property situated at Hoboken Hudson County, New Jersey, belonging to the Estate of John G. Coster deceased, surveyed and laid out into lots November 1860 by Daniel Ewen

PREPARED BY JOSEPH A. NICOLIA, ESQ.

3466 102

DEED

PRIOR H. SCHLENDORF AND BARBARA SCHLENDORF, HIS WIFE

Grantor,

TO

V. PONTE & SONS, INC.

Grantee.

Record and return to:

FOGLIA & ALTIERI
COUNSELLORS AT LAW
25 EAST SALEM STREET
HACKENSACK, NEW JERSEY 07601

No. 71

6639

RECORDED
1985 AUG 15 PM 12:30

3466 104

NC 1645—AFFIDAVIT OF CONSIDERATION
RTF-1 (Rev. 1/1/88)

STATE OF NEW JERSEY
AFFIDAVIT OF CONSIDERATION OR EXEMPTION
(c. 49, P.L. 1968)
or
PARTIAL EXEMPTION
(c. 176, P. L. 1975)

ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N. J. 07016
R V T—1

To Be Recorded With Deed Pursuant to c. 49, P.L. 1968, as amended by c. 225, P.L. 1985 (N.J.S.A. 46:15-5 et seq.)

STATE OF NEW JERSEY
COUNTY OF BERGEN } ss.

FOR RECORDER'S USE ONLY
Consideration $ _____
Realty Transfer Fee $ _____ *
Date 1-15-91 By _____

*Use symbol "C" to indicate that fee is exclusively for county use.

(1) PARTY OR LEGAL REPRESENTATIVE (See Instructions #3, 4 and 5 on reverse side)

Deponent, ANGELO J. PONTE (Name), being duly sworn according to law upon his/her oath deposes and says that he/she is the Secretary of V. PONTE & SONS, INC. (State whether Grantor, Grantee, Legal Representative, Corporate Officer, Officer of Title Co, Lending Institution, etc.)

in a deed dated December 3, 1990, transferring real property identified as Block No. 12

Lot No. 13, 14 located at 51, 53-55 Paterson Avenue, Hoboken, New Jersey (Street Address, Municipality, County)

_____ and annexed hereto.

(2) CONSIDERATION (See Instruction #6)

Deponent states that, with respect to deed hereto annexed, the actual amount of money and the monetary value of any other thing of value constituting the entire compensation paid or to be paid for the transfer of title to the lands, tenements or other realty, including the remaining amount of any prior mortgage to which the transfer is subject or which is to be assumed and agreed to be paid by the grantee and any other lien or encumbrance thereon not paid, satisfied or removed in connection with the transfer of title is $ _____

(3) FULL EXEMPTION FROM FEE Deponent claims that this deed transaction is fully exempt from the Realty Transfer Fee imposed by c.49, P.L. 1968, for the following reason(s): Explain in detail. (See Instruction #7.) Mere reference to exemption symbol is not sufficient.

The amount of consideration is less than ten dollars.

(4) PARTIAL EXEMPTION FROM FEE *NOTE: All boxes below apply to grantor(s) only. ALL BOXES IN APPROPRIATE CATEGORY MUST BE CHECKED. Failure to do so will void claim for partial exemption. (See Instructions #8 and #9)*

Deponent claims that this deed transaction is exempt from the increased portion of the Realty Transfer Fee imposed by c.176, P.L. 1975 for the following reason(s):

a) SENIOR CITIZEN (See Instruction #8)
- ☐ Grantor(s) 62 yrs. of age or over.*
- ☐ One or two-family residential premises
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

b) BLIND (See Instruction #8)
- ☐ Grantor(s) legally blind.*
- ☐ One or two-family residential premises.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

DISABLED (See Instruction #8)
- ☐ Grantor(s) permanently and totally disabled.*
- ☐ One or two-family residential premises.
- ☐ Receiving disability payments.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ Not gainfully employed.
- ☐ No joint owners other than spouse or other qualified exempt owners.

*IN THE CASE OF HUSBAND AND WIFE, ONLY ONE GRANTOR NEED QUALIFY.

c) LOW AND MODERATE INCOME HOUSING (See Instruction #8)
- ☐ Affordable According to H.U.D. Standards.
- ☐ Meets Income Requirements of Region.
- ☐ Reserved for Occupancy.
- ☐ Subject to Resale Controls.

d) NEW CONSTRUCTION (See Instruction #9)
- ☐ Entirely new improvement.
- ☐ Not previously used for any purpose.
- ☐ Not previously occupied.

Deponent makes this Affidavit to induce the County Clerk or Register of Deeds to record the deed and accept the fee submitted herewith in accordance with the provisions of c. 49, P.L. 1968.

Subscribed and Sworn to before me
this 3
day of December, 19 90

Joseph A. Foglia
Attorney at Law
State of New Jersey

Name of Deponent (type or print)

2 Hope St., Jersey City, NJ
Address of Deponent

V. PONTE & SONS, INC.
Name of Grantor (type or print)

2 Hope St., Jersey City, NJ
Address of Grantor at Time of Sale

FOR OFFICIAL USE ONLY This space for use of County Clerk or Register of Deeds.
Instrument Number 002772 County _____
Deed Number _____ Book _____ Page _____
Deed Dated 12-3-90 Date Recorded 1-15-91

IMPORTANT - BEFORE COMPLETING THIS AFFIDAVIT, PLEASE READ THE INSTRUCTIONS ON THE REVERSE SIDE HEREOF.
This form is prescribed by the Director, Division of Taxation in the Department of the Treasury, as required by law, and may not be altered or amended without the approval of the Director.
ORIGINAL — White copy to be retained by County.
DUPLICATE — Yellow copy to be forwarded by County to Division of Taxation on partial exemption from fee (N.J.A.C. 18:16—8.12).
TRIPLICATE — Pink copy is your file copy.

WHITE AND YELLOW COPIES MUST BE SUBMITTED WITH DEED TO COUNTY RECORDING OFFICER

BK4365PG271

DEED

Dated: December 3 , 1990

V. PONTE & SONS, INC.

Grantor.

TO

PONTE EQUITIES, INC.

Grantee.

Record and return to:

LAW OFFICE OF JOSEPH A. FOGLIA
171 E. Ridgewood Ave.
Ridgewood, New Jersey 07450

BK4365PG273

[illegible] sealed and delivered
in the presence of } Caroline [illegible] Rice (Seal)
C. [illegible] Slater } [illegible] Ella [illegible] (Seal)
[illegible] (Seal)
Lizzie [illegible] (Seal)
Kitty J. [illegible] (Seal)
Susie M. Smith (Seal)
Thos. M. Rice (Seal)
Mary A. Rice (Seal)
[illegible] E. Rice (Seal)
Mary F. [illegible] (Seal)

State of New York } ss.
County of Ulster } On this [illegible] day of May in the year one thousand nine hundred and three before me the subscriber, a Commissioner of Deeds in and for said County, personally appeared Caroline Rice, [illegible] [illegible] Lizzie [illegible] Kitty J. [illegible] Susie M. Smith, Thomas M. Rice and Mary A. Rice [illegible] E. Rice County of [illegible] to me known to be the persons described in and who executed the within instrument and they severally acknowledged that they signed sealed and delivered the same as their voluntary act and deed for the uses and purposes therein mentioned.

[illegible] the said [illegible] E. [illegible] [illegible] Lizzie [illegible] [illegible] [illegible] [illegible] [illegible] on a separate examination by me [illegible] [illegible] that they signed sealed and delivered the same as their voluntary act and deed freely without any fear threat or compulsion of their said husbands.

C. [illegible] Slater
Commissioner of Deeds

Recorded May 25 1903 at [illegible] [illegible]

[illegible] [illegible] 1903 Frederick [illegible] & wife to [illegible] Deed [illegible]
New [illegible] Dated May [illegible] 1903

This Indenture made the twenty [illegible] day of May in the year one thousand nine hundred and three between Frederick [illegible] and Mary M. his wife of the City of [illegible] Ulster County and State of New York

836-312 5/25/1903

County Kilkenny Company

Being the same premises conveyed by the said Frederick Collingwood & Thomas Emmet and Thomas Emmet by deed bearing date the 1st day of October 1877 adjudicated in the Registry office of said Incumbered Estates Court in Lib. 68 of Rental page 363 &c.

Together with all and singular the tenements hereditaments and appurtenances thereto belonging or appertaining and the reversions remainders rents and profits thereof.

And also all the estate right title interest claim and right of claim property possession and demand whatsoever as well in law as in equity of the said parties of the first part in and to the above described premises and every part and parcel thereof with the appurtenances.

To hold and have all and singular the above mentioned premises together with the appurtenances unto the said parties of the second part their heirs and assigns to the use of the said parties of the second part their heirs and assigns forever.

And the said Frederick Collingwood for himself his heirs executors and administrators doth covenant promise and agree with the said parties of the second part their heirs and assigns that the said Frederick Collingwood at the time of the sealing and delivery of these presents is lawfully rightfully and absolutely seized of an indefeasible estate of inheritance in fee simple free and clear and discharged of and from all former and other gifts grants bargains and sales and encumbrances whatsoever.

And that the said parties of the second part their heirs and assigns shall and may at all times hereafter peaceably and quietly have hold and enjoy forever and enjoy the above granted premises and every part and parcel thereof with the appurtenances without any let suit or hindrance whatsoever of the said parties of the first part their heirs or assigns or any other person or persons lawfully claiming or to claim the same.

And that the same are free and clear and clearly acquitted and discharged of and from all former and other gifts grants bargains sales leases mortgages and encumbrances whatsoever made or suffered by the said parties of the first part

And also that the said parties of the first part

and he hereby further acknowledge that the signed
and delivered the same for voluntary and deed
freely and without any fraud or compulsion of from
said husband

Alfred B. Dayton
Notary Public of New Jersey

Recorded in the office of Recorder Mar 20 1900 at 3 P.M. Liber 1061

Bk No 1402 Frederick A. Kiernan et ux
To
Johann R.W. Dunsky

Deed
Dated
Mar 17 1900

This Indenture made the twentieth day of March in the year of our Lord one thousand nine hundred and three between Frederick A. Kiernan and Anna M. Kiernan his wife of the town of Kearny in the county of Hudson and state of New Jersey of the first part and Johann R.W. Dunsky of the city of New York in the county of New York and state of New York of the second part

Witnesseth that the said parties of the first part for and in consideration of one dollar and other valuable consideration lawful money of the United States of America to them in hand well and truly paid by the said parties of the second part at or before the sealing and delivery of these presents the receipt whereof is hereby acknowledged and the said parties of the first part hereby mutually covenant and agree and each for himself or herself and for his heirs and assigns forever

do hereby grant bargain sell alien release enfeoffment and confirm unto the said parties of the second part and to his heirs and assigns forever

all that tract or parcel of land and premises hereinafter particularly described situate lying and being in the town of Kearny in the county of Hudson and state of New Jersey

Beginning in the northerly line of Magnolia Avenue at a point therein distant one hundred and thirty nine feet and three inches (139 3") northerly from the northerly line of Hunter Street and intersected by the westerly line of Kearny Avenue from thence running (1) northerly at right angles to Magnolia Avenue and along the rear of lots eighteen (18) seventeen (17) sixteen (16) fifteen (15) fourteen (14) and thirteen (13) on the map hereinafter mentioned one hundred and

sixty-five (65) feet to the place of Beginning.

Subject to the right of way of the North Hudson County Railway Company.

TO HAVE AND TO HOLD said premises with the appurtenances, unto the said grantee her heirs and assigns forever.

And the said Marie Koschel, widow, for herself and her heirs and assigns, does COVENANT:

1. That the title to said premises is vested in fee simple absolute in the said Marie Koschel, widow,

2. That she has the right and authority to convey the said premises to the said Louise Stenken.

3. That the grantee shall have peaceable and quiet possession of the said premises free from all encumbrances, except unpaid taxes and water rents now liens against said premises.

4. That the same are now free and clear of all encumbrances whatsoever, except unpaid taxes and water rents now liens against said premises.

5. That the grantor will execute such further assurances and conveyances of the said land as may be reasonably required.

6. That she will WARRANT and DEFEND the premises hereby conveyed against all persons lawfully claiming the same.

IN WITNESS WHEREOF, the said party of the first part has hereunto set her hand and seal the day and year first above written.

Signed, sealed and delivered
in the presence of

O. J. PELLET — MARIE KOSCHEL (L.S.)

No revenue stamps required.

STATE OF NEW JERSEY COUNTY OF HUDSON SS: BE IT REMEMBERED, That on this 4th day of January in the year of Our Lord One Thousand Nine Hundred and Thirty-four, before me, the subscriber, a Master in Chancery of New Jersey, personally appeared MARIE KOSCHEL, Widow, who, I am satisfied, is the grantor mentioned in the within Instrument to whom I first made known the contents thereof, and thereupon she acknowledged that she signed, sealed and delivered the same as her voluntary act and deed, for the uses and purposes therein expressed.

O. J. PELLET
MASTER IN CHANCERY OF NEW JERSEY.

Received in the office and recorded February 13th, 1934. @ 2:08 P. M. #703.

oooooooooooooo L. C. D. oooooooooooo
oooooooooooooo

MARIE KOSCHEL (WIDOW) — DEED
TO — DATED
CONSOLIDATED PROPERTIES, INC. — JANUARY 4th, 1934.

THIS INDENTURE, Made the 4th day of January, in the year of our Lord One Thousand Nine Hundred and thirty-four.

BETWEEN MARIE KOSCHEL, Widow, of the City of New York in the County of New York and State of New York, party of the first part;

ly side of Harrison Street fifty eight (58) feet four inches southerly from the southeasterly corner of Harrison Street and Paterson Avenue and running thence at right angles to Harrison Street fifty (50) feet to the westerly side of lot number ten (10) in said Block thence southerly parallel with Harrison Street sixty-five (65) feet, thence westerly along the northerly side of lot number seven (7) in said Block fifty (50) feet to the easterly side of Harrison Street and thence northerly along the easterly side of Harrison Street sixty-five (65) feet to the place of Beginning. Subject to the right of way of the North Hudson County Railway Company.

BEING also known as Nos. 63 - 65 Paterson Avenue, Hoboken, N.J.

BEING the same premises conveyed to Louise Stenken by Marie Koschel, widow, by deed dated January 4, 1934 and recorded February 13, 1934 in the Register's Office of Hudson County in Book 1826 of Deeds for said County, on page 599.

SUBJECT to existing tenancies or to the rights of any person or persons now in possession of the whole or any part of the premises; subject also to such state of facts as an accurate survey would disclose; to zoning and other municipal ordinances and to restrictions and covenants of record.

State of New Jersey, County of Hudson } ss: Book 2312 Page 446

Be it Remembered, that on the 2nd day of June, in the year of our Lord One Thousand Nine Hundred and Forty-eight, before me the subscriber, a Master in Chancery of New Jersey,

personally appeared CHARLES STENEKEN, SR. and OTMAR J. PELLET as Executors of the Last Will and Testament of Louise Stenken, deceased,

who, I am satisfied, are the grantors mentioned in the within instrument, to whom I first made known the contents thereof, and thereupon they acknowledged that they signed, sealed and delivered the same as their voluntary act and deed, for the uses and purposes therein expressed.

Abr. M. Mickelsohn
A Master in Chancery of New Jersey

COMPARED INDEXED ENTERED

Fee 704 [illegible]

ASSESSOR 3

Deed. 4508

CHARLES STENEKEN, SR. and OTMAR J. PELLET, as Executors of the Last Will and Testament of Louise Stenken, deceased,

TO

ANTHONY CAPRIOLA,

Indexed under County Block No. 1743

Dated, June 2nd, 1948.

Received in the Office of the County of on the day of A. D. 19 , at o'clock in the noon and Recorded in Book of DEEDS for said County, on page

R L R

LESTER J. KRAMER
77 RIVER ST.
HOBOKEN, N.J.

recorded in the Office of the Register of the County of Hudson.

SUBJECT to existing tenancies or to the rights of any person or persons now in possession of the whole or any part of the premises; subject also to such state of facts as an accurate survey would disclose; to zoning and other municipal ordinances and to restrictions and covenants of record.

State of New Jersey, } ss.
County of

DBK 2312 PAG 450

Be it Remembered, that on this day of in the Year One Thousand Nine Hundred and before me, the subscriber, a personally appeared

who, being by me duly sworn on h oath, doth depose and make proof to my satisfaction, that he is the of the Grantor named in the within instrument; that is the President of said corporation; that the execution, as well as the making of this Instrument, has been duly authorized by a proper resolution of the board of directors of said corporation; that deponent well knows the corporate seal of said corporation; and the seal affixed to said Instrument is such corporate seal and was thereto affixed and said Instrument signed and delivered by said President, as and for h voluntary act and deed and as and for the voluntary act and deed of said corporation, in presence of deponent, who thereupon subscribed h name thereto as witness.

Sworn to and subscribed before me, }
at
the date aforesaid

Deed 4509

ANTHONY CAPRIOLA and MARY CAPRIOLA, his wife,

TO

JOSEPH A. BUTLER

Indexed under County Block No. 7743

Dated June 10th, 19 48.

Recorded in the Office of the County of on the day of A.D., 19 at o'clock in the noon and Recorded in Book of DEEDS for said County, on page

Record & Return to:
LESTER J. KRAMER, ESQ.,
77 River Street
Hoboken, N. J.

State of New Jersey, } ss.
County of HUDSON

Be it Remembered, That on this 10th day of June, in the year One Thousand Nine Hundred and Forty-Eight, before me the subscriber, a Master in Chancery of New Jersey, personally appeared ANTHONY CAPRIOLA and MARY CAPRIOLA, his wife,

who, I am satisfied, are the grantors mentioned in the within Instrument, to whom I first made known the contents thereof, and thereupon they acknowledged that they signed, sealed and delivered the same as their voluntary act and deed, for the uses and purposes therein expressed.

Lester J. Kramer
A Master in Chancery of New Jersey.

SUBJECT to the right of way of the North Hudson County Railway Company. SUBJECT to existing tenancies, to such a state of facts as an accurate survey would disclose, to zoning and other municipal ordinances, to restrictions and covenants of record, if any, and to any and all violations of state, county, city statutes, ordinances, codes, rules and regulations.

Together with all and singular the houses, buildings, trees, ways, waters, profits, privileges, and advantages, with the appurtenances to the same belonging or in anywise appertaining;

Also, all the estate, right, title, interest, property, claim and demand whatsoever, of the said party of the first part, of, in and to the same, and of, in and to every part and parcel thereof.

To have and to hold all and singular the above described land and premises, with the appurtenances, unto the said party of the second part, Loretta Butler, widow, her *heirs and assigns, to the only proper use, benefit and behoof of the said party of the second part,* her *heirs, and assigns forever;*

RECORDED
RECEIVED
CLERK'S OFFICE
HUDSON COUNTY
1956 OCT 9 AM 10:59
JERSEY CITY
WILLIAM L. JOHNSTON
REGISTER

In Witness Whereof, *the parties of the first part have set their hands and seals ~~as evidence thereof, to be signed by its proper corporate officers and caused its proper corporate seal to be hereunto affixed,~~ the day and year first above written.*

~~Signed, Sealed and Delivered~~ }
~~in the Presence of~~ }

Albert J. Hordes

Albert J. Hordes

(consideration less
then $100.00)

Joseph A. Butler (L.S.)
Joseph A. Butler

Ethel Butler (L.S.)
Ethel Butler

STATE OF NEW JERSEY)
:ss.
COUNTY OF HUDSON)

BE IT REMEMBERED that on this 6th day of October 1956, before me, the subscriber, an Attorney at Law of New Jersey, personally appeared Joseph A. Butler and Ethel Butler, his wife, of Hoboken, the persons named in the foregoing deed, and I having first made known to them the contents thereof, they acknowledged that they signed, sealed and delivered the same as their voluntary act and deed for the uses and purposes therein expressed.

Albert J. Hordes
Albert J. Hordes
Attorney at Law of New Jersey

103—DEED, BARGAIN AND SALE (Covenant as to Grantor's Acts) IND. TO IND. OR CORP. — Plain Language G VST-1

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DEED

005098

Prepared by: (Print signer's name below signature)
PATRICK DI MARTINI, Esq.

This Deed is made on June 7, 1989,

BETWEEN LORETTA BUTLER, widow

ASSESSORS COPY

whose address is 65 Paterson Avenue, City of Hoboken, County of Hudson and State of New Jersey, referred to as the Grantor.

AND ANGELO RATTO and VINCENZA RATTO, his wife

whose post office address is to be 65 Paterson Avenue, Hoboken, New Jersey 07030 referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of ONE HUNDRED SIXTY-FIVE THOUSAND and 00/00 ($165,000.00) DOLLARS

The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of Hoboken
Block No. 12 Lot No. 8 Account No.

☐ No property tax identification number is available on the date of this deed. (Check box if applicable.)

Property. The property consists of the land and all the buildings and structures on the land in the City of Hoboken County of Hudson and State of New Jersey. The legal description is:

WHICH ARE KNOWN AND DISTINGUISHED upon a certain map entitled, "Map of property situate at Hoboken, Hudson County, New Jersey, belonging to the estate of John G. Coster, deceased, surveyed and laid out into lots November 1860 by Daniel Ewen and Austin D. Ewen, City Surveyors, New York", filed in the office of the Clerk (now Register) of said County of Hudson as parts of lots numbers eight (8) and nine (9) in block number twelve on said Map, being that portion of said lots lying southerly of a line beginning at the easterly side of Harrison Street fifty-eight (58) feet and four (4) inches southerly from the southeasterly corner of Harrison Street and Paterson Avenue and running thence at right angles to said easterly side of Harrison Street easterly to the easterly line of lot number nine (9) in said block, and which such portion of lots as conveyed taken together, are bounded and described as follows: Beginning at a point on the easterly side of Harrison Street fifty-eight (58) feet four inches southerly from the southeasterly corner of Harrison Street and Paterson Avenue and running thence at right angles to Harrison Street fifty (50) feet to the westerly side of lot number ten (10) in said block, thence southerly parallel with Harrison Street sixty-five (65) feet, thence westerly along the northerly side of lot number seven (7) in said block fifty (50) feet to the easterly side of Harrison Street, and thence northerly along the easterly side of Harrison Street sixty-five (65) feet to the place of beginning.

BEING the same land and premises commonly known by street numbers 63-65 Paterson Avenue, Hoboken, New Jersey.

BEING the same premises conveyed to Loretta Butler, widow, by deed of Joseph A. Butler and Ethel Butler, his wife, dated October 6, 1956 and recorded in the Office of the Register of Hudson County on October 9, 1956 in Book 2692 of Deeds for said county at page 467.

SAID PREMISES may also be described in accordance with a survey made by Arthur F. Mead, Jr. dated February 7, 1989 as follow:

BEGINNING at a point in the easterly line of Harrison Street distant thereon 58.33 feet south of its intersection with the southerly line of Paterson Avenue, and running thence:

(1) S 70 deg. 00 min. E, 50.0 feet, thence:
(2) S 20 deg. 00 min. W, 65.0 feet, thence:
(3) N 70 deg. 00 min. W, 50.0 feet, to the easterly line of Harrison Street, thence:
(4) N 20 deg. 00 min. E, 65.0 feet along the easterly line of Harrison Street to the point and place of BEGINNING.

Consideration $165,000.00 R.F. 187.50
Realty Transfer Fee 165.00 Rec. 4.00
Addl. Fee 6/1/89 22.50
Addl. N.C. Amt. Rec. 211.50
By DD Total $ 211.50

BK4156PG290

Promises by Grantor. The Grantor promises that the Grantor has done no act to encumber the property. This promise is called a "covenant as to grantor's acts" (N.J.S.A. 46:4-6). This promise means that the Grantor has not allowed anyone else to obtain any legal rights which affect the property (such as by making a mortgage or allowing a judgment to be entered against the Grantor).

Signatures. The Grantor signs this Deed as of the date at the top of the first page.

Witnessed by:

Loretta Butler (Seal)
LORETTA BUTLER

(Seal)

PATRICK DI MARTINI

STATE OF NEW JERSEY, COUNTY OF HUDSON SS.:

I CERTIFY that on June 7, 1989.

LORETTA BUTLER, widow, personally came before me and acknowledged under oath, to my satisfaction, that this person (or if more than one, each person):

(a) is named in and personally signed this Deed;
(b) signed, sealed and delivered this Deed as his or her act and deed; and
(c) made this Deed for $165,000.00 as the full and actual consideration paid or to be paid for the transfer of title. (Such consideration is defined in N.J.S.A. 46:15-5.)

(Print name and title below signature)
PATRICK DI MARTINI
An Attorney at Law of New Jersey

001873

RECEIVED

Deed

97 FEB 24 PM 2:08

Barbara A. Hanelly
HUDSON COUNTY
REGISTER OF DEEDS

This Deed is made on January 31, 1997
BETWEEN
ANGELO RATTO and VINCENZA RATTO, h/w

whose post office address is 5 Church Towers, 10M, Hoboken, New Jersey

referred to as the Grantor,
AND

A COPY OF THIS DEED HAS BEEN SENT TO ASSESSOR'S OFFICE 3

JENN-SHOOU VINCENT YOUNG

whose post office address is about to be 63-65 Paterson Avenue, Hoboken, New Jersey.

referred to as the Grantee.
The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

1. Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property (called the "Property") described below to the Grantee. This transfer is made for the sum of ONE HUNDRED TWENTY-FIVE THOUSAND AND 00/100 ($125,000.00) DOLLARS
The Grantor acknowledges receipt of this money.

2. Tax Map Reference. (N.J.S.A. 46:15-1.1) Municipality of Hoboken
Block No. 12 Lot No. 8 Account No.
☐ No property tax identification number is available on the date of this Deed. (Check box if applicable.)

3. Property. The Property consists of the land and all the buildings and structures on the land in the City of Hoboken County of Hudson and State of New Jersey. The legal description is:

☒ Please see attached Legal Description annexed hereto and made a part hereof (check box if applicable).

BEING the same premises conveyed to the Grantors herein by Deed from Loretta Butler, widow dated June 7, 1989, and recorded in the Hudson County Register's Office on June15, 1989 in Deed Book 4156, Page 290.

CONSIDERATION:$ 125000.00 EXEMPT CODE:

	COUNTY	STATE	W.P.M.R.F	TOTAL
TJC	125.13	312.37	.00	437.50

DATE- 2/24/1997

Prepared by: (print signer's name below signature)

MICHAEL A. MONGIELLO, ESQ.

(For Recorder's Use Only)

Application Number [illegible]

SCHEDULE A-4

A COPY OF THIS [illegible] HAS BEEN SENT TO [illegible]

City of Hoboken, County of Hudson, State of New Jersey

BEGINNING at a point in the easterly line of Harrison Street distant thereon 58.33 feet south of its intersection with the southerly line of Paterson Avenue, and running thence:

1) South 70 degrees 00 minutes East, 50.00 feet; thence

2) South 20 degrees 00 minutes West, 65.00 feet; thence

3) North 70 degrees 00 minutes West, 50.00 feet to the easterly line of Harrison Street; thence

4) North 20 degrees 00 minutes East, 65.00 feet along the easterly line of Harrison Street to the point and place of BEGINNING.

Being further described in accordance with a survey made by P.L. Caulfield dated January 13, 1997:

BEGINNING at a point in the easterly line of Harrison Street, distant 58.33 feet southerly from the intersection formed by the southerly line of Paterson Avenue with the easterly line of Harrison Street and running thence:

1) South 76 degrees 56 minutes East a distance of 50.00 feet to a point; thence

2) South 13 degrees 04 minutes West and parallel to Harrison Street a distance of 65.00 feet to a point; thence

3) North 76 degrees 56 minutes West a distance of 50.00 feet to a point in the easterly line of Harrison Street; thence

4) North 13 degrees 04 minutes East and along the easterly line of Harrison Street a distance of 65.00 feet to a point, said point being the point or place of BEGINNING.

BEING known and designated as a portion of Lots 8 and 9 in Block 12 on a certain map entitled "Map of Property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased" which map was filed in the Office of the Hudson County Register on August 6, 1862 as Map 846.

BEING also known and designated as Lot 8 in Block 12 on the official Tax Map of the City of Hoboken.

AD05-156

SCHEDULE A

DESCRIPTION

All that certain tract of land situated and lying in the City of Hoboken, the County of Hudson, the State of New Jersey and more particularly described as follows:

BEGINNING at a point in the easterly line of Harrison Street, distant 58.33 feet southerly from the intersection formed by the southerly line of Paterson Avenue with the easterly line of Harrison Street; and running thence

1. South 76 degrees 56 minutes East a distance of 50.00 feet to a point; thence
2. South 13 degrees 04 minutes West and parallel to Harrison Street a distance of 65.00 feet to a point; thence
3. North 76 degrees 56 minutes West a distance of 50.00 feet to a point in the easterly line of Harrison Street; thence
4. North 13 degrees 04 minutes East and along the easterly line of Harrison Street a distance of 65.00 feet to the point and place of BEGINNING.

FOR INFORMATION ONLY:
Commonly known as: 63-65 Paterson Avenue, Hoboken, NJ
Block 12 Lot 8 as shown on
Tax Map of the City of Hoboken

BEING known and designated as a portion of Lots 8 and 9 in Block 12 on a certain map entitled "Map of Property situate at Hoboken, Hudson County, NJ, belonging to the Estate of John G. Coster, deceased," which map was filed in the Hudson County Register's Office on 8/6/1862 as Map No. 846.

End Schedule A Description

4. Promises by Grantor. The Grantor promises that the Grantor has done no act to encumber the Property. This promise is called a "covenant as to grantors' acts" (N.J.S.A. 46:4-6). This promise means that the Grantor has not allowed anyone else to obtain any legal rights which affect the Property (such as by making a mortgage or allowing a judgment to be entered against the Grantor).

5. Signatures. The Grantor signs this Deed as of the date at the top of the first page. (Print name below each signature.)

Witness:

Bernard J. Berkowitz
Attorney at Law of NJ

JENNSHOOU VINCENT YOUNG

STATE OF NEW JERSEY, COUNTY OF MORRIS , SS:
I CERTIFY that on August 5, 2005

JENNSHOOU VINCENT YOUNG

personally came before me and stated to my satisfaction that this person (or if more than one, each person): (a) was the maker of this Deed; (b) executed this Deed as his or her own act; and (c) made this Deed for $680,000.00 as the full and actual consideration paid or to be paid for the transfer of title. (Such consideration is defined in N.J.S.A. 46:15-5.)

Bernard J. Berkowitz, Attorney at Law of NJ

RECORD AND RETURN TO:

Michael A. Mongiello, Esq.
Mongiello& Mongello
70 Hudson Street
Hoboken, NJ 07030

and will Warrant and by these presents forever Defend
In Witness Whereof the said parties of the first part have hereunto set their hands and seals the day and year first above written.

Sealed and delivered in the presence of John H.Nelson } John McCool (LS) Sarah T.McCool (LS)

STATE OF NEW YORK } SS
COUNTY OF NEW YORK } Be it remembered that on this 12th,day of December 1874 before the Subscriber a Commissioner for the State of New Jersey for taking acknowledgments and proof of Deeds personally came John McCool and Sarah T.his wife known to me to be the grantors in the within Conveyance named and the contents thereof being by me first made known to them they acknowledged that they signed sealed and delivered the same as their voluntary act and deed and the said Sarah T.McCool being by me examined privately. and apart from her husband acknowledged that she signed sealed and delivered the same freely without anyfear threat or Compulsion of her said husband.
All of which I certify under my hand and Official Seal the day and year aforesaid.

Mervin J.Merchant (SEAL)
Commissioner for New Jersey in New York 7 Warren Street
Received in the Office and Recorded April 9th,A.D .1877 at 3:10 o'clock P.M.

M.C.

CHARLES E.BUTTER Et ux TO THE NORTH HUDSON COUNTY RAILWAY COMPANY	DEED DATED FEBRAUARY 1st,1875

This Indenture made the first day of February in the year One thousand Eight hundred and seventy six Between Charles E. Butter of the City of New York and Susan R.S. his wife of the first part and The North Hudson County Railway Company of the State of New Jersey of the second part. Witnesseth that the said parties of the first part for and in consideration of the sum of One hundred Dollars lawful money of the United States of America to them in hand paid by the said party of the second part at or before the ensealing and delivery of these presents the receipt whereof is hereby acknowledged have bargained and sold and by these presents Do grant and convey unto the said party of the second part and to its successors and assigns forever. All that part or portion of that certain
.....

RECEIPTED AND COMPARED
1/2 1840
BY M.G. COMPARER
1/2 1840
BY M.G. COMPARER

unobstructed as a sidewalk in front of the said portion of said lot number ten which is retained by the said Charles E.Butler.

Together with all and singular the appurtenances thereunto belonging or appertaining and also all the Estate right title and interest as well in law as in Equity of the said parties of the first part of in or to the same. To have and to hold all and singular the above mentioned and described premises together with the appurtenances unto the said party of the second part its successors and assigns forever. Subject as aforesaid and subject to any taxes or assessments upon said premises and the said Charles E.Butler for himself his heirs Executors and administrators doth hereby covenant promise and agree to and with the said party of the second part its successors and assigns that he hath not made done committed executed or knowingly suffered any act or acts thing or things whatsoever whereby or by means whereof the above mentioned and described premises or any part or parcel thereof now are or at any time hereafter shall or may be impeached charged or incumbered in any manner or way whatsoever.

In Witness Whereof the said parties of the first part have hereunto set their hands and seals the day and year first above written

Sealed and delivered in the presence of F.B.Jennings } Charles E. Butler (LS)
} Susan R.S Butler (LS)

STATE OF NEW YORK }
}SS
CITY AND COUNTY OF NEW YORK. } Be it remembered that on this Eighth day of March A.D.1877 before me the subscriber Frederick B.Jennings a Notary Public in and for the City and County of New York duly commissioned and sworn and dwelling in said City personally appeared Charles E.Butler and Susan R.S. Butler his wife who I am satisfied are the grantors named in and who executed the foregoing Instrument and I having first made known to them the contents thereof they did thereupon severally acknowledge before me that they signed sealed and delivered the same as their voluntary act and deed for the uses and purposes therein mentioned and the said Susan R.S.Butler wife of the said Charles E.Butler being by me privately examined separate and apart from her husband did further acknowledge that she signed sealed and delivered the same as her voluntary act and deed freely without any fear threat or compulsion of or from her said husband. In Witness Whereof I have hereunto set my hand and affixed my official seal the day and year last above written**********

RECORDED AND COMPARED

the sealing and delivery of these presents, are not encumbered by any mortgage, judgment or limitation, or by any encumbrance whatsoever, by which the title of the said party of the second part, hereby made or intended to be made, for the above described land and premises, can or may be changed, charged, altered or defeated in any way whatsoever:

AND ALSO, that the said party of the first part now has good right, full power and lawful authority, to grant, bargain, sell and convey the said land and premises in manner aforesaid; AND ALSO, that the said party of the first part, will warrant, secure, and forever defend the said land and premises unto the said party of the second part his heirs and assigns, forever, against the lawful claims and demands of all and every person or persons, freely and clearly freed and discharged of and from all manner of encumbrance whatsoever. IN WITNESS THEREOF, the said party of the first part hath caused its corporate Seal to be hereto affixed and attested by its Secretary and these presents to be signed by its President, the day and year first above written.

ATTEST Fred L. Trotter, Secretary.

Duncan B. & L. Association of JerseyCity Incorporated Dec.15th 1900

DUNCAN BUILDING AND LOAN ASSOCIATION of Jersey City, N.J.

By William M. Obergfell, President.

(U. S. R. S. $2.00)

STATE OF NEW JERSEY, }
COUNTY OF HUDSON, } SS:

BE IT REMEMBERED, That on this Sixth day of September, Nineteen Hundred and Thirty-nine, before me, the subscriber, an Attorney at Law of New Jersey, personally appeared Fred Trotter and made proof to my satisfaction that he is the Secretary of Duncan Building and Loan Association of Jersey City, N.J. the Grantor named in the foregoing Instrument; that he well knows the corporate seal of said corporation; that the seal affixed to said Instrument is the corporate seal of said corporation; that the said seal was so affixed and the said Instrument signed and delivered by William M. Obergfell, who was at the date thereof the President of said corporation, in the presence of this deponent, and said President, at the same time acknowledged that he signed, sealed and delivered the same as h— voluntary act and deed, and as the voluntary act and deed of said corporation, and that deponent, at the same time, subscribed his name to said Instrument as an attesting witness to the execution thereof.

Sworn and subscribed before me, at Jersey City, N.J. the date aforesaid.

Fred L. Trotter, Secretary.

Mitchell T. Bradley,
Attorney at Law of New Jersey.

Received in the office and recorded Sept. 6, 1939 at 3:05 P. M. #5671

E. N.

COMPARED

BLOCK #1743

IN CHANCERY OF NEW JERSEY.
124/254

Between

THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN, a municipal corporation of the State of New Jersey, Complainant,

-and-

JOSEPH SCHENCK, et als, Defendants.

On Bill to Foreclose Right of Redemption, Etc.

FINAL DECREE

This cause being opened to the Court by Horace L. Allen, the solicitor for and of counsel with the complainant, whereupon, and upon reading a report, on file, made by Nathan

any right, title or interest in, lien or claim upon said lands and premises above described or any part thereof.

Respectfully advised, LUTHER A. CAMPBELL
C.

I, EDW. L. WHELAN, Clerk of the Court of Chancery of the State of New Jersey, the same being a Court of Record, do hereby certify that the foregoing is a true copy of the Final Decree, Filed Sep 5, 1939, in the cause wherein THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN, a municipal corporation of the State of New Jersey, is complainant, and JOSEPH SCHENCK, et als., are defendants, now on the files of my office. IN TESTIMONY WHEREOF, I have hereto set my hand and affixed the seal of said Court, at Trenton, this 5th day of September, A.D. Nineteen hundred and thirty-nine.

(Chancery Seal)

EDW. L. WHELAN,
Clerk.

(No Rev. Stamps)

Received in the office and recorded Sept. 6, 1939 at 3:17 P. M. #5672

E. N.

IN CHANCERY OF NEW JERSEY.
124/338

Between THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN, a municipal corporation of the State of New Jersey, Complainant, -and- Camillo Sgroi (also known as Camillo Sgrio) etc. et als. Defendants.	On Bill to Foreclose Right of Redemption, Etc. FINAL DECREE

This cause being opened to the Court by Horace L. Allen, the solicitor for and of counsel with the complainant, whereupon, and upon reading a report, on file, made by Milton G. Hanfield one of the Masters of this Court, bearing date on the 25th day of July, 1939, from which it appears that there was due to the complainant, by virtue of its certificate of tax sale and for subsequent taxes, on the day of the making of the said report, the sum of $4,860.46 and that the said Master has appointed Thursday the 24th day of August 1939, at ten o'clock in the forenoon at his office 88 Hudson Street in the City of Hoboken, in the County of Hudson, as the time and place where and when the defendant should make redemption and pay to the complainant the sum of $4,860.46 together with its taxed costs of suit, which report was on the First day of August, 1939, duly ratified and confirmed by this Court;

And it further appearing that notice of the time and place fixed by said Master in and by his said report aforesaid, when and where the defendants should make redemption and pay to the complainant the amount due it as aforesaid, has been duly given to the defendants in the manner as directed and prescribed by the decree of this Court confirming said Master's report aforesaid; Whereupon and upon reading a certain other report on file, made by the said Master, bearing date the 24th day of August, 1939, by which it appears that the said Master and the complainant's solicitor duly attended at the time and place so appointed as aforesaid, and that neither the said defendants, nor any other person or persons in their behalf as aforesaid, have paid or offered to pay to said complainant the sum of money to wit, $4,860.46 so found and reported to be due to said complainant, together with its taxed

Mayor and Council of the City of Hoboken by virtue of a Final Decree bearing date September 5, 1939, entered in the Court of Chancery of New Jersey in the matter of The Mayor and Council of the City of Hoboken, a municipal corporation of the State of New Jersey, Complainant, and Joseph Schenck, et als., Defendants, which said Final Decree was on September 6, 1939 recorded in the Office of the Register of the County of Hudson, in Book 1954 of Deeds, on page 399 etc.

The Party of the First Part reserves to itself the right to demand, collect, sue for and receive all unpaid rents due from the tenants now in possession of the premises above described, and which accrued and were payable by said tenants prior to the date hereof.

Subject to such state of facts as an accurate survey would disclose, to zoning ordinances, easements and restrictions of record if any, tenement violations and existing tenancies, if any; also to taxes, assessments, water rents and other municipal liens accruing after the date hereof.

And it is covenanted and agreed by and between the parties hereto that it is the intention of the parties hereto that the grantor herein named conveys hereby only such right, title and interest in and to the lands and premises described in this deed as was acquired by the grantor through municipal tax sale proceedings and decree of the Court of Chancery of New Jersey relating thereto, or deed from the former owner, as the case be, and that the grantee in this deed named ~~herein~~ her heirs, executors, administrators or assigns, ~~[illegible]~~ shall have no recourse at law or in equity against the grantor for any imperfections of title or otherwise, if such there may be.

This deed is executed and delivered pursuant to a resolution adopted by the Board of Commissioners of The Mayor and Council of the City of Hoboken, on the 1st *day of* March *, 19*49.

STATE OF NEW JERSEY } ss:
COUNTY OF HUDSON }

BOOK 2364 PAGE 261

Be It Remembered, That on this 16th day of May in the year of our Lord One Thousand Nine Hundred and Forty-nine before me the subscriber, a Notary Public of New Jersey personally appeared ARTHUR C. MALONE who being duly sworn according to law on his oath deposes and makes proof to my satisfaction, that he is (and who is known to me to be) the City Clerk of The Mayor and Council of the City of Hoboken, the grantor within named; that Frank V. DeSapio is the Mayor of said City; that deponent knows the corporate seal of said City; that the seal affixed to the foregoing deed is such corporate seal; that he saw the said Mayor sign, seal and deliver the said deed; and heard him acknowledge that he signed, sealed and delivered the same as the voluntary deed of said City, for the uses and purposes therein expressed, and that deponent at the same time affixed the corporate seal of said City thereto and attested the same, and subscribed his name to said deed as witness.

Subscribed and sworn to before me

on Sixteenth day of May,

1949.

ARTHUR C. MALONE

Notary Public of New Jersey

Deed.

THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN, a municipal corporation of the State of New Jersey,

To

MARY CAPPELLUTI

Internal Number County Block No. 17113

Dated, May 16th, 1949

Recorded in the Office of The County of on the day of A.D., 19 at o'clock in the noon and Recorded in Book of DEEDS for said County, on page

RECORDED
REGISTER'S OFFICE
HUDSON COUNTY

1949 MAY 18 PM 2:24

JERSEY CITY, N.J.
EUGENE ERTLE, REGISTER

RR

STEPHEN ROMBELLO
Attorney At Law
68 Hudson Street
Hoboken, New Jersey

BOOK 2818 PAGE 100

Together with all and singular the houses, buildings, trees, woods, waters, profits, privileges, and advantages, with the appurtenances to the same belonging or in anywise appertaining.

Also, all the estate, right, title, interest, property, claim and demand whatsoever, of the said party of the first part, of in and to the same, and of, in and to every part and parcel thereof.

To have and to hold all and singular the said described land and premises, with the appurtenances, unto the said party of the second part, his heirs and assigns to the only proper use, benefit and behoof of the said party of the second part, his heirs and assigns forever.

And the said grantor

for herself, her heirs, executors and administrators, do covenant, promise and agree to and with the said party of the second part, his heirs and assigns, that she has not made, done, committed, executed or suffered any act or acts, thing or things whatsoever, whereby or by means whereof the above mentioned and described premises, or any part or parcel thereof, now are, or at any time hereafter shall or may be impeached, charged or encumbered, in any manner or way whatsoever.

In Witness Whereof, the said party of the first part has hereunto set her hand and seal the day and year first above written.

Signed, Sealed and Delivered in the presence of

Frank J. Ortolano

Mary Cappelluti L.S.
Mary Cappelluti

State of New Jersey, } ss:
County of Hudson

Be it Remembered. That on this 16th day of August in the year of our Lord One Thousand Nine Hundred and Sixty before me the subscriber, an attorney at law of New Jersey personally appeared Mary Cappelluti, widow,

who, I am satisfied, is the grantor mentioned in the within Instrument, to whom I first made known the contents thereof, and thereupon she acknowledged that, she signed, sealed and delivered the same as her voluntary act and deed, for the uses and purposes therein expressed.

Frank J. Ortolano
Attorney at Law of New Jersey

109—DEED - BARGAIN AND SALE (COVENANT AGAINST GRANTOR) A Z E I COPYRIGHT © 1965 BY ALL-STATE OFFICE SUPPLY CO. IND. TO IND. OR CORP. 49 EDISON PLACE, NEWARK, N. J. 07102

This Deed, *made the* 17th *day of* January *19* 72 .

Between

JOSEPH A. CAPPELLUTI and ROSEMARY CAPPELLUTI, his wife

ARNSON

residing at 271 Plateau Avenue *in the* Borough *of* Fort Lee *in the County of* Bergen *and State of* New Jersey *herein designated as the Grantors,*

and

JOHN VITALE and IRENE VITALE, his wife

residing or located at 674 Bergen Avenue *in the* City *of* Jersey City *in the County of* Hudson *and State of* New Jersey *herein designated as the Grantees;*

Witnesseth, that the Grantors, for and in consideration of

THIRTEEN THOUSAND----------($13,000.00)----------Dollars

lawful money of the United States of America, to the Grantors in hand well and truly paid by the Grantees, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents grant, bargain, sell and convey unto the Grantees forever,

All that tract or parcel of land and premises, situate, lying and being in the City *of* Hoboken *in the County of* Hudson *and State of New Jersey, more particularly described as follows:*

Lot 10 in Block 12 on the official assessment map of the City of Hoboken, and which is known and distinguished on a certain map entitled "Map of property situate at Hoboken, Hudson Co., N.J. belonging to the Estate of John Coster, deceased, surveyed and laid out into lots November 1860 by Daniel Ewen and Austin D. Ewen, City Surveyors, N.Y." filed in the office of the Clerk (now Register) of the said County of Hudson is designated as Lot Number Ten (10) in Block Number Twelve (12) on said map, for dimensions and distances reference being had to said map will more fully appear.

Excepting nevertheless, so much of said lot as was conveyed by Charles E. Butler and wife to the North Hudson Railroad by deed dated February 1st, 1875 and recorded in the Hudson County Register's Office in Book 309 of deeds on page 255 etc.

Said premises being known as and by Street No. 61 Paterson Avenue, Hoboken, New Jersey.

Being the same premises conveyed to Joseph A. Cappelluti, a grantor herein, by deed dated August 16, 1960 and recorded in Book 2838 of Deeds for Hudson County on Page 99.

Said premises are approximately 25' x 74'.

The grantors herein do hereby also grant and convey to the grantees herein all their right, title and interest in and to the lands described and conveyed by Deed Book 309, page 255 hereinabove mentioned.

COUNTY OF HUDSON
CONSIDERATION 13,000.00
REALTY TRANSFER FEE 13.00
DATE 1/28/72 BY

DEED 3115 P1016

1743

B-12441

ENTERED

1102

Deed

11:25 AM

JOSEPH A. CAPPELLUTI and
ROSEMARY CAPPELLUTI, his wife

TO

JOHN VITALE and IRENE VITALE,
his wife

X 1243

Dated January 17, 19 72

RECEIVED
FEB 28 12 58 PM '72
HUDSON COUNTY
REGISTER OF DEEDS

UBER 3115 PG1018

Please record and return to
Charles L. Bertini, Esq.
255 Hackensack Street
Wood-Ridge, N. J. 07075

Together with all and singular the buildings, improvements, ways, woods, waters, watercourses, rights, liberties, privileges, hereditaments and appurtenances to the same belonging or in anywise appertaining; and the reversion and reversions, remainder and remainders, rents, issues and profits thereof, and of every part and parcel thereof; And also all the estate, right, title, interest, use, possession, property, claim and demand whatsoever, of the Grantors both in law and in equity, of, in and to the premises herein described, and every part and parcel thereof, with the appurtenances. To Have and to Hold all and singular, the premises herein described, together with the appurtenances, unto the Grantees and to Grantees' proper use and benefit forever.

And the Grantors covenant that they have not done or executed, or knowingly suffered to be done or executed, any act, deed or thing whatsoever whereby or by means whereof the premises conveyed herein, or any part thereof, now are or at any time hereafter, will or may be charged or encumbered in any manner or way whatsoever.

In all references herein to any parties, persons, entities or corporations, the use of any particular gender or the plural or singular number is intended to include the appropriate gender or number as the text of the within instrument may require.

Wherever in this instrument any party shall be designated or referred to by name or general reference, such designation is intended to and shall have the same effect as if the words "heirs, executors, administrators, personal or legal representatives, successors and assigns" had been inserted after each and every such designation.

In Witness Whereof, the Grantors have hereunto set their hands and seals the day and year first above written.

Signed, Sealed and Delivered in the presence of

JOSEPH P. PERFILIO

John Vitale (L.S.)
JOHN VITALE

Irene Vitale (L.S.)
IRENE VITALE, his wife

State of New Jersey, County of Hudson } ss.: Be it Remembered, that on November 18, 19 75, before me, the subscriber, an attorney at Law of New Jersey, personally appeared John Vitale and Irene Vitale, his wife,

who, I am satisfied, are the persons named in and who executed the within Instrument, and thereupon they acknowledged that they signed, sealed and delivered the same as their vol act and deed, for the uses and purposes therein expressed, and that the full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1 (c), is $16,000.00.

Prepared by: JOSEPH P. PERFILIO

JOSEPH P. PERFILIO
Attorney at Law of New Jersey

LIBER 3196 PG 144

Deed

This Deed is made on May 23, 1997
BETWEEN

ANGELO RATTO, ANTONIO RATTO AND FRANCESCO RATTO t/a TRIPLE A REAL ESTATE CO.,
whose post office address is 61 Paterson Avenue, Hoboken, New Jersey

referred to as the Grantor,
AND

ANGELO RATTO, ANTONIO RATTO, FRANCESCO RATTO, JOHN RATTO, GIUSEPPE RATTO AND MARIO GIUSEPPE RATTO t/a TRIPLE A REAL ESTATE CO.
whose post office address is 61 Paterson Avenue, Hoboken, New Jersey

referred to as the Grantee.
The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

1. Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property (called the "Property") described below to the Grantee. This transfer is made for the sum of ONE DOLLAR ($1.00)

The Grantor acknowledges receipt of this money.

2. Tax Map Reference. (N.J.S.A. 46:15-1.1) Municipality of Hoboken
Block No. 12 Lot No. 10 Account No.
☐ No property tax identification number is available on the date of this Deed. (Check box if applicable.)

3. Property. The Property consists of the land and all the buildings and structures on the land in the City of Hoboken County of Hudson and State of New Jersey. The legal description is:

☒ Please see attached Legal Description annexed hereto and made a part hereof (check box if applicable).

A COPY OF THIS DEED HAS BEEN SENT TO ASSESSOR'S OFFICE 3

RECEIVED 004644

Prepared by: (print signer's name below signature)

MICHAEL A. MONGIELLO, ESQ.

(For Recorder's Use Only)

CONSIDERATION: $ .00 EXEMPT CODE: E

	COUNTY	STATE	N.J.S.A.F	TOTAL
TJC	.00	.00	.00	.00

DATE- 5/28/1997

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NC 1646—AFFIDAVIT OF CONSIDERATION
RTF-1 (Rev. 1/1/86)

STATE OF NEW JERSEY
AFFIDAVIT OF CONSIDERATION OR EXEMPTION
(c. 49, P.L. 1968)
or
PARTIAL EXEMPTION
(c. 176, P. L. 1975)

ALL-STATE LEGAL
A Division of All-state International, Inc.
800-222-0510 in NJ 908-272-0800

A D G R V , 2

To Be Recorded With Deed Pursuant to c. 49, P.L. 1968, as amended by c. 225, P.L. 1985 (N.J.S.A. 46:15-5 et seq.)

STATE OF NEW JERSEY
COUNTY OF HUDSON } ss.

FOR RECORDER'S USE ONLY
Consideration $
Realty Transfer Fee $ *
Date By

*Use symbol "C" to indicate that fee is exclusively for county use.

(1) PARTY OR LEGAL REPRESENTATIVE (See Instructions #3, 4 and 5 on reverse side)

Deponent, Francisco Ratto (Name), being duly sworn according to law upon his/her oath deposes and says that he/she is the Grantor (State whether Grantor, Grantee, Legal Representative, Corporate Officer, Officer of Title Co., Lending Institution, etc.)

in a deed dated May 23, 1997, transferring real property identified as Block No. 12

Lot No. 10 located at 61 Paterson Avenue, Hoboken, Hudson County (Street Address, Municipality, County)

and annexed hereto.

(2) CONSIDERATION (See Instruction #6)

Deponent states that, with respect to deed hereto annexed, the actual amount of money and the monetary value of any other thing of value constituting the entire compensation paid or to be paid for the transfer of title to the lands, tenements or other realty, including the remaining amount of any prior mortgage to which the transfer is subject or which is to be assumed and agreed to be paid by the grantee and any other lien or encumbrance thereon not paid, satisfied or removed in connection with the transfer of title is $ 1.00

(3) FULL EXEMPTION FROM FEE Deponent claims that this deed transaction is fully exempt from the Realty Transfer Fee imposed by c.49, P.L. 1968, for the following reason(s): Explain in detail. (See Instruction #7.) Mere reference to exemption symbol is not sufficient.

For a Consideration of less than $100.00

(4) PARTIAL EXEMPTION FROM FEE *NOTE: All boxes below apply to grantor(s) only. ALL BOXES IN APPROPRIATE CATEGORY MUST BE CHECKED. Failure to do so will void claim for partial exemption. (See Instructions #8 and #9)*

Deponent claims that this deed transaction is exempt from the increased portion of the Realty Transfer Fee imposed by c.176, P.L. 1975 for the following reason(s):

a) **SENIOR CITIZEN** (See Instruction #8)
- ☐ Grantor(s) 62 yrs. of age or over.*
- ☐ One or two-family residential premises
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

b) **BLIND** (See Instruction #8)
- ☐ Grantor(s) legally blind.*
- ☐ One or two-family residential premises.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

DISABLED (See Instruction #8)
- ☐ Grantor(s) permanently and totally disabled.*
- ☐ One or two-family residential premises.
- ☐ Receiving disability payments.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ Not gainfully employed.
- ☐ No joint owners other than spouse or other qualified exempt owners.

*IN THE CASE OF HUSBAND AND WIFE, ONLY ONE GRANTOR NEED QUALIFY.

c) **LOW AND MODERATE INCOME HOUSING** (See Instruction #8)
- ☐ Affordable According to H.U.D. Standards.
- ☐ Meets Income Requirements of Region.
- ☐ Reserved for Occupancy.
- ☐ Subject to Resale Controls.

d) **NEW CONSTRUCTION** (See Instruction #9)
- ☐ Entirely new improvement.
- ☐ Not previously used for any purpose.
- ☐ Not previously occupied.

Deponent makes this Affidavit to induce the County Clerk or Register of Deeds to record the deed and accept the fee submitted herewith in accordance with the provisions of c. 49, P.L. 1968.

Subscribed and Sworn to before me this 23 day of ~~February~~ May, 19 97

Francisco Ratto (Name of Deponent (sign above line))

Francisco Ratto (Name of Grantor (type above line))

Michael A. Mongiello, Esq. (Address of Deponent)

61 Paterson Avenue, Hoboken, New Jersey (Address of Grantor at Time of Sale)

FOR OFFICIAL USE ONLY This space for use of County Clerk or Register of Deeds.
Instrument Number County
Deed Number Book Page
Deed Dated Date Recorded

WHITE AND YELLOW COPIES MUST BE SUBMITTED WITH DEED TO COUNTY RECORDING OFFICER

IMPORTANT - BEFORE COMPLETING THIS AFFIDAVIT, PLEASE READ THE INSTRUCTIONS ON THE REVERSE SIDE HEREOF.
This form is prescribed by the Director, Division of Taxation in the Department of the Treasury, as required by law, and may not be altered or amended without the approval of the Director.
ORIGINAL — White copy to be retained by County.
DUPLICATE — Yellow copy to be forwarded by County to Division of Taxation on partial exemption from fee (N.J.A.C. 18:15—8.12).
TRIPLICATE — Pink copy is your file copy.

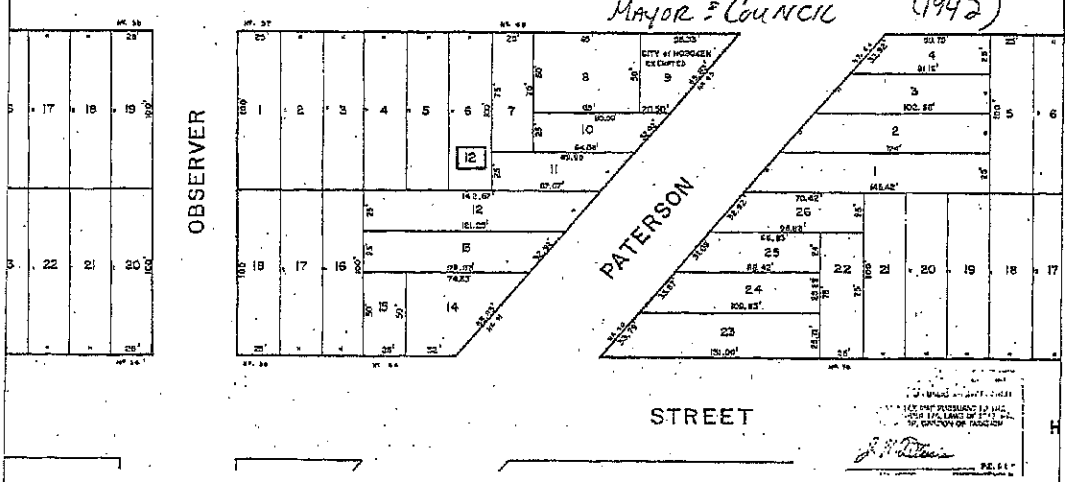
BK5144PG062

OLD: 1743

Property Location	
57 PATERSON AVE, Hoboken 07030	
District: 905 (Hoboken City), Block: 12, Lot: 12	
Property Information	**Assessment Data**
Class: 1 - Vacant Land	Total Value: $81,200
Zoning:	Land Value: $81,200
Bld Description: LAND	Improvement Value:
Land Description: 25 X 132 AVG.	% Improvement: N/A
Acreage: 0.0758	Special Tax Codes:
Square Footage:	Deductions: Senior Veteran Widow Surv. Spouse Disabled
Usage:	Count:
Year Constructed: 1901	Exemption:
Use Code:	Exemption statute:
# Dwellings:	2009 Rate: 4.489; 2009 Ratio: 29.25%; 2009 Taxes: $3,645
Census Tract: 0192	2010 Rate: 4.745; 2010 Ratio: 27.16%; 2010 Taxes: $3,853
	2011 Rate: (null); 2011 Ratio: N/A; 2011 Taxes: N/A

Current Owner	Sale Data	
PONTE EQUITIES INC 268 WEST STREET New York, NY 10013-1731	Date: Price: Ratio: Deed Book: Deed Page:	4365-274
Previous Owner:		

V. PONTE & SONS, INC (1990)
4082-84
WILLIAM & ELIZABETH BURCHILL
3101-234
2733-117
2012-623
MAYOR & COUNCIL (1942)



[illegible] United States of America [illegible]
[illegible] said by the said [illegible]
[illegible] before the sealing and delivery of these presents
the receipt whereof is hereby acknowledged and the said
[illegible] the first [illegible] being therewith fully satisfied con-
tented and paid hath granted [illegible] and these
presents do grant bargain sell alien release enfeoff convey and confirm unto
the said [illegible] the second part and to his heirs and assigns forever.

All that certain lot piece or parcel of land
[illegible] particularly described as follows
[illegible] in the town of [illegible] in the county of
[illegible] was
[illegible] Robert [illegible] and Nathan [illegible]
[illegible] Daniel [illegible]
[illegible] Commencing [illegible]
[illegible] the County of Hudson on
[illegible] thence [illegible]
[illegible] on the [illegible] side
[illegible] feet [illegible] inches in front or said [illegible]
[illegible] feet [illegible] inches on the [illegible] side
[illegible] feet [illegible] inches on the [illegible] side
[illegible] said lot and [illegible] [illegible]

[illegible] the said [illegible] said lot [illegible]
[illegible] and [illegible] her husband [illegible]
[illegible] in the office of the [illegible] Register of the
County of Hudson [illegible] on the [illegible] day of [illegible]
in Book [illegible] of Deeds for said County on page [illegible]

Together with all and singular the
tenements hereditaments and appurtenances thereunto belonging
or in anywise appertaining and the reversion and reversions
remainder and remainders rents issues and profits thereof

And also all the estate right
title interest dower and right of dower rights inheritance claim
and demand whatsoever in law or in equity of the said
[illegible] of in and to the upon described premises and
every part and parcel thereof with the appurtenances.

[illegible] said Kevin granted and released premises [illegible] said Kevin with the appurtenances unto the said Mary Ann Carr and her heirs forever against the said [illegible] the first [illegible] said Kevin and all and every person or persons whatsoever lawfully claiming or to claim the same shall and will warrant and by these presents forever defend.

Witness whereof the said parties to the first part hath hereunto set their hands and seals the day and year first above written.

Signed sealed & delivered in the presence of [illegible] — John Carr (Seal); Mary Ann Carr (Seal) her mark

[illegible] — Be it remembered that on this [illegible] day before me John [illegible] a Justice of the Peace [illegible] personally appeared the within named John Carr and Mary Ann his wife [illegible] and acknowledged that they signed, sealed and delivered the same as their voluntary act and deed in the presence of the subscribing witnesses.

And the said Mary Ann being by me privately examined apart from her said husband [illegible] acknowledged that she signed sealed and delivered the same as her voluntary act and deed freely without any compulsion of her said husband.

John [illegible]
Justice of the Peace
[illegible]

Filed in the office of the Recorder of [illegible] this [illegible] day of [illegible]

to said complainant the sum of money to wit, $1,755.82 so found and reported to be due to said complainant, together with its taxed costs of suit, either at the time and place aforesaid, or at any other time or place; It is thereupon on this 18th day of September 1939, by his Honor LutherA. Campbell , Chancellor of the State of New Jersey; ORDERED, ADJUDGED and DECREED, that the said last mentioned Master's report, and all matters and things therein contained, do stand ratified, confirmed and approved and that the said defendants Anna Habermann and Frederick Habermann and THE STATE OF NEW JERSEY, and all persons claiming by, through or under them stand absolutely debarred and foreclosed of and from all right and equity of redemption in and to the lands and premises mentioned and set forth in the bill of complaint, which lands and premises are therein described as follows, to wit:

ALL that certain lot, tract or parcel of land and premises, hereinafter particularly described, situate, lying and being in the City of Hoboken, in the County of Hudson and State of New Jersey, and which upon a certain map entitled "Map of property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John C. Coster, dec'd., surveyed and laid out into lots November 1860, by Daniel Ewen and Austin D. Ewen, City Surveyors, N.J." on file in the office of the Clerk (now Register) of the County of Hudson, is known and distinguished as lot number twelve (12) in block number twelve (12), fronting and facing on the southerly side or line of Paterson Avenue, as shown on said map, said lot being thirty-two feet eleven (32' 11") inches in front on said Paterson Avenue, Twenty-five (25') feet in the rear, one hundred twenty-one feet three (121' 3") inches on the easterly side of said lot and one hundred forty-two feet eight (142' 8") inches on the westerly side of said lot, said dimensions being more or less. AND it is further ADJUDGED, DECLARED and DECREED that the said complainant is seized of an absolute and indefensible estate of inheritance in fee simple in the whole and every part of the lands and premises above described and that neither the said defendants aforesaid, nor any person or persons claiming by, through, or under them any right, title or interest, in, lien or claim upon said lands and premises above described or any part thereof,

LUTHER A. CAMPBELL
C

I, EDW. L. WHELAN, Clerk of the Court of Chancery of the State of New Jersey, the same being a Court of Record, do hereby certify that the foregoing is a true copy of the Final Decree filed Sept. 18, 1939 in the cause wherein The Mayor and Council of the City of Hoboken, a municipal corporation of the State of New Jersey, is complainant and Anna Habermann and Frederick Habermann and The State of New Jersey, are defendants now on the files of my office . IN TESTIMONY WHEREOF, I have hereto set my hand and affixed the seal of said Court, at Trenton, this 19th day of September A.D. nineteen hundred and thirty-nine.

(COURT SEAL) EDW L. WHELAN
CLERK

Received in the office and recorded Sept 19, 1939 @ 3:34 P.M. # 5985

///C.C.R. ///

COMPARED

BETWEEN THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN, A MUNICIPAL CORPORATION OF THE STATE OF NEW JERSEY, COMPLAINANT, -and- WILLOW PARK REALTY CO., INC. A CORPORATION OF THE STATE OF NEW JERSEY, DEFENDANTS.	:	IN CHANCERY OF NEW JERSEY 124-234 On Bill to Foreclose Right of Redemption, Etc. FINAL DECREE

of the City of Hoboken, and which upon a certain map entitled "Map of property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, dec'd., surveyed and laid out into lots November 1860, by Daniel Ewen and Austin D. Ewen, City Surveyors, N.Y." on file in the office of the Clerk (now Register) of the County of Hudson, is known and distinguished as lot number twelve (12) in block number twelve (12), fronting and facing on the southerly side or line of Paterson Avenue, as shown on said map, said lot being thirty-two feet eleven (32'11") inches in front on said Paterson Avenue, twenty-five (25') feet in the rear, one hundred twenty-one feet three (121'3") inches on the easterly side of said lot and one hundred forty-two feet eight (142'8") inches on the westerly side of said lot, said dimensions being more or less.

Being also known by the street number 57 Paterson Avenue, Hoboken, N.J. The party of the first part reserves to itself the right to demand, collect, sue for and receive all unpaid rents due from the tenants now in possession of the premises and which accrued and were payable by said tenants prior to the date hereof. Subject to such state of facts as an accurate survey would disclose, to zoning ordinances, easements and restrictions of record if any, tenement violations and existing tenancies, if any; also to taxes, assessments, water rents and other municipal liens accruing after the date hereof.

And it is covenanted and agreed by and between the parties hereto that it is the intention of the parties hereto that the grantor herein named conveys hereby only such right, title and interest insand to the lands and premises described in this deed as was acquired by the grantor through municipal tax sale proceedings and decree of the Court of Chancery of New Jersey relating thereto, or deed from the former owner, as the case be, and that the grantee in this deed named his or her heirs, executors, administrators or assigns, or its successors or assigns, shall have no recourse at law or in equity against the grantor for any imperfections of title or otherwise, if such there may be.

This deed is executed and delivered pursuant to a resolution adopted by the Board of Commissioners of The Mayor and Council of the City of Hoboken, on the 21st, day of July 1942. TOGETHER with all and singular the houses, buildings, trees, ways, waters, profits, privileges, and advantages, with the appurtenances to the same belonging or in anywise appertaining, subject as aforesaid,

ALSO all the estate, right, title, interest, property, claim and demand whatsoever, of the said party of the first part, of, in and to the same, and of, in and to every part and parcel thereof, subject as aforesaid,

TO HAVE AND TO HOLD, all and singular the above described land and premises, with the appurtenances, unto the said parties of the second part, their heirs and assigns subject as aforesaid. IN WITNESS WHEREOF, the said party of the first part has caused its corporate Seal to be hereto affixed and attested by its City Clerk and these presents to be signed by its Mayor, the day and year first above written.

ATTEST: Arthur C. Malone
City Clerk

No Rev. Stamps

City of Hoboken, N.J. Corporate Seal

THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN
Bernard N. McFeely
Mayor

N. J. DEED—FULL COVENANT WARRANTY—FORM No. 120 INDIV. TO INDIV. OR CORP. THE CHISHOLM PRINTING COMPANY, 408 PEARL ST., N. Y. 2-5-70

This Indenture,

Sl. No. 5734 Block

Made the 31st *day of* October *in the year of our Lord* *One Thousand Nine Hundred and* Fifty-Seven

Between ANNA BUSCH, widow and unmarried now residing at 608 Second Street,

in the City *of* Hoboken *in the County of* Hudson *and State of* New Jersey

party of the first part;

and EDWARD J. BUCHANAN and PATRICIA BUCHANAN, his wife of 57 Paterson Avenue, in the City of Hoboken, County of Hudson and State of New Jersey,

party of the second part;

Witnesseth, That the said party of the first part, for and in consideration of One ($1.00) Dollar and other good and valuable consideration

lawful money of the United States of America, to her *in hand well and truly paid by the said party of the second part, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the said party of the first part being therewith fully satisfied, contented and paid, has given, granted, bargained, sold, aliened, released, enfeoffed, conveyed and confirmed, and by these presents do* as *give, grant bargain, sell, alien, release, enfeoff, convey and confirm unto the said party of the second part, and to* their heirs *and assigns, forever,* All that certain lot *tract or parcel of land and premises, hereinafter particularly described, situate, lying and being in the* City *of* Hoboken *in the County of* Hudson *and State of* New Jersey, known as Lot 12, in Block No. 12, on the official assessment map of the City of Hoboken and upon a certain map entitled " Map of property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, dec'd., surveyed and laid out into lots November 1860, by Daniel Ewen and Austin D. Ewen, City Surveyors, N.Y." on file in the office of the Clerk (now Register) of the County of Hudson, is known and distinguished as lot number twelve (12) in block number twelve (12) ,fronting and facing on the southerly side or line of Paterson Avenue, as shown on said map, said lot being thirty-two feet eleven (32'11") inches in front on said Paterson Avenue, Twenty-five (25') feet in the rear, one hundred twenty -one feet three (121'3") inches on the easterly side of said lot and one hundred forty-two feet eight (142' 8") inches on the westerly side of said lot, said dimensions being more or less.

Being also known by the street number 57 Paterson Avenue, Hoboken, N.J.

Being the same premises conveyed to John Busch and Anna Busch his wife by The Mayor and Council of the City of Hoboken, a municipal corporation of the State of New Jersey, by deed dated August 4th, 1942 and recorded in the Register's Office of Hudson County on August 6th, 1942 in Book 2012 of Deeds for said County on page 623.

State of New Jersey,
County of HUDSON } SS:

BOOK 2733 PAGE 119

Be it Remembered, that on the 31st day of October in the year of our Lord One Thousand Nine Hundred and Fifty Seven before me the subscriber, A Master of The Superior Court of New Jersey

personally appeared ANNA BUSCH, widow and unmarried

who, I am satisfied, is the grantor mentioned in the within Instrument, to whom I first made known the contents thereof, and thereupon she signed, sealed, and delivered the same as her voluntary act and deed, for the uses and purposes therein expressed.

E. Norman Wilson
E. Norman Wilson
A Master of The Superior Court of New Jersey

Deed

GRANTOR
ANNA BUSCH, widow and unmarried

TO
EDWARD J. BUCHANAN and PATRICIA BUCHANAN his wife

17543

Dated, October 31st 1957

Received in the Office of the County of on the day of A.D., 19 at o'clock in the noon and Recorded in Book of DEEDS for said County, on page

Abr. M. Nickolsporn
Counsellor at Law
84 Washington St.
Hoboken, N.J.

RECORDED
HUDSON COUNTY
NEW JERSEY
NOV 5 AM 9:34
JERSEY CITY
WILLIAM L. JOHNSTON
REGISTER

Together with all and singular the buildings, improvements, ways, woods, waters, watercourses, rights, liberties, privileges, hereditaments and appurtenances to the same belonging or in anywise appertaining; and the reversion and reversions, remainder and remainders, rents, issues and profits thereof, and of every part and parcel thereof; And also all the estate, right, title, interest, use, possession, property, claim and demand whatsoever, of the Grantors both in law and in equity, of, in and to the premises herein described, and every part and parcel thereof, with the appurtenances. To Have and to Hold all and singular, the premises herein described, together with the appurtenances, unto the Grantees and to Grantees' proper use and benefit forever.

And the Grantors covenant that they have not done or executed, or knowingly suffered to be done or executed, any act, deed or thing whatsoever whereby or by means whereof the premises conveyed herein, or any part thereof, now are or at any time hereafter, will or may be charged or encumbered in any manner or way whatsoever.

In all references herein to any parties, persons, entities or corporations, the use of any particular gender or the plural or singular number is intended to include the appropriate gender or number as the text of the within instrument may require.

Wherever in this instrument any party shall be designated or referred to by name or general reference, such designation is intended to and shall have the same effect as if the words "heirs, executors, administrators, personal or legal representatives, successors and assigns" had been inserted after each and every such designation.

In Witness Whereof, the Grantors have hereunto set their hands and seals the day and year first above written.

Signed, Sealed and Delivered
in the presence of

Edward J. Buchanan (L.S.)
EDWARD J. BUCHANAN

THOMAS W. SHARLOW

Patricia Buchanan (L.S.)
PATRICIA BUCHANAN

State of New Jersey, County of Middlesex } ss.: Be it Remembered,
that on May 17th, 19 71, before me, the subscriber,
an Attorney at Law of New Jersey,
personally appeared Edward J. Buchanan and Patricia Buchanan, his wife,

who, I am satisfied, are the person s named in and who executed the within Instrument, and thereupon they acknowledged that they signed, sealed and delivered the same as their act and deed, for the uses and purposes therein expressed, and that the full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1 (c), is ~~XXXXXXXXXXXXXXXXXXXX~~ $5,018.00.

Prepared by: Thomas W. Sharlow, Esq.

THOMAS W. SHARLOW
Attorney at Law of New Jersey

LIBER 3101 PG 235

000477 **DEED**

Prepared by: (Print signer's name below signature)
SETH MININSOHN, ESQ.

This Deed is made on January 13, 1989,

BETWEEN

WILLIAM BURCHILL and ELIZABETH BURCHILL, husband & wife

whose address is 57 Paterson Ave., Hoboken, NJ 07030
referred to as the Grantor,

AND

V. PONTE & SONS, INC.

whose post office address is 511 Canal Street, NY, NY 10013
referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of $140,000.00 (one hundred forty thousand dollars).

The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of Hoboken
Block No. 12 Lot No. 12 Account No.
☐ No property tax identification number is available on the date of this deed. (Check box if applicable.)

Property. The property consists of the land and all the buildings and structures on the land in the City of Hoboken County of Hudson and State of New Jersey. The legal description is:

SEE LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF.

Promises by Grantor. The Grantor promises that the Grantor has done no act to encumber the property. This promise is called a "covenant as to grantor's acts" (N.J.S.A. 46:4-6). This promise means that the Grantor has not allowed anyone else to obtain any legal rights which affect the property (such as by making a mortgage or allowing a judgment to be entered against the Grantor).

Signatures. The Grantor signs this Deed as of the date at the top of the first page.

Witnessed by:

SETH MININSOHN, ESQ.
An Attorney at Law of NJ

WILLIAM BURCHILL (Seal)

ELIZABETH BURCHILL (Seal)

STATE OF NEW JERSEY, COUNTY OF HUDSON SS.:

I CERTIFY that on January 13, 1989,

William Burchill and Elizabeth Burchill personally came before me and acknowledged under oath, to my satisfaction, that this person (or if more than one, each person):

(a) is named in and personally signed this Deed;
(b) signed, sealed and delivered this Deed as his or her act and deed; and
(c) made this Deed for $140,000.00 as the full and actual consideration paid or to be paid for the transfer of title. (Such consideration is defined in N.J.S.A. 46:15-5.)

(Print name and title below signature)
SETH MININSOHN, ESQ.
An Attorney at Law of NJ.

Record and Return to:
Eugene P. O'Connell, Esq.
544 Summit Ave.
Jersey City, NJ 07306

Consideration $ 140,000.00 R.F. 480.00
Realty Transfer Fee 490.00 Rec. 22.00
Mod. Fee/17 E7
Adj. N.C.
By
Total $ 490.00 Add. Rec. 572.00

BK4082PG084

RECEIVED
93 MAY 17 PM12:41
[illegible]
[illegible]

BK4062PG086

NC 1645—AFFIDAVIT OF CONSIDERATION
RTF-1 (Rev. 1/1/85)

STATE OF NEW JERSEY
AFFIDAVIT OF CONSIDERATION OR EXEMPTION
(c. 49, P.L. 1968)
or
PARTIAL EXEMPTION
(c. 176, P. L. 1975)

ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N. J. 07016
RV T—1

To Be Recorded With Deed Pursuant to c. 49, P.L. 1968, as amended by c. 225, P.L. 1985 (N.J.S.A. 46:15-5 et seq.)

STATE OF NEW JERSEY
COUNTY OF BERGEN } ss.

FOR RECORDER'S USE ONLY
Consideration $
Realty Transfer Fee $ *
Date 1-15-91 By

*Use symbol "C" to indicate that fee is exclusively for county use.

(1) PARTY OR LEGAL REPRESENTATIVE (See Instructions #3, 4 and 5 on reverse side)

Deponent, ANGELO J. PONTE (Name), being duly sworn according to law upon his/her oath deposes and says that he/she is the Secretary of V. PONTE & SONS, INC. (State whether Deponent, Grantor, Legal Representative, Corporate Officer, Officer of Title Co., Lending Institution, etc.)

in a deed dated December 3, 1990, transferring real property identified as Block No. 12

Lot No. 12 located at 57 Paterson Street, Hoboken, New Jersey (Street Address, Municipality, County)

and annexed hereto.

(2) CONSIDERATION (See Instruction #6)

Deponent states that, with respect to deed hereto annexed, the actual amount of money and the monetary value of any other thing of value constituting the entire compensation paid or to be paid for the transfer of title to the lands, tenements or other realty, including the remaining amount of any prior mortgage to which the transfer is subject or which is to be assumed and agreed to be paid by the grantee and any other lien or encumbrance thereon not paid, satisfied or removed in connection with the transfer of title is $

(3) FULL EXEMPTION FROM FEE Deponent claims that this deed transaction is fully exempt from the Realty Transfer Fee imposed by c.49, P.L. 1968, for the following reason(s): Explain in detail. (See Instruction #7.) Mere reference to exemption symbol is not sufficient.

The amount of consideration is less than ten dollars

(4) PARTIAL EXEMPTION FROM FEE *NOTE: All boxes below apply to grantor(s) only. ALL BOXES IN APPROPRIATE CATEGORY MUST BE CHECKED. Failure to do so will void claim for partial exemption. (See Instructions #8 and #9)*

Deponent claims that this deed transaction is exempt from the increased portion of the Realty Transfer Fee imposed by c.176, P.L. 1975 for the following reason(s):

a) **SENIOR CITIZEN** (See Instruction #8)
- ☐ Grantor(s) 62 yrs. of age or over.*
- ☐ One or two-family residential premises
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

b) **BLIND** (See Instruction #8)
- ☐ Grantor(s) legally blind.*
- ☐ One or two-family residential premises.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

DISABLED (See Instruction #8)
- ☐ Grantor(s) permanently and totally disabled.*
- ☐ One or two-family residential premises.
- ☐ Receiving disability payments.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ Not gainfully employed.
- ☐ No joint owners other than spouse or other qualified exempt owners.

*IN THE CASE OF HUSBAND AND WIFE, ONLY ONE GRANTOR NEED QUALIFY.

c) **LOW AND MODERATE INCOME HOUSING** (See Instruction #8)
- ☐ Affordable According to H.U.D. Standards.
- ☐ Meets Income Requirements of Region.
- ☐ Reserved for Occupancy.
- ☐ Subject to Resale Controls.

d) **NEW CONSTRUCTION** (See Instruction #9)
- ☐ Entirely new improvement.
- ☐ Not previously used for any purpose.
- ☐ Not previously occupied.

Deponent makes this Affidavit to induce the County Clerk or Register of Deeds to record the deed and accept the fee submitted herewith in accordance with the provisions of c. 49, P.L. 1968.

Subscribed and Sworn to before me this 3 day of December, 19 90

Joseph A. Foglia
Attorney at Law
State of New Jersey

Name of Deponent (sign above line) — Name of Grantor (type above line): V. PONTE & SONS, INC.

Address of Deponent: 2 Hope St., Jersey City, NJ — Address of Grantor at Time of Sale: 2 Hope St., Jersey City, NJ

FOR OFFICIAL USE ONLY This space for use of County Clerk or Register of Deeds.
Instrument Number 00295 County
Deed Number Book Page
Deed Dated 12-3-90 Date Recorded 1-15-91

IMPORTANT - BEFORE COMPLETING THIS AFFIDAVIT, PLEASE READ THE INSTRUCTIONS ON THE REVERSE SIDE HEREOF.
This form is prescribed by the Director, Division of Taxation in the Department of the Treasury, as required by law, and may not be altered or amended without the approval of the Director.
ORIGINAL — White copy to be retained by County.
DUPLICATE — Yellow copy to be forwarded by County to Division of Taxation on partial exemption from fee (N.J.A.C. 18:16—8.12).
TRIPLICATE — Pink copy is your file copy.

WHITE AND YELLOW COPIES MUST BE SUBMITTED WITH DEED TO COUNTY RECORDING OFFICER

BK4365PG275

DEED

V. PONTE & SONS, INC.

Grantor.

TO

PONTE EQUITIES, INC.

Grantee.

Dated: December 3 , *1990*

Record and return to:

Law Office of Joseph A. Foglia
171 E. Ridgewood Ave.
Ridgewood, New Jersey 07450

BK4365PG277

seals the day and year first above written

signed sealed and delivered Ida Abramson. seal

in the presence of Louis Abramson. seal

J.Frank Finn.Jr

State of New Jersey

Hudson County,SS Be It Remembered, that on this seventeenth day of January in the year one thousand nine hundred and eight before me the subscriber a Master in Chancery of New Jersey, personally appeared, Ida Abramson and Louis Abramson her husband, who, I am satisfied are the grantors in the within indenture named, and I having first made known to them the contents thereof they did acknowledge that they signed sealed and delivered the same as their voluntary act and deed for the uses and purposes therein expressed.

And the said Ida Abramson being by me privately examined separate and apart from her said husband did further acknowledge that she signed sealed and delivered the same as her voluntary act and deed freely and without any fear threats or compulsion of or from her said husband

J.Frank.Finn. Jr.

Master in Chancery of New Jersey

33

Received in the office & Recorded, Jan. 22, 1908,At,10.01,A.M.No. 447

William Machut et Ux. Deed.

To Dated

Ernst Blodow et Ux. Jan. 29.1908

This Indenture, made the twenty ninth day of January in the year of Our Lord One thousand Nine hundred and eight, Between William Machut and Julia Machut his wife , of the City of Hoboken in the County of Hudson and State of New Jersey parties of the first part and Ernst Blodow and Anna Blodow husband and wife, of the City of Hoboken in the County of Hudson and State of New Jersey parties of the second part,

Witnesseth, that the said parties of the first part for and in consideration of one dollar and other valuable considerations lawful money of the United States of America to them in hand well and truly paid by the said party of the second part at or before the ensealing and delivery of these presents the receipt whereof is hereby acknowledged and the said parties of the first part being therewith fully satisfied contented and paid have given granted bargained sold aliened released enfeoffed conveyed and confirmed and by these presents do give grant bargain sell alien release enfeoff convey and confirm unto the said party of the second part and to their heirs and assigns forever, All that certain lot tract or parcel of land and premises, hereinafter particularly described situate lying and being in the City of Hoboken in the County of Hudson and State of New Jersey and which upon a map entitled, Map of property situate at Hoboken Hudson County belonging to the estate of John G.Coster deceased, surveyed and laid out into lots November 1860 by Daniel Ewen and Austin D.Ewen City Surveyors New York and filed in the office of the Clerk of the County of Hudson (now Register () as lot number seven(7) on block number twelve(12) fronting and facing on the easterly side of Harrison street as reference to said map will more fully appear. and which is bounded as follows .

1000-382

lawfully claiming or to claim the same shall and will warrant and by these presents forever defend

In Witness Whereof the said parties of the first part have hereUnto set their hands and seals the day and year first above written

Signed sealed and delivered

in the presence of — Wilhelm Machut seal

Adolph C. Carsten. — Julia Machut. seal

State of New Jersey

County of Hudson, SS Be It Remembered, that on this twenty ninth day of January in the year of Our Lord One thousand Nine Hundred and eight, before me the subscriber personally appeared, William Machut and Julia Machut who I am satisfied are the grantors mentioned in the within instrument to whom I first made known the contents thereof and thereupon they acknowledged that they signed sealed and delivered the same as their voluntary act and deed for the uses and purposes therein expressed.

And the said Julia Machut being by me privately examined separate and apart from her said husband further acknowledged that she signed sealed and delivered the same as her voluntary act and deed freely without any fear threats or compulsion of her said husband

Adolph C. Carsten

Attorney At Law of New Jersey

Received in the office & Recorded, Jan. 30. 1908, At, 12.05 P.M. No. 612.

Andrew O'Reilly — Deed.

To — Dated

Mary O'Reilly — May. 20. 1903.

This Indenture, made the twentieth day of May in the year of Our Lord One thousand Nine hundred and three, Between Andrew O'Reilly (single man) of the City of Yonkers in the County of Westchester and State of New York party of the first part, and Mary O' Reilly of the City of Jersey City in the County of Hudson and State of New Jersey party of the second part.

Witnesseth, that the said party of the first part for and in consideration of one dollar and other valuable considerations lawful money of the United States of America to him in hand well and truly paid by the said party of the second part at or before the sealing and delivery of these presents the receipt whereof is hereby acknowledged, and the said party of the first part being therewith fully satisfied contented and paid has given granted bargained sold aliened released enfeoffed conveyed and confirmed and by these presents does give grant bargain sell alien release enfeoff convey and confirm unto the said party of the second part and to her heirs and assigns forever

All that certain lot tract or parcel of land and premises with the building thereon erected hereinafter particularly described situate lying and being in the City of Jersey City in the County of Hudson and State of New Jersey which on a map entitled, Map of the property belonging to the Washington Village Land Association situated near Hoboken on the Palisade avenue near the Newark road duly filed of record in the office of the Clerk (now Register) of the said

920.
of MARCH, in the
BETWEEN
unty of HUDSON
THOMAS HENDRICK
and
HUDSON ne State
NESSETH: THAT
ation, lawful
acknowledged
heirs and assigns
rcel of land and
City of HOBOKEN
Known and distinguished
, NEW JERSEY, being
NOVEMBER 1860,
e of the Clerk
ar twelve (12)
map will more

ty-five (25) feet
erly by the rear
25) feet, and

to the said Ernest
wife, by deed
said County of HUDSON
TOGETHER with
of dower, of the
E AND TO HOLD, the
ex
NA BLODOW for
th the said grantees
said premises is
nd wife.
D ANNA BLODOW
essaid.
, and assigns
ery person

lawfully claiming the same.

4. That the same are now free and clear of all encumbrance whatsoever,

5. That the grantors and their heirs, and all persons lawfully claiming under them any interest in said premises, shall and will at any time hereafter, upon the request and at the cost of the grantee their heirs or assigns, execute all further conveyances that shall be reasonably required.

6. AND the said ERNST BLODOW AND ANNA BLODOW, their heirs, the above described premises, and every part thereof, with the appurtenances, unto the grantees, their heirs and assigns, against the grantors and their heirs, and against all persons lawfully claiming the same, shall and will WARRANT and by these presents FOREVER DEFEND.

IN WITNESS WHEREOF, the grantors have hereunto set their hands and seals the day and year first above written.

SIGNED, SEALED AND DELIVERED
IN THE PRESENCE OF
MORTEN R. MORTENSEN

REV STAMPS $3.00

ERNST BLODOW SEAL
ANNA BLODOW SEAL

STATE OF NEW JERSEY
COUNTY OF HUDSON SS:

BE IT REMEMBERED, THAT on this twenty-sixth day of MARCH, in the year of our Lord, one thousand nine hundred and twenty, before me, the subscriber, A NOTARY PUBLIC OF NEW JERSEY, personally appeared ERNST BLODOW AND ANNA BLODOW, his wife, who, I am satisfied, are the grantors mentioned in the within indenture, to whom I first made known the contents thereof, and thereupon they acknowledged that they signed, sealed and delivered the same as their voluntary act and deed, for the uses and purposes therein expressed;

AND the said ANNA BLODOW, being by me privately examined, separate and apart from her said husband, further acknowledged that she signed, sealed and delivered the same as her voluntary act and deed FREELY, without any fear, threats or compulsion of her said husband.

MORTEN R. MORTENSEN
NOTARY PUBLIC OF NEW JERSEY

REC'D IN THE OFFICE & RETD'D MAR 27, 1920 10.45 AM. # 5018
HPG
##

HERMAN BARTH ET UX
TO
JESSIE HEYMAN

DEED DATED
MAR. 26, 1920.

THIS DEED, Made the twenty-sixth day of MARCH in the year one thousand nine hundred and twenty, BETWEEN HERMAN BARTH AND HELEN BARTH, his wife, of the City of JERSEY CITY, County of HUDSON and State of NEW JERSEY hereinafter called "GRANTORS" AND JESSIE HEYMAN, of the same place, hereinafter called "GRANTEE", WITNESSETH: THAT in con-

BEING the same premises conveyed to Thomas Jerkovich, the said party of the first part hereto and Manda Jerkovich, his wife, by deed dated March 26, 1920 made by Ernst Blodow and wife, and recorded in Book 1549 of Deeds for Hudson County, at page 644. The said Manda Jerkovich departed this life on January 14, 1934, while still married to said Thomas Jerkovich.

This conveyance is made expressly subject to a mortgage in the sum of Twenty Four Hundred Fifteen Dollars and Thirty-eight Cents ($2415.38) Dollars, made by Thomas Jerkovich, widower, to Home Owners' Loan Corporation, the grantee herein, dated May 22nd, 1934 and recorded in Book 1704 of Mortgages for Hudson County, pages 465 which mortgage is not to merge hereby.

This conveyance is also made subject to all municipal liens and restrictions of record, if any. This conveyance is made for the purpose of conveying all of the right, title and interest of the party of the first part and is not intended as further security for said mortgage debt.

TOGETHER with all and singular the houses, buildings, trees, ways, waters, profits, privileges, and advantages, with the appurtenances to the same belonging or in any wise appertaining:

ALSO all the estate, right, title, interest, property, claim and demand whatsoever, of the said part of the first part, of, in and to the same, and of, in and to every part and parcel thereof. TO HAVE AND TO HOLD all and singular the above described land and premises, with the appurtenances, unto the said party of the second part, its successors and assigns, to the only proper use, benefit and behoof of the said party of the second part, its successors and assigns forever: and the said Thomas Jerkovich, does for himself, his heirs, executors and administrators, covenant and agree to and with the said party of the second part, its successors and assigns, that he, the said Thomas Jerkovich, the true, lawful and right owner of all and singular the above described land and premises, and of every part and parcel thereof, with the appurtenances thereunto belonging: and that the said land and premises, or any part thereof, at the time of the sealing anddelivery of these presents, are not encumbered by any mortgage, judgment, or limitation, or by any encumbrance whatsoever, by which the title of the said party of the second part, hereby made or intended to be made, for the above described land and premises, can or may be changed, charged, altered or defeated in any way whatsoever, except as hereinbefore stated: AND ALSO that the said party of the first part now has good right, full power and lawful authority, to grant, bargain, sell and convey the said land and premises in manner aforesaid.

AND ALSO that he, the said Thomas Jerkovich, will WARRANT, secure, and forever defend the said land and premises unto the said party of the second part, its successors and assigns, forever, against the lawful claims and demands of all and every person or persons, freely and clearly freed and discharged of and from all manner of encumbrance whatsoever.

IN WITNESS THEREOF the said partyof the first part has hereunto set his hand and seal the day and year first above written.

SIGNED, SEALED AND DELIVERED THOMAS JERKOVICH (L.S.)

IN THE PRESENCE OF NO REV STAMPS

J. FRANK FINN

DEEDS—2048

COMPARED
BLOCK #1743
C.A.M. H.C.P.

HOME OWNERS' LOAN CORPORATION
TO
DIGO DAN LEGAC, ET UX,

DEED DATED
November 12, 1943

THIS INDENTURE made the 12th day of November in the year of our Lord one thousand nine hundred and Forty-three.

BETWEEN HOME OWNERS' LOAN CORPORATION, a corporate instrumentality of the United States of America, organized and existing under and by virtue of an Act of the Congress of the United States of America, known as the Home Owners' Loan Act of 1933, as amended, and having its principal office in the city of Washington, District of Columbia, hereinafter described as the party of the first part;

AND Digo Dan Legac and Milka Legac, his wife, 10 - 5th Street, of the Township of Weehawken, in the County of Hudson and State of New Jersey hereinafter described as the party of the second part;

WITNESSETH: that the said party of the first part, for and in consideration of the sum of One dollar and other good and valuable consideration lawful money of the United States of America, to it in hand well and truly paid by the said party of the second part, at or before the ensealing and delivery of these presents, the receipt whereof is hereby acknowledged, the said party of the first part does give, grant, bargain, sell, alien, release, enfeoff, convey and confirm, unto the said party of the second part, and to their heirs, successors, and assigns forever,

ALL that certain tract or parcel of land and premises hereinafter particularly described, situate, lying and being in the City of Hoboken, County of Hudson and State of New Jersey.

Known and distinguished upon a certain map entitled, "Map of property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased," surveyed and laid out into lots November 1860 by Daniel Ewen and Austin D. Ewen, City Surveyors, New York, filed in the office of the Clerk, now Register of the said County of Hudson as lot number seven (7) in block number twelve (12) fronting and facing on the easterly side of Harrison Street, as reference to said map will more fully appear and which is bounded and described as follows: Westerly by Harrison Street twenty-five (25) feet; easterly by lot number eleven (11) in said Block, twenty-five (25) feet; northerly by the rear of lots numbered eight (8), nine (9) and ten (10) in said block, seventy-five (75) feet, and southerly by lot number six (6) in said block, seventy-five feet (75).

BEING the same premises conveyed to the party of the first part hereto by deed of Thomas Jerkovich, widower, dated April 12, 1943 and recorded in the Register's Office of Hudson County on April 16, 1943 in Book 2031 of Deeds Page 226.

(e) Existing leases and tenancies, if any.

(f) Any special levies, or assessments which may affect the premises at the time of the delivery of the deed, and which are, or may become, payable subsequent to the date of delivery of the deed, either in installments or otherwise.

TOGETHER with all and singular the houses, buildings, trees, ways, waters, profits, privileges, and advantages, with the appurtenances to the same belonging or in anywise appertaining;

ALSO, all the estate, right, title, interest, property, claim and demand whatsoever, of the said party of the first part, of, in and to the same, and of, in and to every part and parcel thereof;

TO HAVE AND TO HOLD, all and singular the above described land and premises, with the appurtenances, unto the said party of the second part, their heirs, successors and assigns, to the only proper use, benefit and behoof of the said party of the second part, their heirs, successors and assigns, forever.

AND the said HOME OWNERS' LOAN CORPORATION, a corporation as aforesaid does for itself, its successors and assigns, covenant, promise and agree to and with the said party of the second part, their heirs, successors and assigns that it has not made, done, committed, executed or suffered any act or acts, thing or things whatsoever, whereby or by means whereof the above mentioned and described premises, or any part or parcel thereof, now are, or at any time hereafter shall or may be impeached, charged or encumbered, in any manner or way whatsoever.

IN WITNESS WHEREOF the said party of the first part hath caused its corporate seal to be hereto affixed and attested by its Regional Treasurer and these presents to be signed by its Asst.Regional Manager the day and year first above written.

HOME OWNERS' LOAN CORPORATION

Attest:

Chas. B. Lyddane
Regional Treasurer

(U. S. R. S. $1.65)

Home Owners' Loan Corporation Washington D.C.

by Robert M. Kerr, Jr.
Asst.Regional Manager

TO HAVE AND TO HOLD said premises with the appurtenances, unto the said grantee their heirs and assigns forever.

The said Joseph Getlik COVENANTS:

1. That he is lawfully seized of the said land.
2. That he has the right to convey the said land to the grantee.
3. That the grantees shall have quiet possession of the said land free from all incumbrances.
4. That the grantor will execute such further assurances of the said land as may be requisite.
5. That he will warrant generally the property hereby conveyed.

IN WITNESS WHEREOF, the said grantor has set his hand and seal the day and year first above written.

SIGNED, SEALED AND DELIVERED) IN THE PRESENCE OF (U.S.R.S.$0.55 — JOSEPH GETLIK (L. S.)

STEPHEN P. PIGA

STATE OF NEW JERSEY)
COUNTY OF HUDSON)SS:

BE IT REMEMBERED That on this thirty-first day of July in the year one thousand nine hundred and forty-four before me, a Master in Chancery of New Jersey, personally appeared Joseph Getlik who, I am satisfied, is the grantor in the within Indenture named, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

STEPHEN P. PIGA
Master in Chancery of N. J.

RECEIVED IN THE OFFICE AND RECORDED AUGUST 5, 1944, at 9:11 A. M., No. 6115
*** C. N. ***
****

BLK #1743

DIGO DAN LEGAC, ET UX
TO
THOMAS JERKOVICH

DEED
DATED
JULY 24th, 1944

COMPARED: K. C. Filmb

THIS INDENTURE, Made the 24th day of July in the year One Thousand Nine Hundred and Forty-four.

BETWEEN DIGO DAN LEGAC and MILKA LEGAC, his wife, 10 - 5th Street, township of Weehawken in the County of Hudson and State of New Jersey of the first part and

THOMAS JERKOVICH, of the City of Hoboken, in the County of Hudson andState of New Jersey, of 159 First Street, Hoboken, New Jersey, of the second part:

WITNESSETH, That the said party of the first part, for and in consideration of One Dollar and other good and valuable consideration, lawful money of the United States of America, to us in hand well and truly paid by the said part_ of the second part, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the said parties of the first part being therewith fully satisfied, contented and paid, have given, granted, bargained, sold, aliened, released, enfeoffed, conveyed and confirmed, and by these presents does, give, grant, bargain, sell, alien, release, enfeoff, convey and confirm unto the said part_ of the second part, and to his heirs and assigns, forever, ALL that tract or parcel of land and premises, hereinafter particularly described, situate,

STATE OF NEW JERSEY)
)SS:
COUNTY OF HUDSON)

BE IT REMEMBERED, That on this 24th day of July in the year One Thousand Nine Hundred and forty-four before me, the subscriber, a notary public of New Jersey personally appeared Digo Dan Legac and Milka Legac, his wife who, I am satisfied, are the grantors mentioned in the within Instrument, and to whom I first made known the contents thereof, and thereupon they acknowledged that they signed, sealed and delivered the same as their voluntary act and deed, for the uses and purposes therein expressed.

JOSEPH A. CARLUCCIO

(No N.P.SEAL) Notary Public, N. J.

RECEIVED IN THE OFFICE AND RECORDED AUGUST 5, 1944, at 9:12 A. M., No. 6116

*** C. N. ***

****

BLK #724

COMPARED, K.F.M.

ANNIE MC DONOUGH

TO

STEPHEN CSASZAR, ET UX

DEED

DATED

AUGUST 3rd, 1944

THIS INDENTURE, Made the third day of August in the year One Thousand Nine Hundred and forty-four

BETWEEN ANNIE MC DONOUGH, widow, of the City of Jersey City, County of Hudson, and State of New Jersey, party of the first part

AND STEPHEN CSASZAR and LILLIAN CSASZAR, his wife, 439 Mallory Avenue, of the City of Jersey City, County of Hudson, and State of New Jersey, parties of the second part:

WITNESSETH, That the said party of the first part, for and in consideration of One Dollar and other valuable consideration, lawful money of the United States of America, to her in hand well and truly paid by the said parties of the second part, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the said party of the first part being therewith fully satisfied, contented and paid, has given, granted, bargained, sold, aliened, released, enfeoffed, conveyed and confirmed, and by these presents does give, grant, bargain, sell, alien, release, enfeoff, convey and confirm unto the said parties of the second part, and to their heirs and assigns, forever, ALL that lot, tract or parcel of land and premises, hereinafter particularly described, situate, lying and being in the City of Jersey City in the County of Hudson and State of New Jersey.

BEGINNING at a point in the northwesterly line of Mallory Avenue, distant one hundred and sixty-six feet and five-tenths of a foot (166.5) northeasterly from the corner formed by the intersection of said northwesterly line of Mallory Avenue with the northeasterly line of Duncan Avenue, and from said beginning point running (1) northwesterly parallel with Duncan Avenue, to, through and beyond the center of a party wall, standing partly on the premises hereby conveyed and partly on the premises adjoining the same on the southwest, one hundred (100) feet to a point; thence (2) northeasterly parallel with Mallory Avenue, sixteen feet and seven-tenths of a foot (16.7) to a point; thence (3) southeasterly parallel with Duncan Avenue, to, through and beyond the center of a party wall standing partly on the premises hereby conveyed and partly on the premises adjoining the same on the northeast one hundred (100) feet to said northwesterly line of Mallory Avenue; thence (4) southwesterly along said northwesterly line of Mallory Avenue, sixteen feet and seven-tenths of a foot (16.7) to

RECORDED
REGISTER'S OFFICE
HUDSON COUNTY

1953 DEC 30 PM 12 51

JERSEY CITY
WILLIAM L. JOHNSTON
REGISTER

STATE OF NEW JERSEY : BK 257 PG 362

: ss.

COUNTY OF HUDSON :

BE IT REMEMBERED that on this 19th day of November, 1953, before me, the subscriber, personally appeared ANNA JERKOVICH, widow of THOMAS JERKOVICH, JOHN JERKOVICH, unmarried, LOUIS JERKOVICH, unmarried, STEPHEN JERKOVICH, unmarried, GEORGE JERKOVICH and MADELINE JERKOVICH, his wife, JOSEPH JERKOVICH and FILOMENA JERKOVICH, his wife, FRANK JERKOVICH and EMILY JERKOVICH, his wife, and MARY CARUSO and HENRY CARUSO, her husband, who, I am satisfied, are twelve of the grantors mentioned in the within deed, to whom I first made known the contents thereof, and thereupon they acknowledged that they signed, sealed and delivered the same as their voluntary act and deed, for the uses and purposes therein expressed.

FRAN TARTAGLIA
Master of the Superior Court of
New Jersey

Serial A 32297 DISTRICT OF COLUMBIA

103—DEED - BARGAIN AND SALE (COVENANT AGAINST GRANTOR) IND. TO IND. OR CORP. D G R V T

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This Deed, *made the* 15th *day of* December, *19* 80,

Between ELSIE MUSTO; a widow

residing at 69 Harrison Street, *in the* City *of* Hoboken, *in the County of* Hudson *and State of* New Jersey, *herein designated as the Grantors,*

and ALEXANDER RIOS, JR., single

COUNTY OF HUDSON
CONSIDERATION 22,500.00
REALTY TRANSFER FEE 22.50
DATE 12/15/80

about to be *residing or located at* 69 Harrison Street, *in the* City *of* Hoboken, *in the County of* Hudson *and State of* New Jersey, *herein designated as the Grantees;*

Witnesseth, that the Grantors, for and in consideration of the sum of TWENTY-TWO THOUSAND FIVE HUNDRED DOLLARS ($22,500.00)

lawful money of the United States of America, to the Grantors in hand well and truly paid by the Grantees, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents grant, bargain, sell and convey unto the Grantees forever,

All that certain *tract or parcel of land and premises, situate, lying and being in the* City of Hoboken *in the County of* Hudson *and State of New Jersey, more particularly described herein.*

1743

Tax Map Reference
(NJS 46:15-2.1) Municipality of: Hoboken *Account No.*
Block No. 12 *Lot No.* 7
☐ *No property tax identification number is available on date of this deed. (Check box if applicable.)*

Known and distinguished upon a certain map entitled "Map of property situated at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased," surveyed and laid out into lots November, 1860 by Daniel Ewen and Austin D. Ewen, City Surveyors, New York, filed in the Office of the Clerk, now Register, of the said County of Hudson as Lot Number Seven (7) in Block Number Twelve (12), fronting and facing on the easterly side of Harrison Street, as reference to said map will more fully appear and which is bounded and described as follows: Westerly by Harrison Street, twenty-five (25) feet; Easterly by Lot Number Eleven (11) in said Block, twenty-five (25) feet; Northerly by the rear of Lots Numbered Eight (8), Nine (9) and Ten (10) in said Block, seventy-five (75) feet; and southerly by Lot Number Six (6) in said Block, seventy-five (75) feet.

Being commonly known as and by street number 69 Harrison Street, Hoboken, New Jersey.

Being the same premises conveyed to Elsie Musto and Thomas Musto, her husband, by deed of Anna Jerkovich, widow, et als, dated November 19, 1953 and recorded in the Hudson County Register's Office December 30, 1953 in Book 2574 of Deeds for said County, page 359. The said Thomas Musto having since departed this life, i.e. on September 18, 1974 while still married to the Grantor herein who has never remarried.

RTF-1 (Rev. 9/1/75)

STATE OF NEW JERSEY
AFFIDAVIT OF CONSIDERATION OR EXEMPTION
(c. 49, P.L. 1968)
or
PARTIAL EXEMPTION
(c. 176, P.L. 1975)
To Be Recorded With Deed Pursuant to c. 49, P.L. 1968 (N.J.S.A. 46:15-5 et seq.)

STATE OF NEW JERSEY }
ss.
COUNTY OF HUDSON

FOR RECORDER'S USE ONLY
Consideration $ 22,500.00 C
Realty Transfer Fee $ 22.50
Date 12-15-80 By

*Use symbol "C" to indicate that fee is exclusively for county use.

(1) PARTY OR LEGAL REPRESENTATIVE (See Instruction #3)

ELSIE MUSTO, a widow, being duly sworn according to law upon his oath deposes and says that he is the

Grantor
(State whether Grantor, Grantee or Legal Representative; if Legal Representative, specify in what capacity)

in the deed between

Elsie Musto, a widow, 69 Harrison St., Hoboken, N. J. 07030
(Name and Address of Grantor)

Alexander Rios, Jr., single, 69 Harrison St., Hoboken, N. J. 07030
(Name and Address of Grantee)

dated December 15, 1980 and annexed hereto.

(2) OFFICER OF CORPORATE GRANTOR OR CORPORATE GRANTEE (See Instruction #4)

Deponent states that he is the _____ (Title of Corporate Officer) of _____ (Name of Corporate Grantor or Grantee), and that he is fully acquainted with the business of said corporation and knows the actual and full consideration paid or to be paid for the transfer of title to the premises described in the deed annexed hereto.

(3) OFFICER OF TITLE COMPANY OR LENDING INSTITUTION (See Instruction #5)

Deponent states that he is the _____ (Title) of _____ (Name of Title Company or Lending Institution) participating in the deed transaction herein described and that he knows the actual and full consideration paid or to be paid for the transfer of title to the premises described in the deed annexed hereto.

(4) CONSIDERATION (See Instruction #6)

Deponent states that, with respect to deed hereto annexed, the actual amount of money and the monetary value of any other thing of value constituting the entire compensation paid or to be paid for the transfer of title to the lands, tenements or other realty, including the remaining amount of any prior mortgage to which the transfer is subject or which is to be assumed and agreed to be paid by the grantee and any other lien or encumbrance thereon not paid, satisfied or removed in connection with the transfer of title is $ 22,500.00

(5) LOCATION OF PROPERTY

Deponent states that the real property transferred by the deed annexed hereto is located in

Hoboken
(Taxing District(s))

and Hudson
(County(ies))

(6) EXEMPTION FROM FEE (Complete only if exemption from fee or any part thereof is claimed.)
CHECK APPROPRIATE BLOCK BELOW.

Deponent claims that this deed transaction was exempt from the realty transfer fee imposed by c. 49, P.L. 1968 [ ] (See instruction #7) or is exempt from the increased fee imposed by c. 176, P.L. 1975 [X] (See instruction #8) for the following reason(s) a one-family dwelling occupied by senior citizen

Deponent makes affidavit to induce the County Clerk or Register of Deeds to record the deed and accept the fee submitted herewith in accordance with the provisions of c. 49, P.L. 1968.

Subscribed and Sworn to before me this 15th day of December, 1980.

PETER J. GIORDANO
ATTORNEY AT LAW OF N. J.

Elsie Musto
ELSIE MUSTO (Name of Deponent)
69 Harrison Street,
Hoboken, N. J. 07030
(Address of Deponent)

FOR OFFICIAL USE ONLY
This space for use of County Clerk or Register of Deeds.
Instrument Number 6261 County Hudson
Deed Number Book Page
Deed Dated 12-15-80 Date Recorded 12-15-80

BK 3313 332

IMPORTANT – BEFORE COMPLETING THIS AFFIDAVIT, PLEASE READ THE INSTRUCTIONS ON THE REVERSE SIDE HEREOF.

This form is prescribed by the Director, Division of Taxation in the Department of the Treasury, as required by law, and may not be altered or amended without the approval of the Director.

ORIGINAL – White copy to be retained by County.
DUPLICATE – Yellow copy to be forwarded by County to Division of Taxation, pursuant to N.J.A.C. 18:16-8.12.

WHITE AND YELLOW COPIES MUST BE SUBMITTED WITH DEED TO COUNTY RECORDING OFFICER.

103—DEED - BARGAIN AND SALE (Covenant as to Grantor's Acts) IND. TO IND. OR CORP. — Plain Language G VS -1

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Prepared by: (Sign signer's name below signature)

LEONARD H. FRANCO, ESQ.

005556

DEED

This Deed is made on JULY 12, 19 89, BETWEEN

ALEXANDER RIOS, JR., SINGLE,

whose address is 69 HARRISON STREET, HOBOKEN, NJ,

referred to as the Grantor,

AND

V. PONTE & SONS, INC.,

whose post office address is 2 HOPE STREET, JERSEY CITY, NJ

referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of ONE HUNDRED TWENTY THOUSAND AND 00/100——($120,000.00)——DOLLARS. The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of HOBOKEN
Block No. 12 Lot No. 7 Account No.

☐ No property tax identification number is available on the date of this deed. (Check box if applicable.)

Property. The property consists of the land and all the buildings and structures on the land in the CITY of HOBOKEN
County of HUDSON and State of New Jersey. The legal description is:

KNOWN AND DISTINGUISHED upon a certain map entitled "Map of property situated at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased," surveyed and laid out into lots November, 1860 by Daniel Ewen and Austin D. Ewen, City Surveyors, New York, filed in the Office of the Clerk, now register, of the said County of Hudson as Lot Number Seven (7) in Block Number Twelve (12), fronting and facing on the easterly side of Harrison Street, as reference to said map will more fully appear and which is bounded and described as follows: Westerly by Harrison Street twenty-five (25) feet; Easterly by Lot Number Eleven (11) in said Block, twenty-five feet; Northerly by the rear of Lots Numbered Eight (8), Nine (9) and Ten (10) in said Block, seventy-five (75) feet; and southerly by Lot Number Six (6) in said Block, seventy-five feet.

BEING commonly known as and by street number 69 Harrison Street, Hoboken, New Jersey,

BEING also known as Lot 7 in Block 12 on the Official Tax Map of the City of Hoboken.

BEING the same premises conveyed to the Grantor herein by deed from Elsie Musto, a widow dated December 15, 1980, recorded December 15, 1980 in book 3313, page 330, in the Hudson County Register's Office.

Consideration $ 120,000.00 R.F. 60.00
Realty Transfer Fee 720.00 Rec.
Add'l. Fee
Add'l. N.C.
By: Total $ 420.00 Ant. Rec. 420.00

RECEIVED
1989 JUL 18 PM 2:56

DEED

Dated: JULY 12, 1989

ALEXANDER RIOS, SINGLE,

Grantor.

TO

V. PONTE & SONS, INC.

Grantee.

Record and return to:

Eugene P. O'Connell, Esq.
544 Summit Ave.
Jersey City, NJ 07306

RECEIVED
1989 DEC 13 AM 8:15

BK4170PG007

NC 1845—AFFIDAVIT OF CONSIDERATION
RTF-1 (Rev. 1/1/88)

STATE OF NEW JERSEY
AFFIDAVIT OF CONSIDERATION OR EXEMPTION
(c. 49, P.L. 1968)
or
PARTIAL EXEMPTION
(c. 176, P. L. 1975)

ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N. J. 07016
RV T—1

To Be Recorded With Deed Pursuant to c. 49, P.L. 1968, as amended by c. 225, P.L. 1985 (N.J.S.A. 46:15-5 et seq.)

STATE OF NEW JERSEY
COUNTY OF BERGEN } ss.

FOR RECORDER'S USE ONLY
Consideration $ _____
Realty Transfer Fee $ _____ *
Date 1-15-91 By _____
*Use symbol "C" to indicate that fee is exclusively for county use.

(1) PARTY OR LEGAL REPRESENTATIVE (See Instructions #3, 4 and 5 on reverse side)

Deponent, ANGELO J. PONTE (Name), being duly sworn according to law upon his/her oath deposes and says that he/she is the Secretary of V. PONTE & SONS, INC. (State whether Grantor, Grantee, Legal Representative, Corporate Officer, Officer of Title Co., Lending Institution, etc.)

in a deed dated December 3, 1990, transferring real property identified as Block No. 12

Lot No. 7, located at 69 Harrison Street, Hoboken, New Jersey (Street Address, Municipality, County)

_____ and annexed hereto.

(2) CONSIDERATION (See Instruction #6)

Deponent states that, with respect to deed hereto annexed, the actual amount of money and the monetary value of any other thing of value constituting the entire compensation paid or to be paid for the transfer of title to the lands, tenements or other realty, including the remaining amount of any prior mortgage to which the transfer is subject or which is to be assumed and agreed to be paid by the grantee and any other lien or encumbrance thereon not paid, satisfied or removed in connection with the transfer of title is $ _____

(3) FULL EXEMPTION FROM FEE Deponent claims that this deed transaction is fully exempt from the Realty Transfer Fee imposed by c.49, P.L. 1968, for the following reason(s): Explain in detail. (See Instruction #7.) Mere reference to exemption symbol is not sufficient.

The amount of consideration is less than one hundred dollars.

(4) PARTIAL EXEMPTION FROM FEE *NOTE: All boxes below apply to grantor(s) only. ALL BOXES IN APPROPRIATE CATEGORY MUST BE CHECKED. Failure to do so will void claim for partial exemption. (See Instructions #8 and #9)*

Deponent claims that this deed transaction is exempt from the increased portion of the Realty Transfer Fee imposed by c.176, P.L. 1975 for the following reason(s):

a) **SENIOR CITIZEN** (See Instruction #8)
- ☐ Grantor(s) 62 yrs. of age or over.*
- ☐ One or two-family residential premises
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

b) **BLIND** (See Instruction #8)
- ☐ Grantor(s) legally blind.*
- ☐ One or two-family residential premises.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

DISABLED (See Instruction #8)
- ☐ Grantor(s) permanently and totally disabled.*
- ☐ One or two-family residential premises.
- ☐ Receiving disability payments.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ Not gainfully employed.
- ☐ No joint owners other than spouse or other qualified exempt owners.

*IN THE CASE OF HUSBAND AND WIFE, ONLY ONE GRANTOR NEED QUALIFY.

c) **LOW AND MODERATE INCOME HOUSING** (See Instruction #8)
- ☐ Affordable According to H.U.D. Standards.
- ☐ Meets Income Requirements of Region.
- ☐ Reserved for Occupancy.
- ☐ Subject to Resale Controls.

d) **NEW CONSTRUCTION** (See Instruction #9)
- ☐ Entirely new improvement.
- ☐ Not previously used for any purpose.
- ☐ Not previously occupied.

Deponent makes this Affidavit to induce the County Clerk or Register of Deeds to record the deed and accept the fee submitted herewith in accordance with the provisions of c. 49, P.L. 1968.

Subscribed and Sworn to before me
this 3
day of December, 1990

Joseph A. Foglia
Attorney at Law
State of New Jersey

Name of Deponent (sign above line) — V. PONTE & SONS, INC. Name of Grantor (type above line)

2 Hope St., Jersey City, NJ — Address of Deponent

2 Hope Street, Jersey City, NJ — Address of Grantor at Time of Sale

FOR OFFICIAL USE ONLY This space for use of County Clerk or Register of Deeds.
Instrument Number 00271 County _____
Deed Number _____ Book _____ Page _____
Deed Dated 12-3-90 Date Recorded 1-15-91

IMPORTANT - BEFORE COMPLETING THIS AFFIDAVIT, PLEASE READ THE INSTRUCTIONS ON THE REVERSE SIDE HEREOF.
This form is prescribed by the Director, Division of Taxation in the Department of the Treasury, as required by law, and may not be altered or amended without the approval of the Director.
ORIGINAL — White copy to be retained by County.
DUPLICATE — Yellow copy to be forwarded by County to Division of Taxation on partial exemption from fee (N.J.A.C. 18:16—8.12).
TRIPLICATE — Pink copy is your file copy.

BK4365PG279

34

DEED

Dated: december 3 , *19* 90

V. PONTE & SONS, INC.

Grantor.

TO

PONTE EQUITIES INC.

Grantee.

Record and return to:

LAW OFFICE OF JOSEPH A. FOGLIA
171 E. Ridgewood Ave.
Ridgewood, New Jersey 07450

BK 4365 PG 281

W 920—Executors Deed
To Indiv. or Corp.

JULIUS BLUMBERG, INC., LAW BLANK PUBLISHERS
80 EXCHANGE PLACE AT BROADWAY, NEW YORK

THIS IS A LEGAL INSTRUMENT AND SHOULD BE EXECUTED UNDER SUPERVISION OF AN ATTORNEY

ASSESSORS

This Indenture,

Made the 5th *day of* NOVEMBER *in the year*
One Thousand Nine Hundred and Seventy-Nine
Between WILLIAM M. SEWELL, JR

COUNTY OF HUDSON
CONSIDERATION 6,000.00
REALTY TRANSFER FEE 31.00
DATE 11-28-79 BY

Executor of the Last Will and Testament of EMILY I. GILL
with beneficiaries being William M. Sewell, Jr.; Mary Frances Gill; and Arthur John Gill, my grandchildren *late of the* City *of* Hoboken *in the County of* Hudson *and State of* New Jersey *parties of the first part;*

And Mr. George Denaris and his wife, Mrs. Mildred Denaris of 69 Harrison Street, Hoboken, NJ

parties of the second part

Witnesseth, *That the said parties of the first part, by virtue of the power and authority to him given in and by said Last Will and Testament, and for and in consideration of the sum of*

Six-Thousand Dollars ($6,000.00)

lawful money of the United States of America, to be given *in hand paid by the said parties of the second part, at, or before the ensealing and delivery of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold and conveyed, and by these presents do grant, bargain, sell and convey unto the said parties of the second part, and to* their heirs *and assigns forever;* All

that certain lot tract or parcel of land and premises situate

tract or parcel of land and premises, hereinafter particularly described, situate, lying and being in the City *of* Hoboken *in the County of* Hudson *and State of New Jersey*; which on a map of Property situate at Hoboken, Hudson County New Jersey belonging to Estate of John G. Closter, deceased, surveyed and laid out in lots November 1860 by Daniel Ewen, Austin D. Ewen, the surveyors, now on file in the Office of the Register of the said County of Hudson, is known and listed as Lot Number Eleven(11) in Block numbered Twelve (12). For dimensions reference had to said map will more fully appear. and later by virtue of the Last Will and Testament of Mary Ann Kelly probated in the Hudson County Surrogate's Court on the 23rd day of November 1954, bequeathing said property and premises to Emily Gill, now deceased on the 21st day of April 1979, and whose Last Will and Testament was probated on the 22nd day of October 1979 and who bequeathed said property and premises to the parties of the first part as above.

Known as 59 Paterson Avenue, Hoboken, N.J.

1743

S 9.16.86
S 4.6.87
L/S 9.29.88

STATE OF NEW JERSEY,
COUNTY OF } ss.:

BE IT REMEMBERED, that on this 5TH day of November 19 79 before me, the subscriber, a Notary Public of the State of New Jersey personally appeared William M. Sewell,Jr;Mary Frances Gill; and Arthur John Gill

who, I am satisfied, are the grantor mentioned in the within Deed, and thereupon acknowledged that they signed, sealed and delivered the same as their act and deed, for the uses and purposes therein expressed.

The full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1(c), is $

Carmine P. Giordano

CARMINE P. GIORDANO

CARMINE P. GIORDANO
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Dec. 7, 1983

6711

11.85

WILLIAM M. SEWELL, JR.
MARY FRANCES GILL,
ARTHUR JOHN GILL
TO
GEORGE DEMARIS and his wife, MILDRED DEMARIS

X 1743

Dated, Nov. 5, 1979

Recorded in the Office of the County of on the day of A.D., 19 , at o'clock, in the noon and Recorded in Book of DEEDS for said County, on page

RR TO: George and Mildred Demaris, 59 Paterson Avenue, Hoboken, NJ 07030

RECEIVED
NOV 28 10 07 AM '79
HUDSON COUNTY
REGISTER OF DEEDS

3290 220

TOGETHER, with all and singular the rights, liberties, privileges, hereditaments and appurtenances thereunto belonging or in anywise appertaining, and the reversion and remainders, rents, issues and profits thereof, and also all the estate, right, title, interest, use, property, claim and demand of the said defendants of, in, to and out of the same, to be sold, to pay and satisfy in the first place unto the plaintiff, BANKERS TRUST COMPANY OF CALIFORNIA, NA AS CUSTODIAN OR TRUSTEE, the sum of $103,297.90 being the principal, interest and advances secured by a certain mortgage dated MARCH 21, 1995 and given by GEORGE DENARIS AND MILDRED DENARIS, HIS WIFE, together with lawful interest from SEPTEMBER 30, 1997 until the same be paid and satisfied and also the costs of the aforesaid plaintiff with interest thereon.

AND for that purpose a Writ of Execution should issue, directed to the Sheriff of the County of HUDSON commanding him to make sale as aforesaid; and that the surplus money arising from such sale, if any there be, should be brought into our said Court, as by the judgment remaining as of record in our said Superior Court of New Jersey, at Trenton, doth and more fully appear; and whereas, the costs and Attorney's fees of the said plaintiff have been duly taxed at the following sum: $1,582.02

THEREFORE, you are hereby commanded that you cause to be made of the premises aforesaid, by selling so much of the same as may be needful and necessary for the purpose, the said sum of $103,297.90 and the same you do pay to the said plaintiff together with contract and lawful interest thereon as aforesaid, and the sum aforesaid of costs with interest thereon.

And that you have the surplus money, if any there be, before our said Superior Court of New Jersey, aforesaid at Trenton, within thirty (30) days after pursuant to R. 4:59-1(a), to abide the further Order of the said Court, according to judgment aforesaid, and you are to make return at the time and place aforesaid, by certificate under your hand, of the manner in which you have executed this our Writ, together with this Writ, and if no sale, this Writ shall be returnable within twelve (12) months.

WITNESS, the Honorable ANTHONY J. PARRILLO, P.J.CH., Judge of the

CHAPTER 225, LAWS OF N.J. 1979
(APPROVED OCTOBER 12, 1979)

1. Whenever an application is made to the sheriff of any county for the sale of any real property, whether under execution or pursuant to any other writ, judgment or order, the sheriff shall not proceed with such sale unless and until the applicant shall furnish to the sheriff a statement, under oath, listing the names of all mortgagees and other holders of encumbrances constituting "consideration" as defined in section 1(c) of the act to which this act is a supplement (c. 46:15-5 (c)), to which such sale shall be subject.

Upon the preparation of a deed for any real property sold as herein provided, the sheriff shall cause to be attached to such deed the statement of prior mortgages, liens or encumbrances furnished by the applicant.

Upon the recordation of any deed to real property executed by a sheriff as herein provided, the realty transfer fee shall be computed upon the amount bid for the property plus the remaining amount of any superior mortgages, liens or encumbrances constituting "consideration" as defined in the said section 1(c) C. 46:15-5 (c), provided, however, that nothing herein contained shall be construed to subject to the payment of a fee any deed excluded pursuant to section 6 of P.L. 1968, c. 49 (c. 46:15-10).

The director shall promulgate rules, regulations and forms of certification as otherwise necessary to carry out the provisions of this act.

2. This act shall take effect on the first day of the second month following enactment.

NEW JERSEY ADMINISTRATIVE CODE 18:16-4.6
CALCULATION OF FEE ON A SHERIFF'S DEED

(a) As a general rule, in the case of a sheriff's deed confirming a sheriff's sale, the amount of the realty transfer fee shall be computed upon the amount of the accepted bid for the property sold.

1. Where, however, the sale is for delinquent taxes of assessments, no fee is imposed.

2. Where a deed to real estate is executed by a sheriff to a mortgagee who bids in property at a foreclosure sale to satisfy a mortgage lien, the Realty Transfer Fee will be computed upon the amount bid for the property plus the remaining amount of any superior mortgage liens.

Superior Court at Trenton, aforesaid, the 7TH day of OCTOBER in the year of our Lord One Thousand Nine Hundred and Ninety-SEVEN

/s/ Donald F. Phelan, Clerk
Superior Court of New Jersey

Attorneys for Plaintiff
By: /s/ ANDREW P. ZACHARDA
for the Firm

As by the record of said Writ of Execution in the Office of the Superior Court of New Jersey, at Trenton, in Book F-97 of Executions, Page 12638 etc, may more fully appear.

AND WHEREAS I, the said JOSEPH T. CASSIDY, as such Sheriff as aforesaid did in due form of law, before making such sale give notice of the time and place of such sale by public advertisement signed by myself, and set up in my office in the Administration Building in Hudson County, being the County in which said real estate is situate and also set up at the premises to be sold at least three weeks next before the time appointed for such sale.

I also caused such notice to be published four times in two newspapers designated by me and printed and published in Hudson County, the County wherein the real estate sold is situate at least once a week during four consecutive calendar weeks. One of such newspapers is a newspaper printed and published in Jersey City, the County seat of said Hudson County. The first publication was at least twenty-one days prior and the last publication no more than eight days prior to the time appointed for the sale of such real estate, and by virtue of the said Writ of Execution, I did offer for sale said land and premises at public venue at the County Administration Building in Jersey City on the 15TH day of JANUARY One Thousand Nine Hundred and Ninety-EIGHT at the hour of two o'clock in the afternoon.

WHEREUPON the said party of the second part bidding therefore for the same, the sum of $50,100.00 and no other person bidding as much I did then and there openly and publicly in due form of law between the hours of twelve and five in the afternoon, strike off and sell tracts or parcels of land and premises for the sum of $50,100.00 to the said party of the second part being then and there the highest bidder for same.

SCHEDULE A

and assigns forever, all

that certain lot tract or parcel of land and premises situate

tract or parcel of land and premises, hereinafter particularly described, situate, lying and being in

the City of Hoboken in the County of Hudson CASTLE

and State of New Jersey ; which on a map of Property situate at Hoboken, Hudson County New Jersey belonging to Estate of John G. Closter deceased, surveyed and laid out in lots November 1850 by Daniel Ewen, Austin D. Ewen, the surveyors, now on file in the Office of the Register of the said County of Hudson, is known and listed as Lot Number Eleven(11) in Block numbered Twelve (12). For dimensions reference had to said map will more fully appear. and later by virtue of the Last Will and Testament of Mary Ann Kelly probated in the Hudson County Surrogate's Court on the 23rd day of November 1954, bequeathing said property and premises to Emily Gill, now deceased on the 21st day of April 1979, and whose Last Will and Testament was probated on the 22nd day of October 1979 and who bequeathed said property and premises to the parties of the first part as above.

Known as 59 Paterson Avenue, Hoboken, N.J.

BK 3290 - 218

A COPY OF THIS DEED HAS BEEN SENT TO ASSESSING OFFICE

BK5327PG259

S 4T 0879

DEED

JOSEPH T. CASSIDY

SHERIFF OF HUDSON COUNTY, N.J.
TO

BANKERS TRUST COMPANY NA OF CALIFORNIA
AS CUSTODIAN OR TRUSTEE
3 PARK PLAZA, 16TH FLOOR
IRVINE, CA

DATED JANUARY 26, 1997

Received in the Register's Office of the County of Hudson, N.J. on the _____ day of _____ A.D., 19____ at _____ o'clock ____M, and recorded the same day in _____Liber of Deeds on page _____.

_____Register.

BK5327PG261

SCHEDULE A

and assigns forever, All

that certain lot tract or parcel of land and premises situate

tract or parcel of land and premises, hereinafter particularly described, situate, lying and being in the City *of* Hoboken *in the County of* Hudson CLOSTER

and State of New Jersey ; which on a map of Property situate at Hoboken, Hudson County New Jersey belonging to Estate of John G. Closter deceased, surveyed and laid out in lots November 1880 by Daniel Ewen, Austin D. Ewen, the surveyors, now on file in the Office of the Register of the said County of Hudson, is known and listed as Lot Number Eleven(11) in Block numbered Twelve (12). For dimensions reference had to said map will more fully appear. and later by virtue of the Last Will and Testament of Mary Ann Kelly probated in the Hudson County Surrogate's Court on the 23rd day of November 1954, bequeathing said property and premises to Emily Gill, now deceased on the 21st day of April 1979, and whose Last Will and Testament was probated on the 22nd day of October 1979 and who bequeathed said property and premises to the parties of the first part as above.

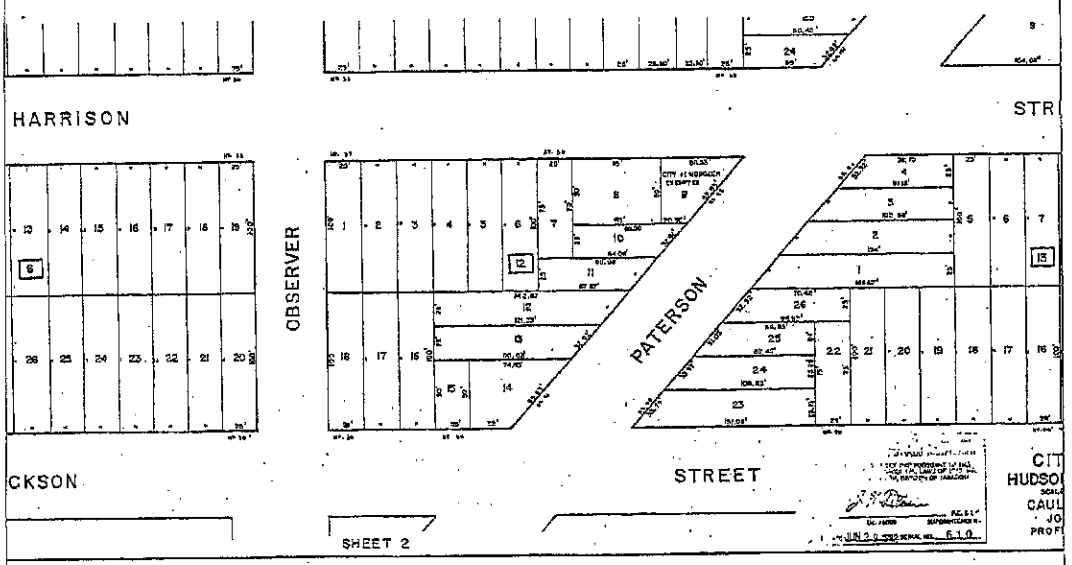
Known as 59 Paterson Avenue, Hoboken, N.J.

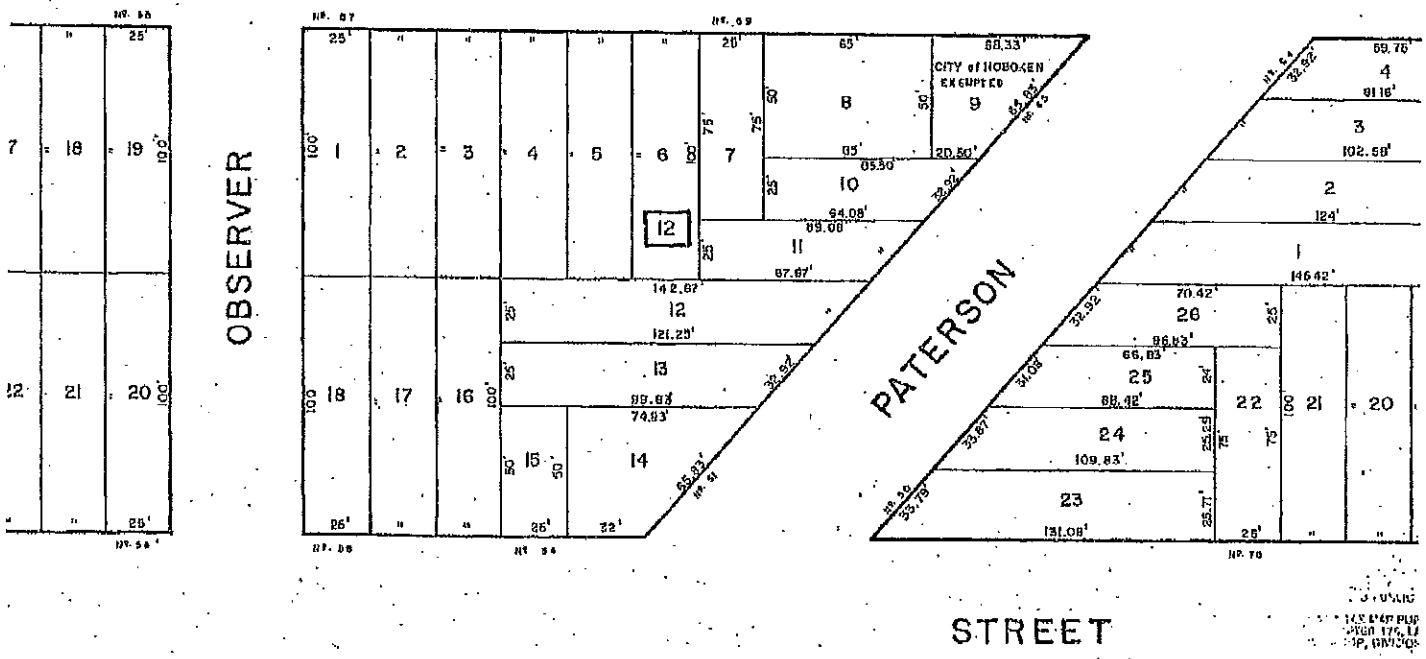
BK 3290 PG 218

A COPY OF THIS DEED HAS BEEN SENT TO ASSESSOR'S OFFICE

BK5327PG265

Property Location	
67-69 PATERSON AVE, Hoboken 07030	
District 905 (Hoboken City), Block 12, Lot 9	
Property Information	**Assessment Data**
Class: 15C - Public Property	Total Value: $60,700
Zoning:	Land Value: $60,700
Bld Description: LAND	Improvement Value:
Land Description: 1970 SQ FT CORNER	% Improvement: N/A
Acreage: 0.0452	Special Tax Codes:
Square Footage:	Deductions: Senior Veteran Widow Surv. Spouse Disabled
Usage: VACANT LAND	Count:
Year Constructed:	Exemption: 04-01-085 (Municipal Government - General Government - Vacant Land)
Use Code:	Exemption statute: 54:4-3.3
# Dwellings:	2009 Rate: 4.489; 2009 Ratio: 29.25%; 2009 Taxes: $2,725
Census Tract: 0192	2010 Rate: 4.745; 2010 Ratio: 27.16%; 2010 Taxes: $2,880
	2011 Rate: (null); 2011 Ratio: N/A; 2011 Taxes: N/A
Current Owner	**Sale Data**
MAYOR & COUNCIL	Date:
CITY OF HOBOKEN	Price:
HOBOKEN, NJ 07030	Ratio:
	Deed Book:
Previous Owner:	Deed Page:




OBSERVER
PATERSON
STREET
CITY of HOBOKEN
EXEMPTED

bargained and sold and by these presents Doth grant and convey unto the said party of the second part and to its successors and assigns forever.

All that certain lot of land situate and being in Hoboken in the County of Hudson and State of New Jersey and which is known and distinguished upon a certain map Entitled "Map of property situate at "oboken Hudson County New Jersey belonging to the Estate of John G.Coster deceased surveyed and laid out into lots November 1860 by Daniel Ewen Austen D.Ewen City Surveyors New York" filed in the Office of the Clerk of the said County of Hudson as lot number 11(Eleven) in Block number 10(Ten) and is bounded and described as follows Beginning at a point on the Easterly line of Marshall Street two hundred and fifty feet north of the northerly line of Ferry Street and running thence Easterly and parallel with Ferry Street One hundred feet to the centre line of the block thence running northerly along the said centre line twenty five feet. thence westerly and parallel with Ferry Street One hundred feet to the Easterly line of Marshall street and thence running southerly along the Easterly line of Marshall street twentyfive feet to the place of beginning And Also All that part of the two lots of land designated upon the said map as numbers 8(Eight) and 9 (Nine) in Block number 12(Twelve) which is bounded and described as follows Beginning at a point on the Easterly line of Harrison street two hundred and forty feet north of the northerly line of Ferry Street and running thence Easterly and parallel with Ferry Street fifty feet to the Westerly line of lot number ten in said Block number twelve running thence northerly along the said last mentioned line and parallel with Harrison Street twenty feet and six inches to the southerly line of Paterson avenue thence running northwesterly along the said last mentioned line sixtyfive feet and ten inches to the Easterly line of Harrison Street and thence running southerly along the said line of Harrison street fifty eight feet and four inches to the place of beginning(saving and reserving however to the said party of the first part and his successors and assigns the use of the whole of that portion of the said premises which is secondly above described for Egress and ingress from and to the portion of the said lots numbers Eight and .....

STATE OF NEW YORK }
CITY AND COUNTY OF NEW YORK } SS

Be it remembered that on this Eighth day of March A.D.1877 before me the subscriber Frederic B.Jennings a Notary Public in and for the State of New York duly commissioned and sworn and dwelling in the City of New York personally appeared Charles E.Butler in said City of New York who I am satisfied is the grantor named in the foregoing instrument and the individual described in and who executed the same as Trustee and I having first made known to him the contents thereof he did thereupon acknowledge to me that he signed sealed and delivered the same as his voluntary act and deed as Trustee as aforesaid for the uses and purposes therein Expressed.
In Witness Whereof I have hereunto set my hand and affixed my official seal the day and year last above written.

Frederick B.Jennings (SEAL)
Notary Public(15) New York Co.

STATE OF NEW YORK }
CITY AND COUNTY OF NEW YORK } SS

IHenry A.Gumbleton Clerk of the City and County of New York and also Clerk of the Supreme Court for the said City and County the same being a Court of Record Do hereby certify that Frederick B.Jennings whose name is subscribed to the certificate of the proof or acknowledgment of the annexed Instrument and thereon written was at the time of taking such proof or acknowledgment a Notary Public in and for the City and County of New York dwelling in the said City commissioned and sworn and duly authorized to take the same and further that I am well acquainted with the handwriting of such Notary and verily believe that the signature to the said Certificate of proof or acknowledgment is genuine I further Certify that said Instrument is executed and acknowledged according to the law of the State of New York
In Testimony Whereof I have hereunto set my hand and affixed the seal of the said Court and County the 9 day of Mch 1877.

Henry Gumbleton Clerk (SEAL)

Received in the Office and Recorded April 9th,1877 A.D. at 3:45 o'clock P.M.

M.C.

SELINA L.PETRIE & ADELBERT S. " her husband TO LOUISA ROOME	}	DEED DATED APRIL 9th,1877

This Indenture made the Ninth day .....

1733

tract in a deed from Charles E. Butler, Trustee of the Estate of Julia C. Reubell to the North Hudson County Railway Company, predecessor of Public Service Coordinated Transport, dated February 1, 1875, and recorded April 9, 1877 in the Register's Office of Hudson County, in Book 309 of Deeds for said County, on pages 258 &c.

TRACT 2. BEGINNING at a point formed by the intersection of the southerly line of Paterson Avenue and the easterly line of lot number Nine (9) in Block number Twelve (12) as shown on the hereinafter recited map, and running thence (1) southerly along said lot number Nine (9) and parallel with Harrison Street, twenty (20) feet and six (6) inches to a point two hundred forty (240) feet northerly from Ferry Street; thence (2) easterly along a line parallel with Ferry Street, two hundred forty (240) feet northerly therefrom to the southerly side of Paterson Avenue; thence (3) northwesterly along the said line of Paterson Avenue to the place of BEGINNING.

Being part of a lot of land designated as number Ten (10) in Block number Twelve (12) on a certain map entitled, "Map of property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots November 1860 by Daniel Ewen, Austen D. Ewen, City Surveyors, New York," filed in the office of the Clerk, now Register, of the County of Hudson.

Being the same premises described in a deed from Charles E. Butler, et ux., to the North Hudson County Railway Company, predecessor of Public Service Coordinated Transport, dated February 1, 1875, and recorded April 9, 1877 in the Register's Office of Hudson County in Book 309 of Deeds for said County, on pages 255 &c.

Both tracts are subject to restrictions and reservations as contained in the two (2) hereinabove recited deeds dated February 1, 1875.

The lands of the party of the first part in the vicinity of the lands hereby dedicated shall not be assessed for any improvements arising out of or in connection with this dedication or made upon the lands dedicated.

IN WITNESS WHEREOF the party of the first part has hereunto affixed its corporate seal and caused these presents to be signed and attested by its proper officers thereunto duly authorized, all as of the day and year first aforesaid.

PUBLIC SERVICE COORDINATED TRANSPORT
By Joseph T. Foster
Joseph T. Foster
Vice-President.

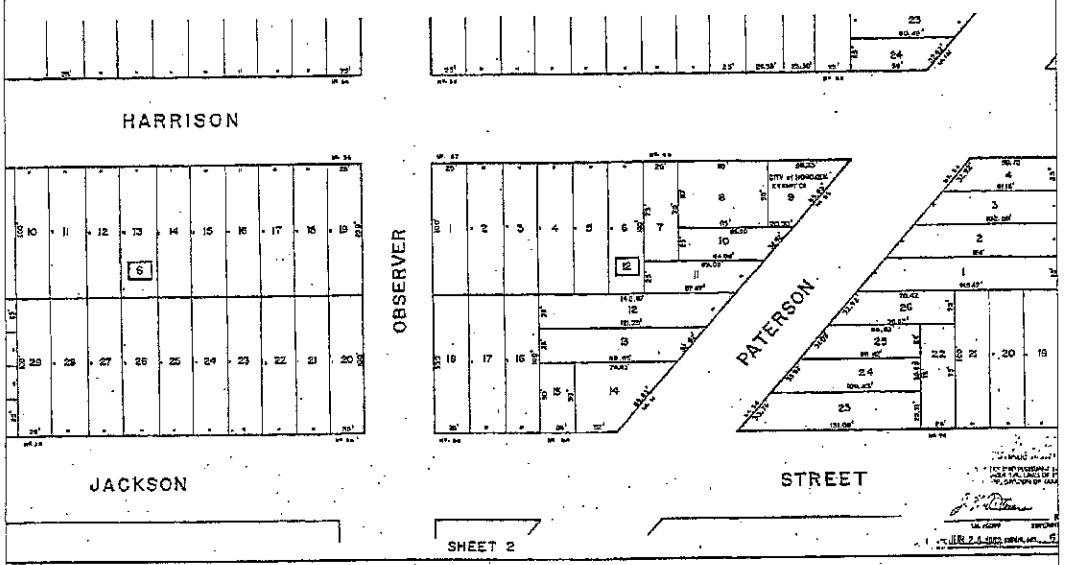
Attest: [illegible]
Secretary.

OLD = 1743

Property Location	
57-67 HARRISON ST, Hoboken 07030	
District: 805 (Hoboken City), Block: 12, Lot: 1 - Additional Lots: L2 TO 6	
Property Information	**Assessment Data**
Class: 4A - Commercial	Total Value: $245,300
Zoning:	Land Value: $240,000
Bld Description: LAND	Improvement Value: $5,300
Land Description: 150X100 CORNER	% Improvement: 2.16
Acreage: 0.3444	Special Tax Codes:
Square Footage:	Deductions: Senior Veteran Widow Surv. Spouse Disabled
Usage:	Count:
Year Constructed:	Exemption:
Use Code:	Exemption statute:
# Dwellings:	2009 Rate: 4.489; 2009 Ratio: 29.25%; 2009 Taxes: $11,012
Census Tract: 0192	2010 Rate: 4.745; 2010 Ratio: 27.16%; 2010 Taxes: $11,639
	2011 Rate: (null); 2011 Ratio: N/A; 2011 Taxes: N/A

Current Owner	Sale Data	
DEBROSSES GARAGE CORP C/O PONTE	Date:	1/15/1974
268 WEST STREET	Price:	$65,000
New York, NY 10013-1731	Ratio:	377.38%
	Deed Book:	03156
Previous Owner:	Deed Page:	00273

395 - 80



and filed in the office of the Clerk of the said County of Hudson as lots numbers One (1) two (2) three (3) four (4) five (5) six (6) Sixteen (16) Seventeen (17) and eighteen (18) in Block number twelve (12) being the same premises conveyed to the said William McCune by Charles E Butler Trustee of the estate of Julia C Rauhall by three several deeds two dated August 11th 1882 and recorded in liber 371 of deeds for Hudson County on page 339 &c and 341 &c and the other dated October 13th 1882 and recorded in liber 372 of deeds for said County on page 494 &c

Together with all and singular the houses buildings trees ways waters profits belonging or in anywise appertaining Also all the estate right title interest property claim and demand whatsoever of the said parties of the first part of in and to the same and of in and to every part and parcel thereof

To have and to hold all and singular the above described land and premises with the appurtenances unto the said party of the second part its successors and assigns to the only proper use benefit and behoof of the said party of the second part its successors and assigns forever

In Witness Whereof the said parties of the first part have hereunto set their hands and seals the day and year first above Written

Signed sealed and delivered — Wm McCune (L S)
in the presence of Samuel A Besson — Rachel McCune (L S)

State of New Jersey SS. — Be it Remembered that on
County of Hudson — this Eleventh day of September

in the year of Our Lord one thousand eight hundred and Eighty four before me Samuel A Besson a Master in Chancery of New Jersey personally appeared William McCune and Rachel his wife who I am satisfied are the Grantors in the within Deed of Conveyance named and I having first made known to them the contents thereof they did severally acknowledge that they signed sealed and delivered the same as their voluntary act and deed for the uses and purposes therein Expressed And the said Rachel McCune being by me privately examined separate and apart from her Husband did further acknowledge that she signed sealed and delivered the same as her voluntary act and deed Freely and without any fear threats or compulsion of her said Husband

Read in this office & recorded — Samuel A Besson
Sept 11th 1884 at 2.50 Oe P M — Master in Chancery

- -MCD- - - - - - - - - - - - - - - - - - - -

BOOK 2810 PAGE 35

ALL those certain tracts or parcels of land and premises, situate, lying, and being in the City of Hoboken, County of Hudson, and State of New Jersey, - - -

TRACT 1. BEGINNING at a point in the southeasterly line of Marshall Street where the same is intersected by the dividing line between lots numbered one (1) and two (2), in Block ten (10), as shown on the hereinafter recited map, said beginning point also being distant northeasterly twenty-five (25) feet measured along said southeasterly line of Marshall Street from its intersection with the northeasterly line of Observer Highway, formerly Ferry Street; thence (1) North thirty-two (32) degrees East, along said southeasterly line of Marshall Street, one hundred fifty (150) feet to a point in the dividing line between lots numbered seven (7) and eight (8) as shown on said map; thence (2) South fifty-eight (58) degrees four (04) minutes East, along last mentioned dividing line between lots numbered seven (7) and eight (8), and the dividing line between lots numbered twenty-nine (29) and thirty (30) as shown on said map, two hundred (200) feet to a point in the northwesterly line of Harrison Street; thence (3) South thirty-two (32) degrees West, along said northwesterly line of Harrison Street, one hundred fifty (150) feet to a point in the dividing line between lots numbered thirty-five (35) and thirty-six (36) as shown on said map; thence (4) North fifty-eight (58) degrees four (04) minutes West, along said dividing line between lots numbered thirty-five (35) and thirty-six (36), and along the dividing line between lots numbered one (1) and two (2), two hundred (200) feet to the point and place of BEGINNING.

Being known and designated as lots numbered two (2), three (3), four (4), five (5), six (6), seven (7), thirty (30), thirty-one (31), thirty-two (32), thirty-three

six (6) and seven (7), as shown on said map; thence (2) South fifty-eight (58) degrees four (04) minutes East, along last mentioned dividing line between lots numbered six (6) and seven (7), one hundred (100) feet to a point in the dividing line between lots numbered six (6) and thirteen (13), as shown on said map; thence (3) South thirty-two (32) degrees West, along last mentioned dividing line between lots numbered six (6) and thirteen (13), and along the dividing line between lots numbered five (5) and fourteen (14), as shown on said map, fifty (50) feet to a point in the aforesaid dividing line between lots numbered four (4) and five (5) as shown on said map; thence (4) North fifty-eight (58) degrees four (04) minutes West, along last mentioned dividing line between lots numbered four (4) and five (5), one hundred (100) feet to the point and place of BEGINNING.

Being known and designated as lots numbered five (5) and six (6), in block twelve (12), as shown on a map entitled, "Map of Property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots November, 1860, by Daniel Ewen, Austin D. Ewen, City Surveyors, New York"; and filed in the Office of the Clerk, now Register, of the County of Hudson.

Being part of the premises described in a deed from William McCune, et ux., to the North Hudson County Railway Company, predecessor of Public Service Coordinated Transport, dated September 11, 1884, and recorded September 11, 1884 in the Clerk's, now Register's Office of Hudson County, in Book 395 of Deeds for said County, on pages 80 etc.

The above descriptions being drawn in accordance with a survey numbered 22480 made by Clarke & Hartman,

and its successors, covenants, promises, and agrees to and with the said party of the second part, its successors and assigns, that it has not made, done, permitted, executed, or suffered any act or acts, thing or things whatsoever, whereby or by means whereof the above-mentioned and described premises, or any part or parcel thereof, now are, or at any time hereafter shall or may be, impeached, charged, or encumbered in any manner or way whatsoever, except as aforesaid.

And the said party of the first part, for itself and its successors, covenants and agrees that it will protect, indemnify, and save harmless the party of the second part, its successors and assigns, from paying any sum or sums of money in satisfaction or on account of any judgments or any part thereof which may be of record against the party of the first part on the date hereof.

IN WITNESS WHEREOF, the party of the first part has hereunto affixed its corporate seal and caused these presents to be signed and attested by its proper officers thereunto duly authorized, all as of the day and year first above written.

PUBLIC SERVICE COORDINATED TRANSPORT,
By

Thomas W. McCarter Jr.
Vice-President.

PUBLIC SERVICE COORDINATED TRANSPORT

Attest:

W. T. Cridge
Asst Secretary.

This Indenture, made this 21st day of July in the year of our Lord nineteen hundred and Sixty-four between PUBLIC SERVICE ELECTRIC AND GAS COMPANY, a corporation of the State of New Jersey, party of the first part, and JOCARLIN, INC., also a corporation of the State of New Jersey, having its principal office at 77 River Street, in the City of Hoboken, County of Hudson, and State of New Jersey, party of the second part, WITNESSETH:

That the party of the first part, for and in consideration of the sum of Three Thousand Dollars ($3,000.00)

1743

lawful money of the United States of America, to it in hand paid by the party of the second part, at or before the sealing and delivery of these presents, receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, remised, released, conveyed, and confirmed, and by these presents does, subject as hereinafter set forth, grant, bargain, sell, alien, remise, release, convey, and confirm unto the party of the second part and to its successors and assigns, forever.

ALL those certain lots, tract, or parcel of land and premises situate, lying, and being in the City of Hoboken, County of Hudson, and State of New Jersey: - - - -

BEGINNING at a point in the southeasterly line of Harrison Street where the same is intersected by the southwesterly line of Lot Number Five (5) in Block Twelve (12) as shown on the hereinafter recited map, distant northeasterly 100 feet measured along said southeasterly line of Harrison Street from its intersection with the northeasterly line of Observer Highway, formerly Ferry Street; thence

(1) North 32° East, along said southeasterly line of Harrison Street, 50 feet to a point in the northeasterly line of Lot Number Six (6) in Block Twelve (12) as shown on said map; thence

(2) South 58° 04' East, along said northeasterly line of Lot Number Six (6) in Block Twelve (12) as shown on said map, 100 feet to a point in the rear line of Lot Number Six (6) in Block Twelve (12) as shown on said map; thence

(3) South 32° West, along the rear line of Lots Numbered Six (6) and Five (5) in Block Twelve (12) as shown on said map, 50 feet to a point in the aforesaid southwesterly line of Lot Number Five (5) in Block Twelve (12) as shown on said map; thence

(4) North 58° 04' West, along said southwesterly line of Lot Number Five (5) in Block Twelve (12) as shown on said map, 100 feet to the point and place of Beginning.

Being known and designated as Lots Numbered Five (5) and Six (6) in Block Twelve (12) as shown on a map entitled, "Map of Property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots November 1860 by Daniel Ewen, Austin D. Ewen, City Surveyors, New York," and filed in the office of the Clerk, now Register, of the County of Hudson.

Being the same premises described as Tract 2 in a deed from Public Service Coordinated Transport to Public Service Electric and Gas Company, dated August 5, 1954, and recorded August 11, 1954 in the Register's Office of Hudson County in Book 2600 of Deeds for said County on pages 34, etc.

TOGETHER with all and singular the tenements, hereditaments, and appurtenances thereunto belonging or in anywise appertaining, and the reversion and reversions, remainder and remainders, rents, issues, and profits thereof, except as aforesaid. AND ALSO, all of the estate, right, title, interest, property, possession, claim, and demand whatsoever, as well in law as in equity, of the said party of the first part of, in, or to the hereinbefore-described premises and every part and parcel thereof, with the appurtenances, except as aforesaid.

TO HAVE AND TO HOLD the said premises, together with all and singular the appurtenances, unto the party of the second part, its successors and assigns, to the only proper use, benefit, and behoof of the said party of the second part, its successors and assigns, forever, subject as aforesaid.

And the said party of the first part, for itself and its successors, covenants, promises, and agrees to and with the said party of the second part, its successors and assigns, that it has not made, done, permitted, executed, or suffered any act or acts, thing or things whatsoever, whereby or by means whereof the above-mentioned and described premises, or any part or parcel thereof, now are, or at any time hereafter shall or may be, impeached, charged, or encumbered in any manner or way whatsoever, except as aforesaid.

And the said party of the first part, for itself and its successors, covenants and agrees that it will protect, indemnify, and save harmless the party of the second part, its successors and assigns, from paying any sum or sums of money in satisfaction or on account of any judgments or any part thereof which may be of record against the party of the first part on the date hereof.

In Witness Whereof, the party of the first part has hereunto affixed its corporate seal and caused these presents to be signed and attested by its proper officers thereunto duly authorized, all as of the day and year first above written.

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

E. H. Snyder

E. H. SNYDER Vice-President

Attest:

M. Carrington, Jr.

M. CARRINGTON, Jr. Secretary

RECEIVED
Aug 19 9 30 AM '61
HUDSON COUNTY REGISTER

LIBER 2955 PAGE 672

1 7 Mg 19 505 $0.00015018

Mg 19 505 $0.00015018

4739

D E E D ENTERED

PUBLIC SERVICE ELECTRIC AND GAS CO.

To

JOCARLIN, INC. 1743

Dated: July 21, 1964

RECORD & RETURN TO:

RUDOLPH R. NADDEO, ESQ.
77 River Street
Hoboken, N. J.

GRANTOR	✓
GRANTEE	✓

(2)

BK2955 PGE 674

Office of Hudson County in Book 2600 of Deeds for said County on pages 34, etc.

Subject to convenants, restrictions and reservations of record and encroachments, if any.

Reserving to Public Service Electric and Gas Company, its successors and assigns, the full right, privilege and authority to construct, reconstruct, inspect, operate, maintain and replace the existing guy pole, overhead guys and anchor guys and strands on the premises hereinabove described, the right to relocate the guy anchors from the adjoining Lot Number Four (4) to Lot Number Five (5) of the premises hereinafter described, when in the judgment of Public Service Electric and Gas Company, its successors and assigns, such relocation becomes necessary, and the right of construction or maintenance, or both, of poles, wires, underground conduits, gas mains, and appurtenances on or in the street abutting the premises hereinabove described, together with the right to trim, cut, and remove any and all trees now located and which may hereafter be located either in the street or on the aforesaid premises which in the judgment of the duly authorized representatives of said Public Service Electric and Gas Company, its successors and assigns, endanger said poles, wires, underground conduits, gas mains, guy pole, overhead guys, anchor guys, and appurtenances.

The party of the second part, its successors and assigns, convenants and agrees that no buildings or structures whatsoever shall be erected or placed on the premises hereinabove described that will interfere with the continued use and operation of the said existing guy pole, overhead guys, and anchor guys and strands, together with the right of free access at all times on foot and by vehicles for any of the purposes aforesaid.

STATE OF NEW JERSEY,
COUNTY OF } ss.:

BE IT REMEMBERED, that on this day of
before me, the subscriber, a
personally appeared

who, I am satisfied, the grantor mentioned in the within Deed, and thereupon
acknowledged that signed, sealed and delivered the same as act and deed,
for the uses and purposes therein expressed.

The full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1(c), is $

STATE OF NEW JERSEY,
COUNTY OF Hudson } ss.:

BE IT REMEMBERED, that on this 24th day of January 19 73
before me, the subscriber, an Attorney at Law of the State of New Jersey
personally appeared Frieda Schneider
who, being by me duly sworn on h oath, doth depose and make proof to my satisfaction, that she is the
Secretary of Jocarlin Realty Co.
the grantor named in the within Deed,
that Henry Schneider is the President
of said corporation; that the execution as well as the making of this Deed, has been duly authorized by a
proper resolution of the Board of Directors of the said corporation; that deponent
well knows the corporate seal of said corporation; and the seal affixed to said Deed is such corporate seal
and was thereto affixed, and said Deed signed and delivered by said Henry Schneider President,
as and for the voluntary act and deed of said corporation, in presence of deponent, who thereupon sub-
scribed h is name thereto as witness.

The full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1(c), is $ 3,000.00

Sworn to and subscribed before me,
at Hoboken, NJ.
the date aforesaid.

Rudolph R. Naddeo, an Attorney at
Law of the State of New Jersey

Frieda Schneider
Frieda Schneider, Secretary

457 Deed

Rec 773 $0.012.25

JOCARLIN REALTY CO.

TO

Henry Schneider and
Frieda Schneider, his
wife

K 1743

Dated, January 24, 19 73

Received in the Office of
the County of , N. J.,
on the day of , 19
at o'clock, in the noon and
Recorded in Book of DEEDS for
said County, on page

Record and Return to:
Henry Schneider
1034 Garden Street
Hoboken, New Jersey

3

RECEIVED
JAN 25 9 33 AM '73
HUDSON COUNTY
REGISTER OF DEEDS

DEED 3135 PG 51

ASSESSOR

1743

TRACT 2

BEGINNING at a point in the southeasterly line of Harrision Street where the same is intersected by the southwesterly line of Lot Number Five (5) in Block Twelve (12) as shown on the hereinafter recited map, distant northeasterly 100 feet measured along said southeasterly line of Harrison Street from its intersection with the northeasterly line of Observer Highway, formerly Ferry Street, thence,

(1) North 32°East, along southeasterly line of Harrison Street 50 feet to a point in the northeasterly line of Lot Number Six (6) in Block Twelve (12) as shown on said map; thence,

(2) South 58° 04' East, along said northeasterly line of Lot Number Six (6) in Block Twelve (12) as shown on said map, 100 feet to a point in the rear line of Lot Number Six (6) in Block Twelve (12) as shown on said map; thence,

(3) South 32° West, along the rear line of Lots Numbered Six (6) and five (5) in Block Twelve (12) as shown on said map, 50 feet to a point in the aforesaid southwesterly line of Lot Number Five (5) in Block Twelve (12) as shown on said map: thence,

(4) North 58° 04' West, along said southwesterly line of Lot Number Five (5) in Block Twelve (12) as shown on said map, 100 feet to the point and place of Beginning.

Being known and designated as Lots Numbered Five (5) and Six (6) in Block Twelve (12) as shown on a map entitled, "Map of Property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots November 1860 by Daniel Ewen, Austin D. Ewen, City Surveyors, New York," and filed in the office of the Clerk, now Register, of the County of Hudson.

Being the same premises described as Tract 2 in a deed from Public Service Coordinated Transport to Public Service Electric and Gas Company dated August 5, 1954, and recorded August 11, 1954, in the Register's Office of Hudson County in Book 2600 of Deeds for said County on Pages 34, etc.

Subject to convenants, restrictions and reservations of record and encroachments, if any.

Reserving to Public Service Electric and Gas Company, its successors and assigns, the full right, privilege and authority to construct, reconstruct, inspect, operate, maintain and replace the existing guy pole, overhead guys and anchor guys and strands on the premises hereinabove, described, the right to relocate the guy anchors from the adjoining Lot Number Four (4) to Lot Number Five (5) of the premises hereinafter described, when in the judgment of Public Service Electric and Gas Company, its successors and assigns, such relocation becomes necessary, and the right of construction or maintenance, or both, of poles, wires, underground conduits, gas mains, and appurtenances on or in the street abutting the premises hereinabove described, together with the right to trim, cut, and remove any and all trees now located and which may hereafter be located either in the street or on the aforesaid premises which in the judgment of the duly authorized representatives of said Public Service Electric and Gas Company, its successors and assigns, endanger said poles, wires, underground conduits, gas mains, guy pole, overhead guys, anchor guys, and appurtenances.

The Party of the second pary, its successors and assigns, convenants and agrees that no buildings or structures whatsoever shall be erected or placed on the premises hereinabove described that will interfere with the continued use and operation of the said existing guy pole, overhead guys, and anchor guys and strands, together with the right of free access at all times on foot and by vehicles for any of the purposes aforesaid.

SUBJECT OF A PURCHASE MONEY MORT G AG E IN T HE SUM OF $ 55,000.00 held by the grantors and recorded together with this deed.

STATE OF NEW JERSEY,
COUNTY OF Hudson } ss.:

BE IT REMEMBERED, that on this 15th day of January 1974 before me, the subscriber, a attorney at law of New Jersey personally appeared Henry Schneider & Frieda Schneider his wife who, I am satisfied, are the grantor mentioned in the within Deed, and thereupon they acknowledged that they signed, sealed and delivered the same as their act and deed, for the uses and purposes therein expressed.

The full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1(c), is $ 65,000.00

Rudolph R. Maddeo
An attorney at law of N.J.

STATE OF NEW JERSEY,
COUNTY OF } ss.:

BE IT REMEMBERED, that on this day of 19 before me, the subscriber, a personally appeared who, being by me duly sworn on h oath, doth depose and make proof to my satisfaction, that he is the of the grantor named in the within Deed, that, is the of said corporation; that the execution as well as the making of this Deed, has been duly authorized by a proper resolution of the Board of of the said corporation; that deponent well knows the corporate seal of said corporation; and the seal affixed to said Deed is such corporate seal and was thereto affixed, and said Deed signed and delivered by said President, as and for the voluntary act and deed of said corporation, in presence of deponent, who thereupon subscribed h name thereto as witness.

The full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1(c), is $

Sworn to and subscribed before me,
at
the date aforesaid.

251

DEED

HENRY SCHNEIDER AND FRIEDA SCHNEIDER HIS WIFE

TO

DESBROSSES GARAGE CORP. A CORPORATION OF THE STATE OF NEW YORK

Dated, JANUARY 15, 1974, 19

Recorded in the Office of the County of , N. J. on the day of , 19 at o'clock, in the noon and Recorded in Book of DEEDS for said County, on page

Prepared by: Rudolph R. Maddeo

Record and Return to:
Pioneer National Title Ins. Co.
744 Broad Street
Newark, N. J.

RECEIVED
JAN 16 11 22 AM '74
HUDSON COUNTY
REGISTER OF DEEDS

LIBER 3156 PG 276

103—DEED - BARGAIN AND SALE (Covenant as to Grantor's Acts)
IND. TO IND. OR CORP. — Plain Language D RVST—1

Copyright © 1982 By ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N.J. 07016

000272

DEED

Prepared by: (Print signer's name below signature)
JOSEPH A. FOGLIA, ESQ.

This Deed is made on December 3, 1990,

BETWEEN

DESBROSSES GARAGE CORP.

A COPY OF THIS DEED HAS BEEN SENT TO [illegible]

whose address is 511 Canal Street, New York, New York referred to as the Grantor,

AND

PONTE EQUITIES, INC.,

whose post office address is 2 Hope Street, Jersey City, New Jersey referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of

The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of Hoboken
Block No. 12 Lot No. 16 Account No.
☐ No property tax identification number is available on the date of this deed. (Check box if applicable.)

Property. The property consists of the land and all the buildings and structures on the land in the City of Hoboken
County of Hudson and State of New Jersey. The legal description is:

TRACT 1

ALL those certain lots, tract or parcel of land and premises, hereinafter particularly described, situate lying and being in the City of Hoboken County of Hudson and State of New Jersey, and which are known and distinguished upon a certain map entitled "Map of Property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots, November 1860, by Daniel Ewen, Austin D. Ewen, City Surveyors, New York," filed in the office of the Clerk of said County of Hudson as lots one (1), two (2), three (3), four (4), sixteen (16), seventeen (17), and eighteen (18), in Block number twelve (12).

Being part of the premises described in a deed from William McCune, et ux., to the North Hudson County Railway Company, predecessor of Public Service Coordinated Transport, dated September 11, 1884 and recorded September 11, 1884, in the Clerk's (now Register's) Office of Hudson County, in Book 395 of Deeds for said County, on pages 80, etc.

Subject to the erection or maintenance, or both, by Public Service Electric and Gas Company, its successors and assigns, of poles, wires, and appurtenances on or near the curb lines of streets or avenues abutting the hereinabove - described premises.

Also, subject to encroachments, restrictions and reservations of record, if any.

This sale and conveyance was approved by the Board of Public Utility Commissioners of the State of New Jersey, by certificate dated May 8, 1958, Docket No. 10638.

TRACT 2

BEGINNING at a point in the southeasterly line of Harrison Street where the same is intersected by the southwesterly line of Lot Number Five (5) in Block Twelve (12) as shown on the hereinafter recited map, distant northeasterly 100 feet measured along said southeasterly line of Harrison Street from its intersection with the northeasterly line of Observer Highway, formerly Ferry Street, thence,

(1) North 32° East, along southeasterly line of Harrison Street 50 feet to a point in the northeasterly line of Lot Number Six (6) in Block Twelve (12) as shown on said map; thence

(2) South 58° 04' East, along said northeasterly line of Lot Number Six (6) in Block Twelve (12) as shown on said map, 100 feet to a point in the rear line of Lot Number Six (6) in Block Twelve (12) as shown on said map; thence

Consideration $
Realty Transfer Fee
Addl. Fee
Addl. Rec.
By:
N.F. Rec.
Ant. Rec.

NC 1645—AFFIDAVIT OF CONSIDERATION
RTF-1 (Rev. 1/1/88)

STATE OF NEW JERSEY
AFFIDAVIT OF CONSIDERATION OR EXEMPTION
(c. 49, P.L. 1968)
or
PARTIAL EXEMPTION
(c. 176, P. L. 1975)

ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N. J. 07016
RV T-1

To Be Recorded With Deed Pursuant to c. 49, P.L. 1968, as amended by c. 225, P.L. 1985 (N.J.S.A. 46:15-5,et seq.)

STATE OF NEW JERSEY
COUNTY OF BERGEN } ss.

FOR RECORDER'S USE ONLY
Consideration $
Realty Transfer Fee $ *
Date 1-15-91 By

*Use symbol "C" to indicate that fee is exclusively for county use.

(1) PARTY OR LEGAL REPRESENTATIVE (See Instructions #3, 4 and 5 on reverse side)

Deponent, ANGELO J. PONTE (Name), being duly sworn according to law upon his/her oath deposes and says that he/she is the Secretary of DESBROSSES GARAGE CORP. (State whether Grantor, Grantee, Legal Representative, Corporate Officer, Officer of Title Co. Lending Institution, etc.)

in a deed dated December 3, 1990, transferring real property identified as Block No. 12

Lot No. 16 located at 58-62 Jackson Street, Hoboken, New Jersey (Street Address, Municipality, County)

and annexed hereto.

(2) CONSIDERATION (See Instruction #6)

Deponent states that, with respect to deed hereto annexed, the actual amount of money and the monetary value of any other thing of value constituting the entire compensation paid or to be paid for the transfer of title to the lands, tenements or other realty, including the remaining amount of any prior mortgage to which the transfer is subject or which is to be assumed and agreed to be paid by the grantee and any other lien or encumbrance thereon not paid, satisfied or removed in connection with the transfer of title is $

(3) FULL EXEMPTION FROM FEE Deponent claims that this deed transaction is fully exempt from the Realty Transfer Fee imposed by c.49, P.L. 1968, for the following reason(s): Explain in detail. (See Instruction #7.) Mere reference to exemption symbol is not sufficient.

The amount of consideration is less than one hundred dollars.

(4) PARTIAL EXEMPTION FROM FEE *NOTE: All boxes below apply to grantor(s) only. ALL BOXES IN APPROPRIATE CATEGORY MUST BE CHECKED. Failure to do so will void claim for partial exemption. (See Instructions #8 and #9)*

Deponent claims that this deed transaction is exempt from the increased portion of the Realty Transfer Fee imposed by c.176, P.L. 1975 for the following reason(s):

a) SENIOR CITIZEN (See Instruction #8)
- ☐ Grantor(s) 62 yrs. of age or over.*
- ☐ One or two-family residential premises
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

b) BLIND (See Instruction #8)
- ☐ Grantor(s) legally blind.*
- ☐ One or two-family residential premises.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

DISABLED (See Instruction #8)
- ☐ Grantor(s) permanently and totally disabled.*
- ☐ One or two-family residential premises.
- ☐ Receiving disability payments.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ Not gainfully employed.
- ☐ No joint owners other than spouse or other qualified exempt owners.

*IN THE CASE OF HUSBAND AND WIFE, ONLY ONE GRANTOR NEED QUALIFY.

c) LOW AND MODERATE INCOME HOUSING (See Instruction #8)
- ☐ Affordable According to H.U.D. Standards.
- ☐ Meets Income Requirements of Region.
- ☐ Reserved for Occupancy.
- ☐ Subject to Resale Controls.

d) NEW CONSTRUCTION (See Instruction #9)
- ☐ Entirely new improvement.
- ☐ Not previously used for any purpose.
- ☐ Not previously occupied.

Deponent makes this Affidavit to induce the County Clerk or Register of Deeds to record the deed and accept the fee submitted herewith in accordance with the provisions of c. 49, P.L. 1968.

Subscribed and Sworn to before me this 3 day of December, 19 90

Joseph A. Foglia
Attorney at Law
State of New Jersey

Name of Grantee (See above line)

DESBROSSES GARAGE CORP.
Name of Grantor (See above line)

511 Canal St., New York, NY
Address of Deponent

511 Canal St., New York, NY
Address of Grantee at Time of Sale

FOR OFFICIAL USE ONLY This space for use of County Clerk or Register of Deeds.
Instrument Number 002 County
Deed Number Book Page
Deed Dated 12-3-90 Date Recorded 1-15-91

IMPORTANT - BEFORE COMPLETING THIS AFFIDAVIT, PLEASE READ THE INSTRUCTIONS ON THE REVERSE SIDE HEREOF.
This form is prescribed by the Director, Division of Taxation in the Department of the Treasury, as required by law, and may not be altered or amended without the approval of the Director.
ORIGINAL — White copy to be retained by County.
DUPLICATE — Yellow copy to be forwarded by County to Division of Taxation on partial exemption from fee (N.J.A.C. 18:18—8.12).
TRIPLICATE — Pink copy is your file copy.

BK 4365 PG 263

RECORDED
1991 JAN 15 PM 2:59

26

DEED

Dated: December 3, 1990

DESBROSSES GARAGE CORP.

Grantor.

TO

PONTE EQUITIES, INC.

Grantee.

Record and return to:

LAW OFFICE OF JOSEPH A. FOGLIA
171 E. Ridgewood Ave.
Ridgewood, New Jersey 07450

BK4365PG265

day of June
scriber, a
, his wife,
mentioned,
reupon they
and deed,

JERSEY

and twenty-
band, of

son and
th; That in
grantors

lying and
ticularly

Avenue, and
Avenue ninety
fifty-six and
l with Jerse
ly side of
t, fifty-seven

thereinb
Register's

heirs and
further agree
e feet of
owned by
rty of the

The said Julia Mainieri and John Mainieri, her husband covenant:
1. That they are lawfully seized of the said land.
2. That they have the right to convey the said land to the grantee.
3. That the grantee shall have quiet possession of the said land free from all incumbrances,
4. That the grantors will execute such further assurances of the said land as may be requisite,
5. That they will warrant generally the property hereby conveyed,

In Witness Whereof, the said grantors have hereunto set their hands and seals the day and year fire above written,

Signed, sealed and delivered
in the presence of

JOS. H. PARRY

JULIA MAINIERI L.S.
JOHN MAINIERI L.S.
REV STAMPS $ 11.00

STATE OF NEW JERSEY
HUDSON COUNTY SS: BE IT REMEMBERED, THAT on this twenty-second day of June in the year one thousand nine hundred and twenty-three, before me, a Master In Chancery of New Jersey, personally appeared JULIA MAINIERI AND JOHN MAINIERI her husband, who, I am satisfied are the grantors in the within Indenture named, and I having first made known to them the contents thereof, they did acknowledge that they signed, sealed and delivered the same as their voluntary act and deed for the uses and purposes therein expressed;

JOS. H. PARRY
MASTER IN CHANCERY OF NEW JERSEY.

REC'D IN THE OFFICE & REC'D JUNE 26, 1923. 12.20 PM. # 8765
HPG
####

JOHN J. RYAN ET UX
TO
MARY ELLEN KRENCK

DEED
DATED
JUNE 22, 1923.

THIS INDENTURE Made the 22nd day of June in the year of our Lord one thousand nine hundred and twenty-three, Between JOHN J. RYAN AND THERESA RYAN, his wife, of the Township of North Bergen, in the County of Hudson and State of New Jersey party of the first part: And MARY ELLEN KRENCK, (Formerly Mary Ellen Ryan) of the City of Hoboken, in the County of Hudson and State of New Jersey party of the second part.

WITNESSETH: THAT the said party of the first part, for and in consideration of one dollar ($1) and other good and valuable consideration, lawful money of the United States of America, to them in hand well and truly paid by the said party of the second part, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the said party of the first part therewith fully satisfied, contented and paid, have given, granted, bargained, sold, aliened, released, enfeoffed, conveyed and confirmed, and by these presents do give, grant, bargain, sell, alien, release, enfeoff, convey and confirm unto the said party of the second part, and to her heirs and assigns forever.

cause or procure to be made, done or executed, all and every such further and other lawful and reasonable acts, conveyances and assurances in the law for the better and more effectually vesting and confirming the premises hereby intended to be granted in and to the said party of the second part, her heirs and assigns forever, as by the said party of the second part her heirs or assigns or her counsel learned in the law shall be reasonably advised or required.

AND the said parties of the first part, their heirs, the above described and hereby granted and released premises, and every part and parcel thereof, with the appurtenances, unto the said party of the second part, her heirs and assigns, against the said party of the first part and their heirs, and against all and every person or persons whomsoever, lawfully claiming or to claim the same shall and will Warrant and by these presents Forever Defend.

IN WITNESS WHEREOF, THE said party of the first part have hereunto set their hands and seals the day and year first above written,

Signed, sealed and delivered

in the presence of

DAVID FRIEDENBERG — JOHN J. RYAN L.S.

THERESA RYAN L.S.

REV STAMPS $3.00

STATE OF NEW JERSEY

COUNTY OF HUDSON SS: BE IT REMEMBERED, THAT on this 22nd day of June in the year of our Lord one thousand nine hundred and twenty-three, before me, the subscriber, an Attorney at Law of New Jersey, personally appeared JOHN J. RYAN AND THERESA RYAN, his wife, who, I am satisfied, are the grantors mentioned in the within Instrument, to whom I first made known the contents thereof, and thereupon they acknowledged that they signed, sealed and delivered the same as their voluntary act and deed for the uses and purposes therein expressed;

DAVID FRIEDENBERG

ATTORNEY AT LAW OF NEW JERSEY

REC'D IN THE OFFICE & REC'D JUNE 25, 1923. 12.25 PM # 8766

HPO

######

MARY SCALA ET VIR — DEED

TO — DATED

WILLIAM KNOWITZ — JUNE 26, 1923.

THIS INDENTURE Made the twenty-sixth day of June in the year of our Lord one thousand nine hundred and twenty-three. Between MARY SCALA AND THEODORE SCALA, her husband of the Town of West New York, in the County of Hudson and State of New Jersey party of the first part; And William Knowitz of the Town of West New York, in the County of Hudson and State of New Jersey, party of the second part;

WITNESSETH THAT the said party of the first part, for and in consideration of one dollar and other valuable consideration s, lawful money of the United States of America, to them in hand well and truly paid by the said party of the second part, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the said party of the

Being the same premises conveyed to Mary Ellen Erbeck by John J. Ryan and Theresa Ryan, his wife, by deed bearing date June 22, 1923, which deed was recorded in the Office of the Register of said County of Hudson on June 25, 1923, in Book 1482 of Deeds, on page 559. The said Mary Ellen Erbeck departed this life at Hoboken, New Jersey, on January 24, 1944, and left her surviving a son, John F. Erbeck, and a daughter, Sara E. Book, her sole heirs and next of kin, who are two of the Grantors mentioned herein.

Book 2220 page 415

State of New Jersey, }
County of }

Be it Remembered, that on this day of in the year of Our Lord One Thousand Nine Hundred and before me, the subscriber, personally appeared

who, being by me duly sworn on his oath, doth depose and make proof to my satisfaction, that he is the of the

the named in the within instrument;

that

President of said corporation; that the seal affixed to said instrument, has been duly authorized by a proper resolution of the board of directors of the said Corporation; that deponent well knows the corporate seal of said corporation; and the seal affixed to said instrument is such corporate seal; and was thereto affixed, and said instrument signed and delivered by said President, as said corporation's voluntary act and deed, and for the voluntary act and deed of said corporation, in presence of deponent, who thereupon subscribed his name thereto as witness.

Sworn and subscribed before me,

at

Eb - Boo.

ASSESSOR

13413

Deed

JOHN F. ERRICK, et ux, et als.,

TO

FRANK O. BOGERT

Dated this County, in

1743

DATED December 20, 1926.

Received in the Office of the County of on the day of A. D. 19 , at o'clock, in the noon and Recorded in Book of DEEDS for said County, on page

Chris G. Pappas, Esq.,
53 Newark Street,
Hoboken, N.J.

ENTERED

INDEXED

REGISTER'S OFFICE

RECORDED 21 AM 11:22

HUDSON COUNTY, N.J.

Being the same premises conveyed to Frank C. Bogert, one of the parties of the first part, by John F. Erbeck, et als, by Deed dated December 20th, 1946, which deed is recorded in the Register's Office of the County of Hudson in Liber 2220 at page 403.

Subject to existing mortgage, and restrictions and covenants contained in deeds of record.

REGISTER'S OFFICE
1947 SEP 23 AM 10:36
HUDSON COUNTY, N.J.

Register of Hudson County

INDEXED DATE

ENTERED

ASSESSOR

Deed

FRANK O. BOGERT and MARIANNE BOGERT, his wife,

TO

FREDERICK P. KIESCHE

Dated: July 23rd, 19 47.

Received in the Office of the County of on the day of A.D. 19 , at o'clock in the noon and Recorded in Book of DEEDS for said County, on page

R/R

J. HARRY O'BRIEN
COUNSELLOR AT LAW
66 HUDSON STREET
HOBOKEN, N.J.

BOOK 2266 PAGE 401

State of New Jersey, } ss.:
County of

Be it remembered, That on this day of one hundred and before me the subscriber, a personally appeared who being by me duly sworn on his oath deposes and says that he is the of the Grantor named in the foregoing instrument; that he well knows the corporate seal of said corporation; that the seal affixed to said instrument is the corporate seal of said corporation; that the said seal was so affixed and the said instrument signed and delivered by who was at the date thereof the President of said corporation, in the presence of this deponent, and said President, at the same time acknowledged that he signed, sealed and delivered the same as his voluntary act and deed, for the voluntary act and deed of said corporation, by virtue of authority from its Board of Directors; that deponent, at the same time, subscribed his name to said Instrument as an attesting witness to the execution thereof.

Sworn and Subscribed before me at the date aforesaid

Together with all and singular the buildings, improvements, ways, woods, waters, watercourses, rights, liberties, privileges, hereditaments and appurtenances to the same belonging or in anywise appertaining; and the reversion and reversions, remainder and remainders, rents, issues and profits thereof, and of every part and parcel thereof; **And also** all the estate, right, title, interest, use, possession, property, claim and demand whatsoever, of the Grantors both in law and in equity, of, in and to the premises herein described, and every part and parcel thereof, with the appurtenances. **To Have and to Hold** all and singular, the premises herein described, together with the appurtenances, unto the Grantees and to Grantees' proper use and benefit forever.

And the Grantors covenant that they have not done or executed, or knowingly suffered to be done or executed, any act, deed or thing whatsoever whereby or by means whereof the premises conveyed herein, or any part thereof, now are or at any time hereafter, will or may be charged or encumbered in any manner or way whatsoever.

In all references herein to any parties, persons, entities or corporations, the use of any particular gender or the plural or singular number is intended to include the appropriate gender or number as the text of the within instrument may require.

Wherever in this instrument any party shall be designated or referred to by name or general reference, such designation is intended to and shall have the same effect as if the words "heirs, executors, administrators, personal or legal representatives, successors and assigns" had been inserted after each and every such designation.

In Witness Whereof, the Grantors have hereunto set their hands and seals the day and year first above written.

Signed, Sealed and Delivered in the presence of

ANGELICA KIESCHE (L.S.)

FREDERICK P. KIESCHE, JR. (L.S.)

JUNE M. KIESCHE (L.S.)

AUDREY M. FARRANCE (L.S.)

FREDERICK E. FARRANCE (L.S.)

JACQUELINE A. DISTASIO (L.S.)

EUGENE DISTASIO (L.S.)

CAROL A. BROWER (L.S.)

WILLIAM C. BROWER, SR. (L.S.)

GEORGE KIESCHE (L.S.)

RONALD J. KIESCHE (L.S.)

NETTIE KIESCHE (L.S.)

RUTH ANN KIESCHE (L.S.)

State of New Jersey, County of Middlesex } ss.: **Be it Remembered,** that on Jan. 20 19 73, before me, the subscriber, A Notary Public of New Jersey personally appeared Frederick P. Kiesche Jr., June M. Kiesche, Eugene DiStasio and Jacqueline A. DiStasio who, I am satisfied, are the person named in and who executed the within Instrument, and thereupon they acknowledged that they signed, sealed and delivered the same as their act and deed, for the uses and purposes therein expressed, and that the full and actual consideration paid or to be paid for the transfer of title to really evidenced by the within deed, as such consideration is defined in P.L. 1968, c.49, Sec.1 (c), is $ 12,500.00

Prepared by Leo P. Sullivan, Esq.

My Comm. expires 9-17-75

LIBER 3141 PG 338

Pg. 340

STATE OF NEW JERSEY,
COUNTY OF BERGEN } ss.:

BE IT REMEMBERED, that on this 21 day of January, 19 73 before me, the subscriber, a Notary Public of the State of New Jersey, personally appeared
George Kiesche, Ruth Ann Kiesche, Angelica Kiesche, Ronald J. Kiesche

who, I am satisfied, are the grantors mentioned in the within instrument, and they did acknowledge that they signed, sealed and delivered the same as their act and deed, for the uses and purposes therein expressed.

The full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968 c. 49 Sec. 1 (c), is $ 12,500.00

NOTARY PUBLIC NEW JERSEY

ANDREW ROSSI
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES SEPT. 9, 1976

RECORDED

STATE OF NEW JERSEY,
COUNTY OF BERGEN } ss.:

BE IT REMEMBERED, that on this 22 day of January, 19 73, before me, the subscriber, a Notary Public of the State of New Jersey, personally appeared
Carol A. Drower
William C. Drower, Sr.

who, I am satisfied, are the grantors mentioned in the within instrument, and they did acknowledge that they signed, sealed and delivered the same as their act and deed, for the uses and purposes therein expressed.

The full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968 c. 49 Sec. 1 (c), is $ 12,500.00

NOTARY PUBLIC NEW JERSEY

ANDREW ROSSI
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES SEPT. 9, 1976

LIBER 3141 PG 340

2563

Deed

Angelica Kiesche,
et al

TO

Lawrence J. Newman
and
Mary b. Newman, his wife

9 1743

Dated May 9th 19 73

Record and Return to
Jam s S. Brown, Esq.
77 River St.Hoboken, N.J.

RECEIVED
MAY 10 12 25 PM '73
HUDSON COUNTY
REGISTER OF DEEDS

LIBER 3141 PG 342

Together *with all and singular the tenements, hereditaments, and appurtenances thereunto belonging, or in anywise appertaining, and the reversion and reversions, remainder and remainders, rents, issues, and profits thereof.*

And also, *all the estate, right, title, interest, property, possession, claim and demand whatsoever, as well in law as in equity, of the said party of the first part, and of the said Testator, of, in, and to the above described premises, and every part and parcel thereof, with the appurtenances.* **To have and to hold,** *all and singular the above mentioned and described premises, together with the appurtenances, unto the said party of the second part,* his heirs, executors *and assigns forever.*

And *the said party of the first part does hereby covenant, promise and agree to and with the said party of the second part,* his heirs, executors *and assigns that* he *has not, as such executor as aforesaid, done or caused, suffered or procured to be done, any act, matter or thing, whereby the said premises or any part thereof, with the appurtenances, are or may be charged or encumbered in estate, title or otherwise.*

In Witness Whereof, *the said party of the first part, has hereunto set* his *hand and seal the day and year first above written.*

ESTATE OF LAWRENCE J. NEWMAN

By _____
(Eznick Bogosian)
Executor

Signed, Sealed and Delivered in presence of

_____
Samuel L. Marciano

State of New Jersey,
County of HUDSON } ss.:

Be it Remembered, *That on this* 28th *day of* July *before me in the year of our Lord One Thousand Nine Hundred and* Eighty, *the subscriber,* a Notary Public of New Jersey,

personally appeared EZNICK BOGOSIAN, Executor of the Estate of Lawrence J. Newman,

who, I am satisfied, is *the grantor mentioned in the within Instrument, to whom I first made known the contents thereof, and thereupon* he *acknowledged that,* he *signed, sealed and delivered the same as* his *voluntary act and deed, for the uses and purposes therein expressed,* & that the full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c.49, Sec. 1 (c), is $17,000.00.

Prepared by: Eznick Bogosian,
Attorney at Law of New Jersey

_____
Notary Public of New Jersey

A Notary Public of New Jersey
My Commission Expires Aug. 30, 1984

3304 1150

103—DEED - BARGAIN AND SALE (Covenant as to Grantor's Acts)
IND. TO IND OR CORP. — Plain Language ADGRVST—1

Copyright© 1982 By ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N.J. 07016

ASSESSOR'S

DEED

This Deed is made on August 13th, 19 82

BETWEEN JULIUS KROPF and KAY KROPF, his wife,

whose address is 2100 Linwood Avenue, Fort Lee, New Jersey,
referred to as the Grantor,

AND NICOLAS VALDES and BRUNILDA VALDES, his wife,

whose post office address is about to be 64 Jackson Street, Hoboken, New Jersey,
referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of THIRTY-ONE THOUSAND and xx/xxx----------($31,000.00)----------DOLLARS. The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of HOBOKEN
Block No. 12 Lot No. 15 Account No.

☐ No property tax identification number is available on the date of this deed. (Check box if applicable.)

Property. The property consists of the land and all the buildings and structures on the land in the City of Hoboken County of Hudson and State of New Jersey. The legal description is:

BEING on a map entitled, "Map of Property, situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots November 1860, by Daniel Ewen and Austin D. Ewen, City Surveyors, New York", and duly filed in the office of the clerk (now Register) of Hudson County is designated, distinguished and known as the most southerly twenty-five (25) feet, or twelve hundred and fifty square feet of lots number fourteen (14) and fifteen (15) in block numbered twelve (12). The premises hereby described being twenty-five (25) feet wide in front and rear, by fifty (50) feet deep throughout, and are fronting on the westerly side of Jackson Street, near the intersection with the northwesterly side of Paterson Plank Road, or Avenue; and being a part of said lots numbered fourteen (14) and fifteen (15); from the rear of which they were cut off; as they front on said Paterson Plank Road or Avenue.

BEING the same premises conveyed to Julius Kropf by deed of Eznick Bogosian, Executor, dated July 28, 1980, recorded July 30, 1980, in deed book 3304 page 1149 in the Hudson County Register's Office.

PREMISES are commonly known as 64 Jackson Street, Hoboken, New Jersey.

The said premises are more particularly described as follows:
BEGINNING at a point in the Northwesterly sideline of Jackson Street distant 32.0 feet Westerly from the intersection with the Southwesterly sideline of Paterson Avenue and proceeding thence; (1) South 33 degrees 00 minutes West along said Northwesterly sideline of Jackson Street, 25.00 feet to a point, thence (2) North 57 degrees 00 minutes West 50.00 feet to a point, thence (3) North 33 degrees 00 minutes East 25.00 feet to a point, thence (3) South 57 degrees 00 minutes East 50.00 feet to a point on the Northwesterly sideline of Jackson Street and the point or place of BEGINNING.
The above description being drawn in accordance with a survey made by G. Cassetta & Assoc., dated July 15, 1982.

3355 844

COUNTY OF HUDSON
CONSIDERATION: 31000.00
REALTY TRANSFER FEE 106.50
DATE 8-17-82 BY

DEED

JULIUS KROPF and KAY KROPF,
his wife,

Grantor,

TO

NICOLAS VALDES and BRUNILDA
VALDES, his wife

Grantee.

Record and return to:

ANDREW F. BATISTICH, ESQUIRE
95 River Street
Hoboken, New Jersey 07030

3355 S46

Promises by Grantor. The Grantor promises that the Grantor has done no act to encumber the property. This promise is called a "covenant as to grantor's acts" (N.J.S.A. 46:4-6). This promise means that the Grantor has not allowed anyone else to obtain any legal rights which affect the property (such as by making a mortgage or allowing a judgment to be entered against the Grantor).

Signatures. The Grantor signs this Deed as of the date at the top of the first page.

Witnessed by:

ARISTIDES F. HERNANDEZ, ESQ.

NICOLAS VALDEZ (Seal)

BRUNILDA VALDEZ (Seal)

STATE OF NEW JERSEY, COUNTY OF HUDSON SS.:

I CERTIFY that on December 5, 19 89,

NICOLAS & BRUNILDA VALDEZ personally came before me and acknowledged under oath, to my satisfaction, that this person (or if more than one, each person):

(a) is named in and personally signed this Deed; they
(b) signed, sealed and delivered this Deed as his or her act and deed; and
(c) made this Deed for $ 285,000.00 as the full and actual consideration paid or to be paid for the transfer of title. (Such consideration is defined in N.J.S.A. 46:15-5.)

(Print name and title below signature)
ARISTIDES F. HERNANDEZ, ESQ.
ATTORNEY AT LAW
STATE OF NEW JERSEY

BK4225PG272

103—DEED - BARGAIN AND SALE (Covenant as to Grantor's Acts)
IND. TO IND. OR CORP. — Plain Language G VS —1

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One Commerce Drive, Cranford, N.J. 07016

000642

DEED

Prepared by: (Print signer's name below signature)
Aristides F. Hernández
ARISTIDES F. HERNANDEZ, ESQ.

RE RECORD

This Deed is made on December 5, 19 89,

BETWEEN

NICOLAS & BRUNILDA VALDEZ

whose address is

referred to as the Grantor.

AND

UNITY ENVIRONMENTAL CORP., a New York corporation authorized to do business in the State of New Jersey, as UNITY EDUCATIONAL SYSTEMS, INC.

whose post office address is 511 Canal Street, New York, New York 10013

referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of

The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of Hoboken
Block No. 12 Lot No. 15 Account No.

☐ No property tax identification number is available on the date of this deed. (Check box if applicable.)

Property. The property consists of the land and all the buildings and structures on the land in the City of Hoboken County of Hudson and State of New Jersey. The legal description is:

This is a correcting Deed to correct Grantee's name by adding: UNITY EDUCATIONAL SYSTEMS, INC.

BEGINNING at a point in the Northwesterly sideline of Jackson Street distant 32.0 feet Westerly from the intersection with the Southwesterly sideline of Paterson Avenue and proceeding thence; (1) South 33 degrees 00 minutes West along said Northwesterly sideline of Jackson Street, 25.00 feet to a point, thence (2) North 57 degrees 00 minutes West 50.00 feet to a point, thence (3) North 33 degrees 00 minutes East 25.00 feet to a point, thence (3) South 57 degrees 00 minutes East 50.00 feet to a point, on the Northwesterly sideline of Jackson Street and the point or place of BEGINNING.

BEING more commonly known as 64 Jackson Street, Hoboken, New Jersey.

BEING known as Lot 15 in Block 12 on the Official Tax Map of the City of Hoboken, New Jersey.

Consideration $
Realty Transfer Fee Correcting
Add'l. Fee 1/27/90
Add'l. N.C.
By: JW Total $ 22.00

N.F.
Rec. Correcting
Ant. Rec. 22.00

RE-RECORD

1989 DEC -7 PM 12:20

DEED

	Dated: December 5 ,19 89
NICOLAS & BRUNILDA VALDEZ Grantor. TO UNITY ENVIRONMENTAL CORP. Grantee.	*Record and return to:* ARISTIDES F. HERNANDEZ, ESQ. 410 - 60th Street West New York, New Jersey 07093 EUGENE P. O'CONNELL ESQ. 544-546 SUMMIT AVENUE JERSEY CITY, NEW JERSEY 07306

RE-RECORD

RECEIVED
90 JAN 29 PM 1:53
HUDSON COUNTY
REGISTER OF DEEDS

RECEIVED
90 JAN 29 PM 1:53
HUDSON COUNTY
REGISTER OF DEEDS

BK4247PG167

~~BK4225BK273~~

APPENDIX M

Environmental Liens

FirstSearch Technology Corporation

Environmental Lien Report

TARGET PROPERTY:
Hoboken, NJ 07030
Job Number: 91911
FirstSearch #: 278939

PREPARED FOR:

Boswell Engineering

Date 9/28/11

Environmental FIRSTSEARCH

REGIONAL FOCUS NATIONAL SERVICE

Tel: (781) 551-0470

Fax: (781) 551-0471

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ENVIRONMENTAL LIEN RESEARCH NOTES:

ASTM Notes:

ASTM E 1527-05, Section 8.3 on Historical Use Information requires a review of *"Reasonably Ascertainable standard historical sources."*

"Reasonably Ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable."

This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful.

AAI Notes:

The Environmental Protection Agency published a final rule setting federal standards for the conduct of all appropriate inquiries (AAI). The final rule establishes specific regulatory requirements for conducting all appropriate inquiries into ***the previous ownership***, uses, and environmental conditions of a property for the purposes of qualifying for certain landowner liability protections under CERCLA.

After November 1, 2006, parties must comply with the requirements of All Appropriate Inquiries Final Rule, to satisfy the statutory requirements for conducting all appropriate inquiries. All appropriate inquiries must be conducted to obtain protection from potential liability under CERCLA as an innocent landowner, a contiguous property owner, or a bona fide prospective purchaser.

Inquiries conducted by or for the prospective landowner or grantee include:

- ***environmental liens***
- ***easements***
- ***restrictions***
- ***activity and use limitations***

Environmental FirstSearch is a registered trademark of FirstSearch Technology Corporation. All rights reserved

Order and Current Owner Information with Mortgages

Order Number: 276939 Order Type: Searched Thru: 8 /20/2011

Order Name: DESBROSSES GARAGE CORP

Order Name:

Address: 57-67 HARRISON STREET Town: HOBOKEN County HUDSON State: NJ

Grantor: HENRY SCHNEIDER

FRIEDA SCHNEIDER

Grantee: DESBRESSES GARAGE CORP

Date of Deed: 1 /15/1974 Recorded: 1 /16/1974 Considerations: $65,000

Book 3156 Page: 273

Grantor:

Grantee:

Date of Deed: Recorded: Considerations: $0

Book Page:

Comments: JUDGMENTS –

Property Description

Lot: 1-6 Block: 12

Additional Information

☐ Tax Info ☐ Mortgages ☐ Sat PMM ☐ Judge Liens ☐ Lis Pen

☐ Prev Deed ☐ Ease Rest ☐ Estate ☐ Foreclosure ☐ UCC Check

Tot Value: $0 Land Value: $0 Improvement: $0

Year: 0 Taxes $0 ☐ Current

Mortgage Information

Mortgage Date: Mtg Recorded: Mtg Amt $0

Mortgagee 1: NO OPEN MORTGAGES FOUND

☐ Open Ended

Mtg Book: Mtg Page:

☐ Assigned

Assignee:

☐ Agreement

Asn Book: Asn Page Asn Date Asn Recorded

Signed:

Mortgage Date: Mtg Recorded: Mtg Amt: $0

Mortgagee 2:

☐ Open Ended

Mtg Book: Mtg Page

☐ Assigned

Assignee:

☐ Agreement

Asn Book: Asn Page Asn Date Asn Recorded

Signed

Mortgage Date: Mtg Recorded: Mtg Amt: $0

Mortgagee 3:

☐ Open Ended

Mtg Book Mtg Page

☐ Assigned

Assignee

☐ Agreement

Asn Book: Asn Page Asn Date Asn Recorded

Signed

9 1 B—Deed—Bargain and Sale—(Cov. Against Grantor). Individual or Corporation.

JULIUS BLUMBERG, INC., LAW BLANK PUBLISHERS 80 EXCHANGE PLACE AT BROADWAY, NEW YORK

ASSESSOR ✓

This Indenture,

Made the 15th *day of* January *, in the year of our Lord*
One Thousand Nine Hundred and Seventy Four

Between Henry Schneider and Frieda Schneider, His Wife

1034 Garden Street

COUNTY OF HUDSON
CONSIDERATION 65,000.00
REALTY TRANSFER FEE 65.00
DATE 1/16/74 BY

in the City *of* Hoboken *County of* Hudson
and State of New Jersey *party of the first part;*

And

Desbrosses Garage Corp.
A New York ~~state~~ Corporation WITH OFFICES AT 74VARICK STREET NEW YORK CITY

in the ~~City~~ *of* ~~Hoboken~~ *County of* ~~Hudson~~
and State of ~~New Jersey~~ *party of the second part;*

Witnesseth, That the said party of the first part, for and in consideration of
SIXTY FIVE THOUSAND($65,000.00)

lawful money of the United States of America, to them *in hand well and truly paid by the said party of the second part, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the said party of the first part being therewith fully satisfied, contented and paid, has* ~~we~~ *given, granted, bargained, sold, aliened, released, enfeoffed, conveyed and confirmed and by these presents do give, grant, bargain, sell, alien, release, enfeoff, convey and confirm unto the said party of the second part, and to* Its SUCCESSORS *and assigns, forever,*

TRACT 1

All those certain lots,

tract or parcel of land and premises, hereinafter particularly described, situate, lying and being in the City *of* Hoboken *County of* Hudson *and State of* New Jersey, and which are known and distinguished upon a certain map entitled "Map of Property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots, November 1860, by Daniel Ewen, Austin D. Ewen, City Surveyors, New York," filed in the office of the Clerk of said County of Hudson as lots one (1), two (2), Three (3), four (4), sixteen (16), seventeen (17), and eighteen (18), in Block number twelve (12).

Being part of the premises described in a deed from William McCune, et ux., to the North Hudson County Railway Company, predecessor of Public Service Coordinated Transport, dated September 11, 1884 and recorded September 11, 1884, in the Clerk's (now Register's) Office of Hudson County, in Book 395 of Deeds for said County, on pages 80, etc.

Subject to the erection or maintenance, or both, by Public Service Electric and Gas Company, its successors and assigns, of poles, wires, and appurtenances on or near the curb lines of streets or avenues abutting the hereinabove - described premises.

Also, subject to encroachments, restrictions and reservations of record, if any.

This sale and conveyance was approved by the Board of Public Utility Commissioners of the State of New Jersey, by certificate dated May 8, 1958, Docket No. 10638.

1743

Together with all and singular the houses, buildings, trees, ways, waters, profits, privileges, and advantages, with the appurtenances to the same belonging or in anywise appertaining:

Also, all the estate, right, title, interest, property, claim and demand whatsoever, of the said party of the first part, of, in and to the same, and of, in and to every part and parcel thereof,

To have and to Hold all and singular the above described land and premises, with the appurtenances, unto the said party of the second part, ITS SUCCESSORS and assigns, to the only proper use, benefit and behoof of the said party of the second part, ITS SUCCESSORS, and assigns forever:

And the said HENRY SCHNEIDER AND FREIDA SCHNEIDER HIS WIFE

for THEMSELVES, THEIR heirs, executors and administrators, do covenant, promise and agree to and with the said party of the second part, ITS SUCCESSORS and assigns that THEY have not made, done, committed, executed or suffered any act or acts, thing or things whatsoever, whereby or by means whereof the above mentioned and described premises, or any part or parcel thereof, now are, or at any time hereafter shall or may be impeached, charged or encumbered, in any manner or way whatsoever.

In Witness Whereof, the parties of the first part have set THEIR hands and seals or caused these presents to be signed by its proper corporate officers and caused its proper corporate seal to be hereunto affixed, the day and year first above written.

Signed, Sealed and Delivered in the Presence of

Henry Schneider
HENRY SCHNEIDER

Frieda Schneider
FRIEDA SCHNEIDER

RUDOLPH R. NADDEO ATTORNEY AT LAW
OF THE STATE OF NEW JERSEY

This deed was prepared by
Rudolph R. Naddeo
RUDOLPH R. NADDEO
AN ATTORNEY AT LAW of N.J.

LIBER 3156 PG 275

Order and Current Owner Information with Mortgages

Order Number: 278939-C Order Type: Searched Thru: 8 /20/2011

Order Name: PONTE EQUITIES INC

Order Name:

Address: 69 HARRIONS ST Town: HOBOKEN County HUDSON State: NJ

Grantor: V. PONTE & SONS INC

Grantee: PONTE EQUITIES INC

Date of Deed: 12/3 /1990 Recorded: 1 /15/1991 Considerations: $0

Book 4365 Page: 278

Grantor:

Grantee:

Date of Deed: Recorded: Considerations: $0

Book Page:

Comments:

Prior Deed 4170/005

Property Description

Lot: 7 Block: 12

Additional Information

☐ Tax Info ☐ Mortgages ☐ Sat PMM ☐ Judge Liens ☐ Lis Pen

☐ Prev Deed ☐ Ease Rest ☐ Estate ☐ Foreclosure ☐ UCC Check

Tot Value: $0 Land Value: $0 Improvement: $0

Year: 0 Taxes $0 ☐ Current

Mortgage Information

Mortgage Date: Mtg Recorded: Mtg Amt $0

Mortgagee 1: NO OPEN MORTGAGES FOUND ☐ Open Ended

Mtg Book: Mtg Page: ☐ Assigned

Assignee: ☐ Agreement

Asn Book: Asn Page Asn Date Asn Recorded

Signed:

Mortgage Date: Mtg Recorded: Mtg Amt: $0

Mortgagee 2: ☐ Open Ended

Mtg Book: Mtg Page ☐ Assigned

Assignee: ☐ Agreement

Asn Book: Asn Page Asn Date Asn Recorded

Signed

Mortgage Date: Mtg Recorded: Mtg Amt: $0

Mortgagee 3: ☐ Open Ended

Mtg Book Mtg Page ☐ Assigned

Assignee ☐ Agreement

Asn Book: Asn Page Asn Date Asn Recorded

Signed

NO 1845—AFFIDAVIT OF CONSIDERATION
RIF-1 (Rev. 1/1/86)

STATE OF NEW JERSEY
AFFIDAVIT OF CONSIDERATION OR EXEMPTION
(c. 49, P.L. 1968)
or
PARTIAL EXEMPTION
(c. 176, P. L. 1975)

ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N. J. 07016
R V 1—1

To Be Recorded With Deed Pursuant to c. 49, P.L. 1968, as amended by c. 225, P.L. 1985 (N.J.S.A. 46:15-5 et seq.)

STATE OF NEW JERSEY
COUNTY OF BERGEN } ss.

FOR RECORDER'S USE ONLY
Consideration $
Realty Transfer Fee $ *
Date 1-4-91 By

*Use symbol "C" to indicate that fee is exclusively for county use.

(1) PARTY OR LEGAL REPRESENTATIVE (See Instructions #3, 4 and 5 on reverse side)

Deponent, ANGELO J. PONTE (Name), being duly sworn according to law upon his/her oath deposes and says that he/she is the Secretary of V. PONTE & SONS, INC. (Note whether Grantor, Grantee, Legal Representative, Corporate Officer, Officer of Title Co. Lending Institution, etc.)

In a deed dated December 3, 1990, transferring real property identified as Block No. 12

Lot No. 7 located at 69 Harrison Street, Hoboken, New Jersey (Street Address, Municipality, County)

and annexed hereto.

(2) CONSIDERATION (See Instruction #6)

Deponent states that, with respect to deed hereto annexed, the actual amount of money and the monetary value of any other thing of value constituting the entire compensation paid or to be paid for the transfer of title to the lands, tenements or other realty, including the remaining amount of any prior mortgage to which the transfer is subject or which is to be assumed and agreed to be paid by the grantee and any other lien or encumbrance thereon not paid, satisfied or removed in connection with the transfer of title is $

(3) FULL EXEMPTION FROM FEE Deponent claims that this deed transaction is fully exempt from the Realty Transfer Fee imposed by c.49, P.L. 1968, for the following reason(s): Explain in detail. (See Instruction #7.) Mere reference to exemption symbol is not sufficient.

The amount of consideration is less than one hundred dollars.

(4) PARTIAL EXEMPTION FROM FEE *NOTE: All boxes below apply to grantor(s) only. ALL BOXES IN APPROPRIATE CATEGORY MUST BE CHECKED. Failure to do so will void claim for partial exemption. (See Instructions #8 and #9)*

Deponent claims that this deed transaction is exempt from the increased portion of the Realty Transfer Fee imposed by c.176, P.L. 1975 for the following reason(s):

a) SENIOR CITIZEN (See Instruction #8)
- ☐ Grantor(s) 62 yrs. of age or over.*
- ☐ One or two-family residential premises
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

b) BLIND (See Instruction #8)
- ☐ Grantor(s) legally blind.*
- ☐ One or two-family residential premises.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

DISABLED (See Instruction #8)
- ☐ Grantor(s) permanently and totally disabled.*
- ☐ One or two-family residential premises.
- ☐ Receiving disability payments.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ Not gainfully employed.
- ☐ No joint owners other than spouse or other qualified exempt owners.

*IN THE CASE OF HUSBAND AND WIFE, ONLY ONE GRANTOR NEED QUALIFY.

c) LOW AND MODERATE INCOME HOUSING (See Instruction #8)
- ☐ Affordable According to H.U.D. Standards.
- ☐ Meets Income Requirements of Region.
- ☐ Reserved for Occupancy.
- ☐ Subject to Resale Controls.

d) NEW CONSTRUCTION (See Instruction #9)
- ☐ Entirely new improvement.
- ☐ Not previously used for any purpose.
- ☐ Not previously occupied.

Deponent makes this Affidavit to induce the County Clerk or Register of Deeds to record the deed and accept the fee submitted herewith in accordance with the provisions of c. 49, P.L. 1968.

Subscribed and Sworn to before me this 3 day of December, 1990

Joseph A. Foglia
Attorney at Law
State of New Jersey

Name of Deponent (type above line): V. PONTE & SONS, INC.
Name of Grantor (type above line)

Address of Deponent: 2 Hope St., Jersey City, NJ
Address of Grantor at Time of Sale: 2 Hope Street, Jersey City, NJ

FOR OFFICIAL USE ONLY This space for use of County Clerk or Register of Deeds.
Instrument Number 00276 County
Deed Number Book Page
Deed Dated 12-3-90 Date Recorded 1-15-91

IMPORTANT - BEFORE COMPLETING THIS AFFIDAVIT, PLEASE READ THE INSTRUCTIONS ON THE REVERSE SIDE HEREOF.
This form is prescribed by the Director, Division of Taxation in the Department of the Treasury, as required by law, and may not be altered or amended without the approval of the Director.
ORIGINAL — White copy to be retained by County.
DUPLICATE — Yellow copy to be forwarded by County to Division of Taxation on partial exemption from fee (N.J.A.C. 18:18—8.12).
TRIPLICATE — Pink copy is your file copy.

BK4365PG279

DEED

Dated: december 3 , 19 90

V. PONTE & SONS, INC.

Grantor,

TO

PONTE EQUITIES INC.

Grantee.

Record and return to:

LAW OFFICE OF JOSEPH A. FOGLIA
171 E. Ridgewood Ave.
Ridgewood, New Jersey 07450

90 JAN 15 PM 3:04

Promises by Grantor. The Grantor promises that the Grantor has done no act to encumber the property. This promise is called a "covenant as to grantor's acts" (N.J.S.A. 46:4-6). This promise means that the Grantor has not allowed anyone else to obtain any legal rights which affect the property (such as by making a mortgage or allowing a judgment to be entered against the Grantor).

Signature. The Grantor signs this Deed as of the date at the top of the first page.

Witnessed by:

.....(Seal)
ALEXANDER RIOS, JR.

.....(Seal)

LEONARD H. FRANCO

STATE OF NEW JERSEY, COUNTY OF HUDSON SS.:

I CERTIFY that on JULY 12th, 19 89,

ALEXANDER RIOS, JR., SINGLE, personally came before me and acknowledged under oath, to my satisfaction, that this person (or if more than one, each person):

(a) is named in and personally signed this Deed;
(b) signed, sealed and delivered this Deed as his or her act and deed; and
(c) made this Deed for $120,000.00 as the full and actual consideration paid or to be paid for the transfer of title. (Such consideration is defined in N.J.S.A. 46:15-5.)

.....
(Print name and take below signature)
LEONARD H. FRANCO
ATTORNEY AT LAW OF NEW JERSEY

BK4170PG006

Order and Current Owner Information with Mortgages

Order Number: 278939-B Order Type: Searched Thru: 8 /20/2011

Order Name: PONTE EQUITIES INC

Order Name: 51-53,55,57 PATERSON AVE

Address: AND 58-62 JACKSON STREET Town: HOBOKEN County HUDSON State: NJ

Grantor: DESBROSSES GARAGE CORP

Grantee: PONTE EQUITIES INC

Date of Deed: 12/3 /1990 Recorded: 1 /15/1991 Considerations: $0

Book 4365 Page: 261

Grantor: V. PONTE & SONS INC

Grantee: PONTE EQUITIES INC

Date of Deed: 12/3 /1990 Recorded: 1 /15/1991 Considerations: $0

Book 4365-270, Page: 274,278

Comments:

Prior Deed 3466/102 & 2/082/084

Property Description

Lot: 12,13,14,16-18 Block: 12

Additional Information

☐ Tax Info ☐ Mortgages ☐ Sat PMM ☐ Judge Liens ☐ Lis Pen

☐ Prev Deed ☐ Ease Rest ☐ Estate ☐ Foreclosure ☐ UCC Check

Tot Value: $0 Land Value: $0 Improvement: $0

Year: 0 Taxes $0 ☐ Current

Mortgage Information

Mortgage Date: Mtg Recorded: Mtg Amt $0

Mortgagee 1: NO OPEN MORTGAGES FOUND ☐ Open Ended

Mtg Book: Mtg Page: ☐ Assigned

Assignee: ☐ Agreement

Asn Book: Asn Page Asn Date Asn Recorded

Signed:

Mortgage Date: Mtg Recorded: Mtg Amt: $0

Mortgagee 2: ☐ Open Ended

Mtg Book: Mtg Page ☐ Assigned

Assignee: ☐ Agreement

Asn Book: Asn Page Asn Date Asn Recorded

Signed

Mortgage Date: Mtg Recorded: Mtg Amt: $0

Mortgagee 3: ☐ Open Ended

Mtg Book Mtg Page ☐ Assigned

Assignee ☐ Agreement

Asn Book: Asn Page Asn Date Asn Recorded

Signed

103—DEED - BARGAIN AND SALE (Covenant as to Grantor's Acts)
IND. TO IND. OR CORP. — Plain Language D RVST—1

Copyright© 1982 By ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N.J. 07016

000272

DEED

Prepared by: (Print signer's name below signature)

JOSEPH A. FOGLIA, ESQ.

This Deed is made on December 3, 1990,

BETWEEN

DESBROSSES GARAGE CORP.

A COPY OF THIS DEED HAS BEEN SENT TO [illegible]

whose address is 511 Canal Street, New York, New York

referred to as the Grantor.

AND

FONTE EQUITIES, INC.,

whose post office address is 2 Hope Street, Jersey City, New Jersey

referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of

The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of Hoboken
Block No. 12 Lot No. 16 Account No.

☐ No property tax identification number is available on the date of this deed. (Check box if applicable.)

Property. The property consists of the land and all the buildings and structures on the land in the City of Hoboken County of Hudson and State of New Jersey. The legal description is:

TRACT 1

ALL those certain lots, tract or parcel of land and premises, hereinafter particularly described, situate lying and being in the City of Hoboken County of Hudson and State of New Jersey, and which are known and distinguished upon a certain map entitled "Map of Property situate at Hoboken, Hudson County, New Jersey, belonging to the Estate of John G. Coster, deceased, surveyed and laid out into lots, November 1860, by Daniel Ewen, Austin D. Ewen, City Surveyors, New York," filed in the office of the Clerk of said County of Hudson as lots one (1), two (2), three (3), four (4), sixteen (16), seventeen (17), and eighteen (18), in Block number twelve (12).

Being part of the premises described in a deed from William McGuna, et ux., to the North Hudson County Railway Company, predecessor of Public Service Coordinated Transport, dated September 11, 1884 and recorded September 11, 1884, in the Clerk's (now Register's) Office of Hudson County, in Book 395 of Deeds for said County, on pages 80, etc.

Subject to the erection or maintenance, or both, by Public Service Electric and Gas Company, its successors and assigns, of poles, wires, and appurtenances on or near the curb lines of streets or avenues abutting the hereinabove - described premises.

Also, subject to encroachments, restrictions and reservations of record, if any.

This sale and conveyance was approved by the Board of Public Utility Commissioners of the State of New Jersey, by certificate dated May 8, 1958, Docket No. 10638.

TRACT 2

BEGINNING at a point in the southeasterly line of Harrison Street where the same is intersected by the southwesterly line of Lot Number Five (5) in Block Twelve (12) as shown on the hereinafter recited map, distant northeasterly 100 feet measured along said southeasterly line of Harrison Street from its intersection with the northeasterly line of Observer Highway, formerly Ferry Street, thence,

(1) North 32° East, along southeasterly line of Harrison Street 50 feet to a point in the northeasterly line of Lot Number Six (6) in Block Twelve (12) as shown on said map; thence

(2) South 58° 04' East, along said northeasterly line of Lot Number Six (6) in Block Twelve (12) as shown on said map, 100 feet to a point in the rear line of Lot Number Six (6) in Block Twelve (12) as shown on said map; thence

Consideration $
Realty Transfer Fee $
Addl. Fee $
Addl. Mtg. $
By:
Total $
R.S. Rec.
Aud. Rec.

NC 1645—AFFIDAVIT OF CONSIDERATION
RTF-1 (Rev. 1/1/85)

STATE OF NEW JERSEY
AFFIDAVIT OF CONSIDERATION OR EXEMPTION
(c. 49, P.L. 1968)
or
PARTIAL EXEMPTION
(c. 176, P. L. 1975)

ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N. J. 07016
RV T-1

To Be Recorded With Deed Pursuant to c. 49, P.L. 1968, as amended by c. 225, P.L. 1985 (N.J.S.A. 46:15-5 et seq.)

STATE OF NEW JERSEY
COUNTY OF BERGEN } ss.

FOR RECORDER'S USE ONLY
Consideration $
Realty Transfer Fee $
Date 1-15-91 By

*Use symbol "C" to indicate that fee is exclusively for county use.

(1) PARTY OR LEGAL REPRESENTATIVE (See Instructions #3, 4 and 5 on reverse side)

Deponent, ANGELO J. PONTE (Name), being duly sworn according to law upon his/her oath deposes and says that he/she is the Secretary of DESBROSSES GARAGE CORP. (State whether Grantor, Grantee, Legal Representative, Corporate Officer, Officer of Title Co., Lending Institution, etc.)

in a deed dated December 3, 1990, transferring real property identified as Block No. 12

Lot No. 16 located at 58-62 Jackson Street, Hoboken, New Jersey (Street Address, Municipality, County)

and annexed hereto.

(2) CONSIDERATION (See Instruction #6)

Deponent states that, with respect to deed hereto annexed, the actual amount of money and the monetary value of any other thing of value constituting the entire compensation paid or to be paid for the transfer of title to the lands, tenements or other realty, including the remaining amount of any prior mortgage to which the transfer is subject or which is to be assumed and agreed to be paid by the grantee and any other lien or encumbrance thereon not paid, satisfied or removed in connection with the transfer of title is $

(3) FULL EXEMPTION FROM FEE Deponent claims that this deed transaction is fully exempt from the Realty Transfer Fee imposed by c.49, P.L. 1968, for the following reason(s): Explain in detail. (See Instruction #7.) Mere reference to exemption symbol is not sufficient.

The amount of consideration is less than one hundred dollars.

(4) PARTIAL EXEMPTION FROM FEE *NOTE: All boxes below apply to grantor(s) only. ALL BOXES IN APPROPRIATE CATEGORY MUST BE CHECKED. Failure to do so will void claim for partial exemption. (See Instructions #8 and #9)*

Deponent claims that this deed transaction is exempt from the increased portion of the Realty Transfer Fee imposed by c.176, P.L. 1975 for the following reason(s):

a) SENIOR CITIZEN (See Instruction #8)
- ☐ Grantor(s) 62 yrs. of age or over.*
- ☐ One or two-family residential premises
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

b) BLIND (See Instruction #8)
- ☐ Grantor(s) legally blind.*
- ☐ One or two-family residential premises.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

DISABLED (See Instruction #8)
- ☐ Grantor(s) permanently and totally disabled.*
- ☐ One or two-family residential premises.
- ☐ Receiving disability payments.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ Not gainfully employed.
- ☐ No joint owners other than spouse or other qualified exempt owners.

*IN THE CASE OF HUSBAND AND WIFE, ONLY ONE GRANTOR NEED QUALIFY.

c) LOW AND MODERATE INCOME HOUSING (See Instruction #8)
- ☐ Affordable According to H.U.D. Standards.
- ☐ Meets Income Requirements of Region.
- ☐ Reserved for Occupancy.
- ☐ Subject to Resale Controls.

d) NEW CONSTRUCTION (See Instruction #9)
- ☐ Entirely new improvement.
- ☐ Not previously used for any purpose.
- ☐ Not previously occupied.

Deponent makes this Affidavit to induce the County Clerk or Register of Deeds to record the deed and accept the fee submitted herewith in accordance with the provisions of c. 49, P.L. 1968.

Subscribed and Sworn to before me this 3 day of December, 19 90

Joseph A. Fogila
Attorney at Law
State of New Jersey

(Name of Grantee (sign above line)) DESBROSSES GARAGE CORP. (Name of Grantor (sign above line))

511 Canal St., New York, NY (Address of Deponent) 511 Canal St., New York, NY (Address of Grantee at Time of Sale)

FOR OFFICIAL USE ONLY This space for use of County Clerk or Register of Deeds.
Instrument Number 002 72 County
Deed Number Book Page
Deed Dated 12-3-90 Date Recorded 1-15-91

IMPORTANT - BEFORE COMPLETING THIS AFFIDAVIT, PLEASE READ THE INSTRUCTIONS ON THE REVERSE SIDE HEREOF.
This form is prescribed by the Director, Division of Taxation in the Department of the Treasury, as required by law, and may not be altered or amended without the approval of the Director.
ORIGINAL — White copy to be retained by County.
DUPLICATE — Yellow copy to be forwarded by County to Division of Taxation on partial exemption from fee (N.J.A.C. 18:16—6.12).
TRIPLICATE — Pink copy is your file copy.

BK 4365 PG 263

RECORDED
1991 JAN 15 PM 2:59

DEED

DESBROSSES GARAGE CORP.

Grantor.

TO

PONTE EQUITIES, INC.

Grantee.

Dated: December 3 , *19* 90

Record and return to:

LAW OFFICE OF JOSEPH A. FOGLIA
171 E. Ridgewood Ave.
Ridgewood, New Jersey 07450

NC 1645—AFFIDAVIT OF CONSIDERATION
RTF-1 (Rev. 1/1/86)

STATE OF NEW JERSEY
AFFIDAVIT OF CONSIDERATION OR EXEMPTION
(c. 49, P.L. 1968)
or
PARTIAL EXEMPTION
(c. 176, P. L. 1975)

ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N. J. 07016
R V T—1

To Be Recorded With Deed Pursuant to c. 49, P.L. 1968, as amended by c. 225, P.L. 1985 (N.J.S.A. 46:15-5 et seq.)

STATE OF NEW JERSEY
COUNTY OF BERGEN } ss.

FOR RECORDER'S USE ONLY
Consideration $
Realty Transfer Fee $ *
Date 12-15-91 By

*Use symbol "C" to indicate that fee is exclusively for county use.

(1) PARTY OR LEGAL REPRESENTATIVE (See Instructions #3, 4 and 5 on reverse side)

Deponent, ANGELO J. PONTE (Name), being duly sworn according to law upon his/her oath deposes and says that he/she is the Secretary of V. PONTE & SONS, INC. (State whether Grantor, Grantee, Legal Representative, Corporate Officer, Officer of Title Co. Lending Institution, etc.)

in a deed dated December 3, 1990, transferring real property identified as Block No. 12

Lot No. 13, 14 located at 51, 53-55 Paterson Avenue, Hoboken, New Jersey (Street Address, Municipality, County)

and annexed hereto.

(2) CONSIDERATION (See Instruction #6)

Deponent states that, with respect to deed hereto annexed, the actual amount of money and the monetary value of any other thing of value constituting the entire compensation paid or to be paid for the transfer of title to the lands, tenements or other realty, including the remaining amount of any prior mortgage to which the transfer is subject or which is to be assumed and agreed to be paid by the grantee and any other lien or encumbrance thereon not paid, satisfied or removed in connection with the transfer of title is $

(3) FULL EXEMPTION FROM FEE Deponent claims that this deed transaction is fully exempt from the Realty Transfer Fee imposed by c.49, P.L. 1968, for the following reason(s): Explain in detail. (See Instruction #7.) Mere reference to exemption symbol is not sufficient.

The amount of consideration is less than ten dollars.

(4) PARTIAL EXEMPTION FROM FEE *NOTE: All boxes below apply to grantor(s) only. ALL BOXES IN APPROPRIATE CATEGORY MUST BE CHECKED. Failure to do so will void claim for partial exemption. (See Instructions #8 and #9)*

Deponent claims that this deed transaction is exempt from the increased portion of the Realty Transfer Fee imposed by c.176, P.L. 1975 for the following reason(s):

a) **SENIOR CITIZEN** (See Instruction #8)
- ☐ Grantor(s) 62 yrs. of age or over.*
- ☐ One or two-family residential premises
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

b) **BLIND** (See Instruction #8)
- ☐ Grantor(s) legally blind.*
- ☐ One or two-family residential premises.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

DISABLED (See Instruction #8)
- ☐ Grantor(s) permanently and totally disabled.*
- ☐ One or two-family residential premises.
- ☐ Receiving disability payments.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ Not gainfully employed.
- ☐ No joint owners other than spouse or other qualified exempt owners.

*IN THE CASE OF HUSBAND AND WIFE, ONLY ONE GRANTOR NEED QUALIFY.

c) **LOW AND MODERATE INCOME HOUSING** (See Instruction #8)
- ☐ Affordable According to H.U.D. Standards.
- ☐ Meets Income Requirements of Region.
- ☐ Reserved for Occupancy.
- ☐ Subject to Resale Controls.

d) **NEW CONSTRUCTION** (See Instruction #9)
- ☐ Entirely new improvement.
- ☐ Not previously used for any purpose.
- ☐ Not previously occupied.

Deponent makes this Affidavit to induce the County Clerk or Register of Deeds to record the deed and accept the fee submitted herewith in accordance with the provisions of c. 49, P.L. 1968.

Subscribed and Sworn to before me this 3 day of December, 19 90

Joseph A. Foglia
Attorney at Law
State of New Jersey

Name of Grantor (Type above line): V. PONTE & SONS, INC.

Address of Deponent: 2 Hope St., Jersey City, NJ

Address of Grantee at Time of Sale: 2 Hope St., Jersey City, NJ

FOR OFFICIAL USE ONLY This space for use of County Clerk or Register of Deeds.
Instrument Number 002712 County
Deed Number Book Page
Deed Dated 12-3-90 Date Recorded 12-15-91

IMPORTANT - BEFORE COMPLETING THIS AFFIDAVIT, PLEASE READ THE INSTRUCTIONS ON THE REVERSE SIDE HEREOF.
This form is prescribed by the Director, Division of Taxation in the Department of the Treasury, as required by law, and may not be altered or amended without the approval of the Director.
ORIGINAL — White copy to be retained by County.
DUPLICATE — Yellow copy to be forwarded by County to Division of Taxation on partial exemption from fee (N.J.A.C. 18:16—8.12).
TRIPLICATE — Pink copy is your file copy.

BK4365PG271

DEED

Dated: December 3 , 1990

V. PONTE & SONS, INC.

Grantor.

TO

PONTE EQUITIES, INC.

Grantee.

Record and return to:

LAW OFFICE OF JOSEPH A. FOGLIA
171 E. Ridgewood Ave.
Ridgewood, New Jersey 07450

BK4365PG273

Austin Ewen, City surveyors, New York" duly filed in the Office of the Clerk of said County of Hudson is designated, distinguished and known as lot numbered 13 in block numbered 12 fronting and facing the Southerly side of Paterson Avenue between Jackson and Harrison Streets and being 99 feet 10 inches deep on the Easterly side and 121 feet 3 inches deep on the Westerly side and 25 feet wide in the rear with a slanting frontage of about 32 feet 11 inches on Paterson Avenue Aforesaid.

Promises by Grantor. The Grantor promises that the Grantor has done no act to encumber the property. This promise is called a "covenant as to grantor's acts" (N.J.S.A. 46:4-6). This promise means that the Grantor has not allowed anyone else to obtain any legal rights which affect the property (such as by making a mortgage or allowing a judgment to be entered against the Grantor).

Signatures. The Grantor signs this Deed as of the date at the top of the first page.

Witnessed by:

ATTORNEY AT LAW OF THE STATE OF NEW JERSEY

PRIOR H. SCHLENDORF (Seal)

BARBARA SCHLENDORF (Seal)

STATE OF NEW JERSEY, COUNTY OF BERGEN SS.:

I CERTIFY that on August 9, 1985 PRIOR H. SCHLENDORF AND BARBARA SCHLENDORF personally came before me and acknowledged under oath, to my satisfaction, that this person (or if more than one, each person):

(a) is named in and personally signed this Deed;
(b) signed, sealed and delivered this Deed as his or her act and deed; and
(c) made this Deed for $ 150,000.00 as the full and actual consideration paid or to be paid for the transfer of title. (Such consideration is defined in N.J.S.A. 46:15-5.)

Prepared by:

N.J.S.A. 46:15-13 (Print signer's name below signature)

(Print name and title below signature)
ATTORNEY AT LAW OF THE STATE OF NEW JERSEY

000477 **DEED**

Prepared by: (Print signer's name below signature)
SETH MININSOHN, ESQ.

This Deed is made on January 13, 1989,

BETWEEN

WILLIAM BURCHILL and ELIZABETH BURCHILL, husband & wife

whose address is 57 Paterson Ave., Hoboken, NJ 07030 referred to as the Grantor,

AND

V. PONTE & SONS, INC.

whose post office address is 511 Canal Street, NY, NY 10013 referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of $140,000.00 (one hundred forty thousand dollars).

The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of Hoboken
Block No. 12 Lot No. 12 Account No.
☐ No property tax identification number is available on the date of this deed. (Check box if applicable.)

Property. The property consists of the land and all the buildings and structures on the land in the City of Hoboken County of Hudson and State of New Jersey. The legal description is:

SEE LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF.

Promises by Grantor. The Grantor promises that the Grantor has done no act to encumber the property. This promise is called a "covenant as to grantor's acts" (N.J.S.A. 46:4-6). This promise means that the Grantor has not allowed anyone else to obtain any legal rights which affect the property (such as by making a mortgage or allowing a judgment to be entered against the Grantor).

Signatures. The Grantor signs this Deed as of the date at the top of the first page.

Witnessed by:

SETH MININSOHN, ESQ.
An Attorney at Law of NJ

WILLIAM BURCHILL (Seal)

ELIZABETH BURCHILL (Seal)

STATE OF NEW JERSEY, COUNTY OF HUDSON SS.:

I CERTIFY that on January 13, 1989,

William Burchill and Elizabeth Burchill personally came before me and acknowledged under oath, to my satisfaction, that this person (or if more than one, each person):

(a) is named in and personally signed this Deed;
(b) signed, sealed and delivered this Deed as his or her act and deed; and
(c) made this Deed for $140,000.00 as the full and actual consideration paid or to be paid for the transfer of title. (Such consideration is defined in N.J.S.A. 46:15-5.)

(Print name and sign below signature)
SETH MININSOHN, ESQ.
An Attorney at Law of NJ.

Record and Return to:
Eugene P. O'Connell, Esq.
544 Summit Ave.
Jersey City, NJ 07306

Consideration $ 140,000.00 RF. 400.00
Realty Transfer Fee 1,400.00 Int.
Add'l Fee 1/7 87
Add'l N.C.
Total $ 400.00 Tax Int. 57.00

BK4082PG084

RECEIVED
9 JAN 17 PM 2:41
RECORDING
DIVISION

NC 1646 – AFFIDAVIT OF CONSIDERATION
REF-1 (Rev. 1/1/85)

STATE OF NEW JERSEY
AFFIDAVIT OF CONSIDERATION OR EXEMPTION
(c. 49, P.L. 1968)
or
PARTIAL EXEMPTION
(c. 176, P. L. 1975)

ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N. J. 07016
RV T-1

To Be Recorded With Deed Pursuant to c. 49, P.L. 1968, as amended by c. 225, P.L. 1985 (N.J.S.A. 46:15-5 et seq.)

STATE OF NEW JERSEY
COUNTY OF BERGEN } ss.

FOR RECORDER'S USE ONLY
Consideration $ _____
Realty Transfer Fee $ _____ *
Date 1-15-91 By _____
*Use symbol "C" to indicate that fee is exclusively for county use.

(1) PARTY OR LEGAL REPRESENTATIVE (See Instructions #3, 4 and 5 on reverse side)

Deponent, ANGELO J. PONTE (Name), being duly sworn according to law upon his/her oath deposes and says that he/she is the Secretary of V. PONTE & SONS, INC. (State whether Grantor, Grantee, Legal Representative, Corporate Officer, Officer of Title Co., Lending Institution, etc.)

in a deed dated December 3, 1990, transferring real property identified as Block No. 12

Lot No. 12 located at 57 Paterson Street, Hoboken, New Jersey (Street Address, Municipality, County)

_____ and annexed hereto.

(2) CONSIDERATION (See Instruction #6)

Deponent states that, with respect to deed hereto annexed, the actual amount of money and the monetary value of any other thing of value constituting the entire compensation paid or to be paid for the transfer of title to the lands, tenements or other realty, including the remaining amount of any prior mortgage to which the transfer is subject or which is to be assumed and agreed to be paid by the grantee and any other lien or encumbrance thereon not paid, satisfied or removed in connection with the transfer of title is $ _____

(3) FULL EXEMPTION FROM FEE Deponent claims that this deed transaction is fully exempt from the Realty Transfer Fee imposed by c.49, P.L. 1968, for the following reason(s): Explain in detail. (See Instruction #7.) Mere reference to exemption symbol is not sufficient.

The amount of consideration is less than ten dollars

(4) PARTIAL EXEMPTION FROM FEE *NOTE: All boxes below apply to grantor(s) only. ALL BOXES IN APPROPRIATE CATEGORY MUST BE CHECKED. Failure to do so will void claim for partial exemption. (See Instructions #8 and #9)*

Deponent claims that this deed transaction is exempt from the increased portion of the Realty Transfer Fee imposed by c.176, P.L. 1975 for the following reason(s):

a) **SENIOR CITIZEN** (See Instruction #8)
- ☐ Grantor(s) 62 yrs. of age or over.*
- ☐ One or two-family residential premises
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

b) **BLIND** (See Instruction #8)
- ☐ Grantor(s) legally blind.*
- ☐ One or two-family residential premises.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ No joint owners other than spouse or other qualified exempt owners.

DISABLED (See Instruction #8)
- ☐ Grantor(s) permanently and totally disabled.*
- ☐ One or two-family residential premises.
- ☐ Receiving disability payments.
- ☐ Owned and occupied by grantor(s) at time of sale.
- ☐ Not gainfully employed.
- ☐ No joint owners other than spouse or other qualified exempt owners.

*IN THE CASE OF HUSBAND AND WIFE, ONLY ONE GRANTOR NEED QUALIFY.

c) **LOW AND MODERATE INCOME HOUSING** (See Instruction #8)
- ☐ Affordable According to H.U.D. Standards.
- ☐ Meets Income Requirements of Region.
- ☐ Reserved for Occupancy.
- ☐ Subject to Resale Controls.

d) **NEW CONSTRUCTION** (See Instruction #9)
- ☐ Entirely new improvement.
- ☐ Not previously used for any purpose.
- ☐ Not previously occupied.

Deponent makes this Affidavit to induce the County Clerk or Register of Deeds to record the deed and accept the fee submitted herewith in accordance with the provisions of c. 49, P.L. 1968.

Subscribed and Sworn to before me this 3 day of December, 19 90

Name of Deponent (type above line) — V. PONTE & SONS, INC. Name of Grantor (type above line)

2 Hope St., Jersey City, NJ — Address of Deponent

2 Hope St., Jersey City, NJ — Address of Grantor at Time of Sale

Joseph A. Foglia
Attorney at Law
State of New Jersey

FOR OFFICIAL USE ONLY This space for use of County Clerk or Register of Deeds.
Instrument Number 08275 County _____
Deed Number _____ Book _____ Page _____
Deed Dated 12-3-90 Date Recorded 1-15-91

IMPORTANT - BEFORE COMPLETING THIS AFFIDAVIT, PLEASE READ THE INSTRUCTIONS ON THE REVERSE SIDE HEREOF.
This form is prescribed by the Director, Division of Taxation in the Department of the Treasury, as required by law, and may not be altered or amended without the approval of the Director.
ORIGINAL — White copy to be retained by County.
DUPLICATE — Yellow copy to be forwarded by County to Division of Taxation on partial exemption from fee (N.J.A.C. 18:16—8.12).
TRIPLICATE — Pink copy is your file copy.

BK4365PG275

DEED

V. PONTE & SONS, INC.

Grantor,

TO

PONTE EQUITIES, INC.

Grantee,

Dated: December 3 , 1990

Record and return to:

Law Office of Joseph A. Foglia
171 E. Ridgewood Ave.
Ridgewood, New Jersey 07450

BK4365PG277

Lot 8 Block 12 63-65 Palaron Ave

Antonio RATTO 8/4/05 TO
Mario Ratto

7636 163 13209-105 Sat 999-163 2006
14660-33 Sat 1065-312 2008
16860 1

16860-1 D- 4-18-08 R-4-3008

Wells Fargo Bank NA

#37723 Mario RATTO
$ 400,000

AD05-156

SCHEDULE A

DESCRIPTION

All that certain tract of land situated and lying in the City of Hoboken, the County of Hudson, the State of New Jersey and more particularly described as follows:

BEGINNING at a point in the easterly line of Harrison Street, distant 58.33 feet southerly from the intersection formed by the southerly line of Paterson Avenue with the easterly line of Harrison Street; and running thence

1. South 76 degrees 56 minutes East a distance of 50.00 feet to a point; thence
2. South 13 degrees 04 minutes West and parallel to Harrison Street a distance of 65.00 feet to a point; thence
3. North 76 degrees 56 minutes West a distance of 50.00 feet to a point in the easterly line of Harrison Street; thence
4. North 13 degrees 04 minutes East and along the easterly line of Harrison Street a distance of 65.00 feet to the point and place of BEGINNING.

FOR INFORMATION ONLY:
Commonly known as: 63-65 Paterson Avenue, Hoboken, NJ
Block 12 Lot 8 as shown on
Tax Map of the City of Hoboken

BEING known and designated as a portion of Lots 8 and 9 in Block 12 on a certain map entitled "Map of Property situate at Hoboken, Hudson County, NJ, belonging to the Estate of John G. Coster, deceased," which map was filed in the Hudson County Register's Office on 8/6/1862 as Map No. 846.

End Schedule A Description

4. Promises by Grantor. The Grantor promises that the Grantor has done no act to encumber the Property. This promise is called a "covenant as to grantors' acts" (N.J.S.A. 46:4-6). This promise means that the Grantor has not allowed anyone else to obtain any legal rights which affect the Property (such as by making a mortgage or allowing a judgment to be entered against the Grantor).

5. Signatures. The Grantor signs this Deed as of the date at the top of the first page. (Print name below each signature.)

Witness:

Bernard J. Berkowitz,
Attorney at Law of NJ

JENNSHOOU VINCENT YOUNG

STATE OF NEW JERSEY, COUNTY OF MORRIS , SS:
I CERTIFY that on August 5, 2005

JENNSHOOU VINCENT YOUNG

personally came before me and stated to my satisfaction that this person (or if more than one, each person): (a) was the maker of this Deed; (b) executed this Deed as his or her own act; and (c) made this Deed for $680,000.00 as the full and actual consideration paid or to be paid for the transfer of title. (Such consideration is defined in N.J.S.A. 46:15-5.)

Bernard J. Berkowitz, Attorney at Law of NJ

RECORD AND RETURN TO:

Michael A. Mongiello, Esq.
Mongiello& Mongello
70 Hudson Street
Hoboken, NJ 07030

OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY

File Number: CTA-10210

SCHEDULE A
LEGAL DESCRIPTION

ALL that certain tract or parcel of land, situated, lying and being in the City of Hoboken, County of Hudson, State of New Jersey, more particularly described as follows:

BEGINNING at a point in the easterly line of Harrison Street, distant 58.33 feet southerly from the intersection formed by the southerly line of Paterson Avenue with the easterly line of Harrison Street; and running thence

(1) South 76 degrees 56 minutes East, a distance of 50.00 feet to a point; thence

(2) South 13 degrees 4 minutes West and parallel to Harrison Street, a distance of 65.00 feet to a point; thence

(3) North 76 degrees 56 minutes West, a distance of 50.00 feet to a point in the easterly line of Harrison Street; thence

(4) North 13 degrees 4 minutes East and along the easterly line of Harrison Street a distance of 65.00 feet to the point and place of BEGINNING.

BEING known and designated as a portion of Lot 8 and 9 in Block 12 on a certain map entitled "Map of Property situate at Hoboken, Hudson County, NJ, belonging to the Estate of John G. Coster, deceased", filed in the Hudson County Clerk's/Register's Office on August 6, 1862 as Map 846.

NOTE: Being Lot(s) Lot: 8, Block: 12; Tax Map of the City of Hoboken, County of Hudson, State of New Jersey.

NOTE: Lot and Block shown for informational purposes only.

BK:16860 PG:00002

(P) "**Successor in Interest of Borrower**" means any party that has taken title to the Property, whether or not that party has assumed Borrower's obligations under the Note and/or this Security Instrument.

TRANSFER OF RIGHTS IN THE PROPERTY

This Security Instrument secures to Lender: (i) the repayment of the Loan, and all renewals, extensions and modifications of the Note; and (ii) the performance of Borrower's covenants and agreements under this Security Instrument and the Note. For these purposes, Borrower does hereby mortgage, grant and convey to Lender the following described property located in the COUNTY of HUDSON :

[Type of Recording Jurisdiction] [Name of Recording Jurisdiction]

SEE LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF.

*SEE ADJUSTABLE RATE RIDER

TAX STATEMENTS SHOULD BE SENT TO: WELLS FARGO HOME MORTGAGE, P.O. BOX 11701, NEWARK, NJ 071014701

Property Account Number:
63-65 PATTERSON AVE
HOBOKEN
("Property Address"):

which currently has the address of [Street] [City], New Jersey 07030 [Zip Code]

TOGETHER WITH all the improvements now or hereafter erected on the property, and all easements, appurtenances, and fixtures now or hereafter a part of the property. All replacements and additions shall also be covered by this Security Instrument. All of the foregoing is referred to in this Security Instrument as the "Property."

BORROWER COVENANTS that Borrower is lawfully seised of the estate hereby conveyed and has the right to grant and convey the Property and that the Property is unencumbered, except for encumbrances of record. Borrower warrants and will defend generally the title to the Property against all claims and demands, subject to any encumbrances of record.

THIS SECURITY INSTRUMENT combines uniform covenants for national use and non-uniform covenants with limited variations by jurisdiction to constitute a uniform security instrument covering real property.

UNIFORM COVENANTS. Borrower and Lender covenant and agree as follows:

1. Payment of Principal, Interest, Escrow Items, Prepayment Charges, and Late Charges. Borrower shall pay when due the principal of, and interest on, the debt evidenced by the Note and any prepayment charges and late charges due under the Note. Borrower shall also pay funds for Escrow Items pursuant to Section 3. Payments due under the Note and this Security Instrument shall be made in U.S. currency. However, if any check or other instrument received by Lender as payment under the Note or this

Lot 10 Block 12 61 Paterson Ave

11/17/75 TO

Angelo Ratto
Antonio Ratto
Francesco Ratto
John Ratto
Giuseppe Ratto
Mario Giuseppe Ratto
Trip Le A. Real Estate Co.

NOMtgs

other Jtb 16860-1 Lot 8 Bl 12

5144-60	TSC 4971-249
3196-143	8298-322
309-255	8073-103 227 William
3748-90 Bl 21	3206-256 Sat 7-10-87
4156-290 Blk 12 Lot 8	3424-120 ¢ 2-23-94
4321-76 Bl 121	3703-133 ¢ 3-29-96
4694-195 Bl 1766	5337-234 North Bergen
4694-197 Bl 1766	13209-105 Sat 949-163 2006 2005
4730-337 Bl 247	14660-33 Sat 1065-312
5106-332 Bl 12 Lot 8	2999-129 ¢ 7-5-89
5144-60	3008-986 ¢ 7-5-89
5904-201 Bl 247 Lot 1	3122-329 Sat 5-24-93
(Now other Jtb) 7636-163 Lot 8 Bl 12	3223-802 Sat 6-22-87
3230-137 402 Ege	3705-71 ¢ 5-31-90
3747-40 N. Bergen	4357-146 ¢ 9-1-93
4963-328 N. Bergen	4560-161 ¢ 7-12-01
5354-29 N. Bergen	4616-154 Sat 12-2-02
3412-632 N. Berg	TSC 5394-253 Sat 392-166 12-5-97

A COPY OF THIS DEED
WAS MADE AVAILABLE TO ASSESSOR

The street address of the Property is: 61 Paterson Avenue, Hoboken, New Jersey

4. **Promises by Grantor.** The Grantor promises that the Grantor has done no act to encumber the Property. This promise is called a "covenant as to grantor's acts" (N.J.S.A. 46:4-6). This promise means that the Grantor has not allowed anyone else to obtain any legal rights which affect the Property (such as by making a mortgage or allowing a judgment to be entered against the Grantor).

5. **Signatures.** The Grantor signs this Deed as of the date at the top of the first page. (Print name below each signature).

Witnessed By:

MICHAEL A. MONGIELLO

Angelo Ratto (Seal)
ANGELO RATTO

Antonio Ratto (Seal)
ANTONIO RATTO

Francesco Ratto
FRANCESCO RATTO

STATE OF NEW JERSEY, COUNTY OF HUDSON SS.:
I CERTIFY that on May 22, 1997

Angelo Ratto, Antonio Ratto and Francesco Ratto

personally came before me and stated to my satisfaction that this person (or if more than one, each person):
(a) was the maker of this Deed;
(b) executed this Deed as his or her own act; and,

(c) made this Deed for $ 1.00 as the full and actual consideration paid or to be paid for the transfer of title. (Such consideration is defined in N.J.S.A. 46:15-5.)

RECORD AND RETURN TO:
MICHAEL A. MONGIELLO, ESQ.
MONGIELLO & MONGIELLO
70 HUDSON STREET
HOBOKEN, NEW JERSEY 07030

(Print name and title below signature)
MICHAEL A. MONGIELLO, ESQ.
Attorney at Law of New Jersey

A COPY OF THIS DEED
HAS BEEN SENT TO ASSESSING OFFICE

LEGAL DESCRIPTION

Lot 10 in Block 12 on the official assessment map of the City of Hoboken, and which is known and distinguished on a certain map entitled "Map of property situate at Hoboken, Hudson Co., N.J., belonging to the Estate of John Coster, deceased, surveyed and laid out into losts November 1860 by Daniel Ewen and Austin D. Ewen, City Surveyors, N.Y." filed in the office of the Clerk (now Register) of the said County of Hudson is designated as Lot number Ten (10) in Block number Twelve (12) on said map, for dimensions and distances, reference being had to said map will more fully appear.

Excepting nevertheless, so much of said lot as was conveyed by Charles E. Butler and wife, to the North Hudson Railroad by Deed dated February 1, 1875 and recorded in the Hudson County Register's Office in Book 309 of Deeds on Page 255, etc.

Said premises are approximately 25' X 74'.

The grantors herein do hereby also grant and convey to the grantees herein all their right, title, and interest in and to the lands described and conveyed by Deed Book 309, Page 255 hereinabove mentioned.

Being the same premises conveyed to the Grantors herein by Deed from John Vitale and Irene Vitale, his wife on November 18, 1975 and recorded in the Hudson County Register's Office on December 13, 1975 in Deed Book 3196, Page 143.

Together with all and singular the buildings, improvements, ways, woods, waters, watercourses, rights, liberties, privileges, hereditaments and appurtenances to the same belonging or in anywise appertaining; and the reversion and reversions, remainder and remainders, rents, issues and profits thereof, and of every part and parcel thereof; And also all the estate, right, title, interest, use, possession, property, claim and demand whatsoever, of the Grantors both in law and in equity, of, in and to the premises herein described, and every part and parcel thereof, with the appurtenances. To Have and to Hold all and singular, the premises herein described, together with the appurtenances, unto the Grantees and to Grantees' proper use and benefit forever.

And the Grantors covenant that they have not done or executed, or knowingly suffered to be done or executed, any act, deed or thing whatsoever whereby or by means whereof the premises conveyed herein, or any part thereof, now are or at any time hereafter, will or may be charged or encumbered in any manner or way whatsoever.

In all references herein to any parties, persons, entities or corporations, the use of any particular gender or the plural or singular number is intended to include the appropriate gender or number as the text of the within instrument may require.

Wherever in this instrument any party shall be designated or referred to by name or general reference, such designation is intended to and shall have the same effect as if the words "heirs, executors, administrators, personal or legal representatives, successors and assigns" had been inserted after each and every such designation.

In Witness Whereof, the Grantors have hereunto set their hands and seals the day and year first above written.

Signed, Sealed and Delivered in the presence of

JOSEPH P. PERFILIO

John Vitale (L.S.)
JOHN VITALE

Irene Vitale (L.S.)
IRENE VITALE, his wife

State of New Jersey, County of Hudson } ss.: Be it Remembered, that on November 18, 19 75, before me, the subscriber, an attorney at Law of New Jersey, personally appeared John Vitale and Irene Vitale, his wife,

who, I am satisfied, are the persons named in and who executed the within Instrument, and thereupon they acknowledged that they signed, sealed and delivered the same as their vol act and deed, for the uses and purposes therein expressed, and that the full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1 (c), is $16,000.00.

Prepared by: JOSEPH P. PERFILIO

JOSEPH P. PERFILIO
Attorney at Law of New Jersey

920197

12
10

C E R T I F I C A T E O F S A L E

FOR UNPAID MUNICIPAL LIENS

I, LOUIS P. PICARDO C.T.C., COLLECTOR OF TAXES OF THE TAXING DISTRICT OF THE CITY OF HOBOKEN IN THE COUNTY OF HUDSON AND STATE OF NEW JERSEY, DO HEREBY CERTIFY THAT ON THE 17TH DAY OF JUNE 1992, AT A PUBLIC SALE OF LANDS FOR DELINQUENT MUNICIPAL LIENS, PURSUANT TO THE REVISED STATUTES OF NEW JERSEY, 1937, TITLE 54, CHAP. 5, AND THE AMENDMENTS AND SUPPLEMENTS THERETO,

SOLD TO City of Hoboken 90 Washington St. Hoboken N.J. 07030

FOR ONE THOUSAND ONE HUNDRED SEVENTY DOLLARS AND 77/100 CENTS

THE LAND IN SAID TAXING DISTRICT DESCRIBED AS-

BLOCK 12 , LOT 10 ,

AND KNOWN AS 61 PATERSON AVE. , ON THE TAX DUPLICATE THEREOF

AND ASSESSED THEREON TO RATTO, A ETALS T/A TRIPLE A RE CO

THE AMOUNT OF THE SALE WAS MADE UP OF THE FOLLOWING ITEMS-

	AMOUNT	INTEREST	TOTAL
TAXES FOR FIRST HALF 1991.....	$1,043.04	$104.77	$1,147.[illegible]
SEWER SERVICE CHARGES.....	$.00	$.00	$.00
WATER SERVICE CHARGES.....	$.00	$.00	$.00
ASSESSMENTS FOR IMPROVEMENTS.....			

COSTS OF SALE-

P.L. 1983, CHAPTER 478, APPROVED JANUARY 12, 1984

THE COST OF SALE SHALL BE 2 PER CENT OF THE EXISTING LIEN (TOTAL OF ITEMS ABOVE INCLUDING INTEREST) BUT NOT LESS THAN $15.00 AND NOT MORE THAN $100.00.

TOTAL COSTS OF SALE..... $22.[illegible]

TOTAL AMOUNT OF SALE..... $1,170.77

PREMIUM (IF ANY) PAID..... $.00

SAID SALE IS SUBJECT TO REDEMPTION OR REPAYMENT OF THE AMOUNT OF THE SALE, TOGETHER WITH INTEREST AT THE RATE OF 18 PER CENTUM PER ANNUM FROM THE DATE OF SALE, AND THE COSTS INCURRED BY THE PURCHASER AS DEFINED BY STATUTE. THE SALE IS SUBJECT TO MUNICIPAL LIENS ACCRUING AFTER JUNE 30, 1991, AND ASSESSMENT INSTALLMENTS NOT YET DUE, AMOUNTING TO $.00 AND INTEREST THEREON.

THE RIGHT TO REDEEM WILL EXPIRE IN SIX MONTHS AFTER THE SERVICE OF NOTICE TO REDEEM, EXCEPT THAT THE RIGHT TO REDEEM SHALL EXTEND FOR SIX MONTHS FROM THE DATE OF SALE OR FROM THE DATE OF SERVICE OF NOTICE WHERE THE MUNICIPALITY IS THE PURCHASER AND EXTEND FOR TWO YEARS FROM THE DATE OF SALE FOR ALL OTHER PURCHASERS.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THE 17TH DAY OF JUNE, 1992

S T A T E O F N E W J E R S E Y

LOUIS P. PICARDO C.T.C., TAX COLLECTOR

C O U N T Y O F H U D S O N

BE IT REMEMBERED, THAT ON THIS 17TH DAY OF JUNE, 1992 BEFORE ME A NOTARY PUBLIC OF NEW JERSEY, PERSONALLY APPEARED LOUIS P. PICARDO C.T.C., COLLECTOR OF TAXES OF THE TAXING DISTRICT OF THE CITY OF HOBOKEN IN HUDSON COUNTY OF HUDSON WHO, I AM SATISFIED, IS THE INDIVIDUAL DESCRIBED HEREINBEFORE WHO EXECUTED THE ABOVE CERTIFICATE OF SALE, AND I, HAVING MADE KNOWN TO HIM THE CONTENTS THEREOF, HE THEREUPON ACKNOWLEDGED TO ME THAT HE SIGNED, SEALED AND DELIVERED THE SAME, AS HIS VOLUNTARY ACT AND DEED, FOR THE USES AND PURPOSES THEREIN EXPRESSED.

VALENTINA GIACCHI
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires March 27, 1994

BK4971 PG249 PREPARED BY JOAN DOBBINS

RECEIVED 027688

92 JUN -4 PM 2:19

CERTIFICATE OF SALE

FOR UNPAID MUNICIPAL LIENS

CERTIFICATE No. 010166

I, LOUIS P. PICARDO, COLLECTOR OF TAXES of the taxing district of the CITY of HOBOKEN in the COUNTY of HUDSON and State of New Jersey, do hereby certify that on the 25th day of June, 2001 at a public sale of lands for delinquent municipal liens, pursuant to the Revised Statutes of New Jersey, 1937, Title 54, Chapter 5, and the amendments and supplements thereto I sold to PAM INVESTORS

whose address is 127 B, WASHINGTON AVENUE, BERGENFIELD, NJ 07621

for Two Thousand Nine Hundred Fifty Eight dollars and Ninety cents, the land in said taxing district described as Block No. 12 Lot No. 10 and known as 61 PATERSON AVE, on the tax duplicate thereof and assessed thereon to RATTO, A ETALS T/A TRIPLE A RE CO

THE AMOUNT OF THE SALE WAS MADE UP OF THE FOLLOWING ITEMS:

	AMOUNT	INTEREST	TOTAL
Taxes For: 2001			
Sewer Service charges	1374.91	1525.97	2900.88
Assessments For Improvements			
TOTAL COSTS OF SALE	58.02		58.02
TOTAL			2958.90
PREMIUM (IF ANY) PAID			

01 SEP 20 AM 10:00 37041

Subject is subject to redemption on repayment of the amount of sale, together with interest at the rate of 18.00 per centum per annum from the date of sale, and the costs incurred by the purchaser as defined by statute. The sale is subject to municipal charges accruing after June 30 '2001 ; municipal authority charges accruing after February 01 , 2000 and assessment installments not yet due, amounting to .00 Dollars and Interest thereon.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 25th day of June, 2001

STATE OF NEW JERSEY
COUNTY OF: HUDSON

SEAL

LOUIS P. PICARDO, COLLECTOR OF TAXES

BE IT REMEMBERED, that on this 25th day of June 2001 before me a NOTARY PUBLIC of New Jersey, personally appeared LOUIS P. PICARDO the Collector of Taxes of the taxing district of CITY OF HOBOKEN in the County of HUDSON who, I am satisfied, is the individual described herein, and who executed the above Certificate of Sale; and I having made known to him the contents thereof, he thereupon acknowledged to me that he signed, sealed and delivered the same as his voluntary act and deed, for the uses and purposes therein expressed.

Prepared By: LOUIS P. PICARDO, MANAGER

JAMES J. FORGIONE, NOTARY PUBLIC
Notary Public, State of New Jersey
My Commission Expires April 2, 2004

NOTE: NJSA 46:15-3 requires that all signatures appearing on the certificate, those of the Notary Public who takes this acknowledgement, and the purpose shall be printed, typed or stamped underneath such signature the name of the person that signed.

Pat Carabellese
127 So. Washington Ave.
Bergenfield, NJ 07621

R|R

BLCS Rev. 10/99

BK8298PG322

Order and Current Owner Information with Mortgages

Order Number: 278939-F Order Type: Searched Thru: 8 /20/2011

Order Name: MITA PATEL

Order Name: TANVI PATEL

Address: 59 PATERSON AVE Town: HOBOKEN County HUDSON State: NJ

Grantor: BANKERS TRUST COMPANY OF CALIFORNIA

Grantee: MITA PATEL
TANVI PATEL

Date of Deed: 3 /27/1998 Recorded: 8 /25/1998 Considerations: $94,900

Book 5327 Page: 264

Grantor:

Grantee:

Date of Deed: Recorded: Considerations: $0

Book Page:

Comments:

POA in 5327/262

Property Description

Lot: 11 Block: 12

Additional Information

☐ Tax Info ☐ Mortgages ☐ Sat PMM ☐ Judge Liens ☐ Lis Pen

☐ Prev Deed ☐ Ease Rest ☐ Estate ☐ Foreclosure ☐ UCC Check

Tot Value: $0 Land Value: $0 Improvement: $0

Year: 0 Taxes $0 ☐ Current

Mortgage Information

Mortgage Date: 2/1/2004 Mtg Recorded: 1/21/2005 Mtg Amt $975

Mortgagee 1: PAM INVESTORS

☐ Open Ended

Mtg Book: 12347 Mtg Page: 272

☐ Assigned

☐ Agreement

Assignee:

Asn Book: Asn Page Asn Date Asn Recorded

Signed: TAX SALE CERTIFICATE

Mortgage Date: Mtg Recorded: Mtg Amt: $0

Mortgagee 2:

☐ Open Ended

Mtg Book: Mtg Page

☐ Assigned

☐ Agreement

Assignee:

Asn Book: Asn Page Asn Date Asn Recorded

Signed

Mortgage Date: Mtg Recorded: Mtg Amt: $0

Mortgagee 3:

☐ Open Ended

Mtg Book Mtg Page

☐ Assigned

☐ Agreement

Assignee

Asn Book: Asn Page Asn Date Asn Recorded

Signed

3041

008747

98 AUG 25 AM 11:42

RECEIVED AND RECORDED

Deed

HUDSON COUNTY
RESISTER'S OFFICE

PREPARED BY: ANDREW P. ZACHARDA, ESQ.

This Deed is made on March 27, 1998,

Between: BANKERS TRUST COMPANY OF CALIFORNIA, NA, AS CUSTODIAN OR TRUSTEE, having an address at c/o Advanta Mortgage Corp. USA, 16785 West Bernardo, San Diego, CA 92127, hereinafter referred to as the "GRANTOR"

And MITA PATEL and
TANVI PATEL
hereafter referred as the "GRANTEE", about to reside at 59 PATERSON AVENUE, HOBOKEN, New Jersey

The GRANTOR grants and conveys the property described below to the GRANTEE. This transfer is made for the sum of $ 94,800.00 consideration, receipt of which is hereby acknowledged by the GRANTOR.

(N.J.S.A. 46:15-1.1) - Municipality of HOBOKEN Block No. 12 Lot No. 11

PROPERTY: The property consists of the land and all the buildings and structures on the land in the municipality of HOBOKEN County of HUDSON and State of New Jersey more particularly described as follows:

SEE SCHEDULE A ATTACHED HERETO AND MADE A PART HEREOF. BEING the same premises conveyed to the Grantor herein by Deed of Joseph T. Cassidy, Sheriff of the County of Hudson and intended to be recorded simultaneously herewith.
The street address of the property is: 59 PATERSON AVENUE, HOBOKEN, New Jersey.

PROMISES BY THE GRANTOR: The GRANTOR promises that the GRANTOR has done no act to encumber the property. This promise is called a "covenant as to grantor's acts" (N.J.S.A. 46:4-6). This promise means that the GRANTOR has not allowed anyone else to obtain any legal rights which affect the property.

SIGNATURES The GRANTOR signs this DEED as of the date at the top of this first page.

Attest

A COPY OF THIS HAS BEEN SENT TO ASSESSOR

BY ADVANTA MORTGAGE CORP. USA, AS ATTORNEY-IN-FACT

Larry Baldwin
(Print name and title)
LARRY BALDWIN, ASST. SECRETARY

BY: Nancy Schaefer
(Print name and title)
NANCY SCHAEFER, VICE PRESIDENT

STATE OF California
COUNTY OF San Diego | SS

I CERTIFY that on March 27, 1998 (Date),
Larry Baldwin (Name of Attesting officer) and Nancy Schaefer (Name of signing officer)
personally came before me and stated to my satisfaction that this person (or if more than one, each person):
(a) were the makers of the attached Deed;
(b) were authorized to and did execute this Deed as
Assistant Secretary (Title of Attesting officer) and Vice President (Title of signing officer)
of the entity named in this Deed;
(c) made this Deed for $ 94,800.00 as the full and actual consideration paid or to be paid for the transfer of title (Such consideration is defined in N.J.S.A. 46:15-5.1); and
(d) executed this Deed as the act of the entity.

RECORD AND RETURN TO:
VINCENT E. SABATO, ESQ.
268 NEWARK AVE.
JERSEY CITYL, N.J. 07302

Suzanne K. Lemire
(print name and title of notary below signature)
Suzanne K. Lemire

SUZANNE K. LEMIRE
COMM. #1111120
NOTARY PUBLIC-CALIFORNIA
SAN DIEGO COUNTY
My Commission Expires
SEPTEMBER 12, 2000

Consideration : $ 94998.00 Exempt Code: S

County	State	N.P.N.R.F	Total
95.10	237.48	8.00	332.58

fee3 Date: 08/25/1998

BK5327PG264

SCHEDULE B

More particularly described as follows:

LEGAL DESCRIPTION

ALL that certain lot, tract, or parcel of land, situate, lying and being in the City of Hoboken, County of Hudson, and State of New Jersey, as more particularly described as follows:

BEGINNING at a point in the Southwesterly line of Paterson Avenue distant Northwesterly 131.67 feet from the intersection of the Southwesterly line of Paterson Avenue with the Westerly line of Jackson Street and running; thence

(1) South 09 degrees 25 minutes 24 seconds West, 67.67 feet to a point; thence

(2) North 80 degrees 34 minutes 36 seconds West, 25.00 feet to a point; thence

(3) North 09 degrees 25 minutes 24 seconds East, a distance of 89.08 feet to a point in the Southwesterly line of Paterson Avenue; thence

(4) Along the Southwesterly line of Paterson Avenue, South 40 degrees 00 minutes East, 32.92 feet to the point and place of BEGINNING.

KNOWN AND DESIGNATED as Lot 11 in Block 12 as set forth on a certain map entitled, "Map of the Estate of John G. Coster, deceased", situate in the City of Hoboken, County of Hudson, and State of New Jersey, which map was filed in the Hudson County Clerk's Office on August 6, 1862 as Map No. 846.

The above description is drawn in accordance with a survey prepared by Thomas M. Ernst & Assoc. L.S. dated April 21, 1998.

KNOWN AND DESIGNATED as Lot 11 in Block 12 on the Tax Map of the City of Hoboken.

A COPY OF THIS DEED
HAS BEEN SENT TO ASSESSORS OFFICE

STATE OF ~~NEW JERSEY~~ NEW YORK, COUNTY OF ~~HUDSON~~ NEW YORK

I CERTIFY THAT ON MAY 8TH, 1998, MITA PATEL PERSONALLY CAME BEFORE ME AND ACKNOWLEDGED UNDER OATH, TO MY SATISFACTION, THAT SHE IS THE PERSON NAMED IN AND WHO SIGNED THIS DOCUMENT AND SIGNED, SEALED AND DELIVERED THIS DOCUMENT AS HER ACT AND DEED, AND DESIRED THE SAME MIGHT BE RECORDED AS SUCH.

Roberta Blair

NOTARY PUBLIC
STATE OF NEW ~~JERSEY~~ YORK
MY COMMISSION EXPIRES [illegible]

(SEAL)

STATE OF ~~NEW JERSEY~~ NEW YORK, COUNTY OF ~~HUDSON~~ NEW YORK

I CERTIFY THAT ON MAY 8TH, 1998, TANVI PATEL PERSONALLY CAME BEFORE ME AND ACKNOWLEDGED UNDER OATH, TO MY SATISFACTION, THAT SHE IS THE PERSON NAMED IN AND WHO SIGNED THIS DOCUMENT AND SIGNED, SEALED AND DELIVERED THIS DOCUMENT AS HER ACT AND DEED, AND DESIRED THE SAME MIGHT BE RECORDED AS SUCH.

#17

Roberta Blair

NOTARY PUBLIC
STATE OF NEW ~~JERSEY~~ YORK
MY COMMISSION EXPIRES [illegible]

[SEAL]

RECORD AND RETURN TO
VINCENT E. SABATO, ESQ.
264 NEWARK AVE.
JERSEY CITY, N.J. 07302-2633

Block 12 Lot 15 64 Jackson St

Unity Environmental Corp
Unity Educational Systems Inc

12/4/89 TO

✓ 4247-165
4225-271
✓ 4428-66 BL 740
✓ 7273-321 BL 742
8139-277 BL 751

✓ 11412-65 BL 742
✓ 11412-70 BL 797
175-28-684 " "
4792-263 Sat 4-22-04
6320-1 ϕ 3-24-98
7642-247 35 Hope St

NJMG

Promises by Grantor. The Grantor promises that the Grantor has done no act to encumber the property. This promise is called a "covenant as to grantor's acts" (N.J.S.A. 46:4-6). This promise means that the Grantor has not allowed anyone else to obtain any legal rights which affect the property (such as by making a mortgage or allowing a judgment to be entered against the Grantor).

Signatures. The Grantor signs this Deed as of the date at the top of the first page

Witnessed by:

Aristides F. Hernández
ARISTIDES F. HERNANDEZ, ESQ.

Nicolas Valdez .....(Seal)
NICOLAS VALDEZ

Brunilda Valdez .....(Seal)
BRUNILDA VALDEZ

STATE OF NEW JERSEY, COUNTY OF HUDSON SS.:

I CERTIFY that on December 5 , 19 89 ,

NICOLAS & BRUNILDA VALDEZ personally came before me and acknowledged under oath, to my satisfaction, that this person (or if more than one, each person):

(a) is named in and personally signed this Deed: they
(b) signed, sealed and delivered this Deed as his or her act and deed; and
(c) made this Deed for $ 285,000.00 as the full and actual consideration paid or to be paid for the transfer of title. (Such consideration is defined in N.J.S.A. 46:15-5.)

Aristides F. Hernández
(Print name and title below signature)
ARISTIDES F. HERNANDEZ, ESQ.
ATTORNEY AT LAW
STATE OF NEW JERSEY

BK4247PG166

~~BK4225~~BK272

103—DEED - BARGAIN AND SALE (Covenant as to Grantor's Acts)
IND. TO IND. OR CORP. — Plain Language
0 V8 -1

Copyright © 1982 By ALL-STATE LEGAL SUPPLY CO.
One Commerce Drive, Cranford, N.J. 07016

009622

DEED

Prepared by: (Print signer's name below signature)
Aristides F. Hernandez
ARISTIDES F. HERNANDEZ, ESQ.

This Deed is made on December 5, 19 89,

BETWEEN

NICOLAS & BRUNILDA VALDEZ

ASSESSOR'S COPY

whose address is

referred to as the Grantor,

AND

UNITY ENVIRONMENTAL CORP., a New York corporation authorized to do business in the State of New Jersey,

whose post office address is 511 Canal Street, New York, New York 10013
referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of

The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of Hoboken
Block No. 12 Lot No. 15 Account No.

☐ No property tax identification number is available on the date of this deed. (Check box if applicable.)

Property. The property consists of the land and all the buildings and structures on the land in the City of Hoboken
County of Hudson and State of New Jersey. The legal description is:

BEGINNING at a point in the Northwesterly sideline of Jackson Street distant 32.0 feet Westerly from the intersection with the Southwesterly sideline of Paterson Avenue and proceeding thence; (1) South 33 degrees 00 minutes West along said Northwesterly sideline of Jackson Street, 25.00 feet to a point, thence (2) North 57 degrees 00 minutes West 50.00 feet to a point, thence (3) North 33 degrees 00 minutes East 25.00 feet to a point, thence (3) South 57 degrees 00 minutes East 50.00 feet to a point, on the Northwesterly sideline of Jackson Street and the point or place of BEGINNING.

BEING more commonly known as 64 Jackson Street, Hoboken, New Jersey.

BEING known as Lot 15 in Block 12 on the Official Tax Map of the City of Hoboken, New Jersey.

Consideration $ 255,000.00 R.F. 1,200.00
Realty Transfer Fee 2,002.50 Rec. 22.00
Add'l. Fee 2,002.50
Add'l. R.O.D.
By: Total $ 1,200.00 Ind. Rec. 1,200.00

BK4225PG271

RECEIVED
1989 DEC -7 PM 12:28
HUDSON COUNTY
REGISTER OF DEEDS

DEED

Dated: December 5, 19 89

NICOLAS & BRUNILDA VALDEZ

Grantor,

TO

UNITY ENVIRONMENTAL CORP.

Grantee,

Record and return to:

ARISTIDES F. HERNANDEZ, ESQ.
410 - 60th Street
West New York, New Jersey
07093

EUGENE P. O'DONNELL ESQ.
544-548 SUMMIT AVENUE
JERSEY CITY, NEW JERSEY 07306

BK 4225 BK 273

APPENDIX N

Glossary of Terms

GLOSSARY OF TERMS

Aerial Photographs	Photographs taken from an airplane, helicopter or satellite (from a low enough altitude to allow identification of development and activities) of areas encompassing the *property*. Aerial photographs are often available from government agencies or private collections unique to a local area.
Asbestos	Six naturally occurring fibrous minerals found in certain types of rock formations. Of the six, the minerals chrysotile, amosite and crocidolite have been most commonly used in building products. When mined and processed, asbestos is typically separated into very thin fibers. Because asbestos is strong, incombustible, and corrosion-resistant, asbestos was used in many commercial products beginning early in this century and peaking in the period from World War II into the 1970's. When inhaled in sufficient quantities, asbestos fibers can cause serious health problems.
Asbestos Containing Material (ACM)	Any material or product that contains more than one percent asbestos.
Building Department Records	Those records of the local government in which the *property* is located indicating permission of the local government to construct, alter or demolish improvements on the *property*. Often building department records are located in the building department of a municipality or county.
Commercial Real Estate	Any real *property* except a dwelling or property with no more than four dwelling units exclusively for residential use (except that a dwelling or property with no more than four dwelling units exclusively for residential use is included in this term when it has a commercial function, as in the building of such dwellings for profit). This term includes but is not limited to undeveloped real property and real property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential purposes that has more than four residential dwelling units; and property with no more than four dwelling units for residential use when it has a commercial function, as in the building of such dwellings for profit.
Commercial Real Estate Transaction	A transfer of title to or possession of real property or receipt of a security interest in real property, except that it does not include transfer of title to or possession Transaction of real property or the receipt of a security interest in real property with respect to an individual dwelling or building containing fewer than five dwelling units, nor does it include the purchase of a lot or lots to construct a dwelling for occupancy by a purchaser, but a commercial real estate transaction does include real property purchased or leased by persons or entities in the business of building or developing dwelling units.

GLOSSARY OF TERMS
(continued)

Construction Debris	Concrete, brick, asphalt and other such building materials discarded in the construction of a building or other improvement to property.
Contaminated Public Wells	Public wells used for drinking water that have been designated by a government entity as contaminated by toxic substances, or as having water unsafe to drink without treatment.
Demolition Debris	Concrete, brick, asphalt and other such building materials discarded in the demolition of a building or other improvement to property.
Drum	A container (typically, but not necessarily, holding 55 gal (208 L) of liquid that may be used to store hazardous substances or petroleum products.
Dry Wells	Underground areas where soil has been removed and replaced with pea gravel, coarse sand, or large rocks. Dry wells are used for drainage, to control storm runoff, for the collection of spilled liquids (intentional and non-intentional) and wastewater disposal (often illegal).
Due Diligence	The process of inquiring into the environmental characteristics of a parcel of commercial real estate or other conditions, usually in connection with a commercial real estate transaction. The degree and kind of due diligence vary for different properties and differing purposes.
Dwelling	Structure or portion thereof used for residential habitation.
Environmental Site Assessment	The process by which a person or entity seeks to determine if a particular parcel of real property (including improvements) is subject to recognized environmental conditions. At the option of the user, an environmental site assessment may include more inquiry than that constituting appropriate inquiry.
Fill Dirt	Dirt, soil or other earth that is obtained off-site, that is used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real property. It does not include material that is used in limited quantities for normal landscaping activities.
Fire Insurance Maps	Maps produced for private fire insurance map companies that indicate uses of properties at specified dates and that encompass the property. These maps are often available at local libraries, historical societies, private resellers, or from the map companies who produce them.

GLOSSARY OF TERMS
(continued)

Hazardous Substance	A substance defined as a hazardous substance pursuant to CERCLA 42 USC §9601(14), as interpreted by EPA regulations and the courts: "(A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (42 USC § 6921) (but not including any waste the regulation of which under the Solid Waste Disposal Act (42 USC § 6901 et seq.) has been suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 USC § 7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator (of EPA) has taken action pursuant to section 2606 of Title 15. The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures or natural gas and such synthetic gas)."
Hazardous Waste	Any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (42 USC § 6921) (but not including any waste the regulation of which under the Solid Waste Disposal Act (42 USC § 6901 et seq.) has been suspended by Act of Congress). The Solid Waste Disposal Act of 1980 amended RCRA. RCRA defines a hazardous waste, in 42 USC § 6903, as: "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.
Hazardous Waste Site	Sites on which a release has occurred, or is suspected to have occurred, of any Contaminated Sites hazardous substance, hazardous waste, or petroleum products, and that release or suspected release has been reported to a government entity.

GLOSSARY OF TERMS
(continued)

Landfill	A place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term solid waste disposal site and is also known as a garbage dump, trash dump, or similar term.
Local Government Agencies	Those agencies of municipal or county government having jurisdiction over the property. Municipal and county government agencies include but are not limited to cities, parishes, townships, and similar entities.
LUST Sites	State lists of leaking underground storage tank sites. Section 9003 (h) of Subtitle I of RCRA gives EPA and states, under cooperative agreements with EPA, authority to clean up releases from UST systems or require owners and operators to do so.
Material Safety Data Sheet (MSDS)	Written or printed material concerning a hazardous substance which is prepared by chemical manufacturers, importers, and employers for hazardous chemicals pursuant to OSHA's Hazard Communication Standard, 29 CFR 1910.1200.
Owner	Generally the fee owner of record of the property.
Petroleum Exclusion	The exclusion from CERCLA liability provided in 42 USC § 9601(14), as interpreted by the courts and EPA: "the term (hazardous substance) does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas)."
Petroleum Products	Those substances included within the meaning of the petroleum exclusion to CERCLA, 42 USC § 9601(14), as interpreted by the courts and EPA, that is: petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under Subparagraphs (A) through (F) of 42 USC § 9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). (The word fraction refers to certain distillates of crude oil, including gasoline, kerosene, diesel oil, jet fuels, and fuel oil, pursuant to Standard Definitions of Petroleum Statistics.

GLOSSARY OF TERMS
(continued)

Physical Setting Resources	Sources that provide information about the geologic, hydrogeologic, hydrologic or topographic characteristics of a property.
Practically Reviewable	Information that is practically reviewable means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the property without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the property or a geographic area in which the property is located are not generally practically reviewable. Most databases of public records are practically reviewable if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally practically reviewable. For large databases with numerous facility records (such as RCRA hazardous waste generators and registered underground storage tanks), the records are not practically reviewable unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be practically reviewable. In other words, when so much data is generated that it cannot be feasibly reviewed for its impact on the property, it is not practically reviewable.
Pits, Ponds or Lagoons	Man-made or natural depressions in a ground surface that are likely to hold liquids or sludge containing hazardous substances or petroleum products. The likelihood of such liquids or sludge being present is determined by evidence of factors associated with the pit, pond or lagoon, including, but not limited to, discolored water, distressed vegetation, or the presence of an obvious wastewater discharge.
Property	The real property that is the subject of the environmental site assessment described in this practice. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.
Reasonably Ascertainable	For purposes of both Practice E 1527 and Practice E 1528, information that is (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable.

GLOSSARY OF TERMS
(continued)

Recorded Land Title Records	Records of fee ownership, leases, land contracts, easements, liens, and other encumbrances on or of the property recorded in the place where land title records are, by law or custom, recorded for the local jurisdiction in which the property is located. (Often such records are kept by a municipal or county recorder or clerk). Such records may be obtained from title companies or directly from the local government agency. Information about the title to the property that is recorded in a U.S. district court or any place other than where land title records are, by law or customs, recorded for the local jurisdiction in which the property is located, are not considered part of recorded land title records.
Site Reconnaissance	The site reconnaissance includes, but is not limited to, the site inspection done in connection with such a Phase I Environmental Site Assessment.
Site Inspection	The inspection of the property during which observations are made constituting the site reconnaissance section of Practice E 1527 and the site visit requirement of Practice E 1528.
Solid Waste Disposal Site	A place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term landfill and is also known as a garbage dump, trash dump, or similar term.
Solvent	A chemical compound that is capable of dissolving another substance and is itself a hazardous substance, used in a number of manufacturing/ industrial processes including but not limited to the manufacture of paints and coatings for industrial and household purposes, equipment clean-up, and surface degreasing in metal fabricating industries.
State Registered USTs	State lists of underground storage tanks required to be registered under Subtitle Section 9002 of RCRA.
Sump	A pit, cistern, cesspool, or similar receptacle where liquids drain, collect, or are stored.
Underground Storage Tank (UST)	Any tank, including underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface ground.
USGS 7.5 Minute Topographic Map	The map (if any) available from or produced by the United States Geological Survey, entitled "USGS 7.5 Minute Topographic Map," and showing the property.

GLOSSARY OF TERMS
(continued)

Wastewater	Water that (1) is or has been used in an industrial or manufacturing process, (2) conveys or has conveyed sewage, or (3) is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant. Wastewater does not include water originating on or passing through or adjacent to the site, such as stormwater flows, that has not been used in industrial or manufacturing processes, has not been combined with sewage, or is not directly related to manufacturing, processing, or raw materials storage areas at an industrial plant.
Zoning/Land Indicating Use Records	Those records of the local government in which the property is located the uses permitted by the local government in particular zones within its jurisdiction. The records may consist of maps and/or written records. They are often located in the planning department of a municipality or county.

This glossary was developed in accordance with the general terms presented and issued by the American Society for Testing and Materials.

N:\ENV\Boiler Plates\Phase I\ESA Glossary of Terms.doc

APPENDIX O

Terms & Conditions

TERMS & CONDITIONS

Boswell Engineering has completed a Preliminary Assessment (PA) of the subject property. The function of this report is to assist our client in identifying any deleterious environmental conditions or hazards requiring attention. The assessment was conducted to identify present or potential environmental areas of concern (AOC) resulting from activities on-site.

The purpose of this PA was to identify, through diligent inquiry, potential AOCs in accordance with the requirements of the New Jersey Department of Environmental Protection's (NJDEP), Technical Requirements for Site Remediation, N.J.A.C. 7:26E-3.1 & 3.2 (Technical Requirements). Diligent inquiry means conducting a search of all documents that are reasonably likely to contain information related to the object of the inquiry and making reasonable inquiries of current of former employees who may have knowledge of hazardous substances, hazardous wastes, or pollutants at a site.

The Technical Requirements define the term "AOC" as an existing or former location where hazardous substances, hazardous wastes, or pollutants are or were known to have been discharged, generated, manufactured, refined, transported, stored, handled, treated, disposed or where hazardous substances, hazardous wastes, or pollutants have or may have migrated.

Performance of the PA is intended to reduce, but not necessarily eliminate, uncertainty regarding the potential for AOCs in connection with the Property recognizing the reasonable limits of time and cost.

Limitations and Exceptions of Assessment

A PA **does not** include the following services:

A. Site Investigation (SI), Remedial Investigation (RI), soil and groundwater sampling laboratory analysis, etc.

B. Remedial Action Selection Report (RASR), Remedial Action Workplan (RAW), supervision of cleanup, etc.

C. Environmental Impact Statement (EIS).

D. Wetlands delineation, Letter of Interpretation (LOI), etc.

E. Surveys for asbestos containing material (ACM), lead based paint, radon, methane gas, lead in drinking water, industrial hygiene, biological agents and mold.

F. Underground storage tank (UST) integrity testing and removal.

H. Geophysical survey.

Limiting Conditions and Methodology Used

The scope of the environmental services included in this report are summarized as follows:

A. Perform a site reconnaissance of the subject property to ascertain any physically detectable environmental concerns.

B. Research and review reasonably ascertainable historical information and documents regarding the subject site in order to identify areas and/or items of potential environmental concern.

C. Compile a pertinent regulatory history of the subject site and of any on-site structures and/or facilities utilizing readily available State, County and local records.

D. Contact applicable regulatory agencies to determine if any environmental violations and/or enforcement actions have occurred on the subject site.

E. Present a determination regarding the present condition of the project site and, if necessary, offer recommendations for the next stage of assessment or site investigation.

The scope of our services consists of four (4) tasks:

A. **Records Review:** Obtain and review reasonably ascertainable historical information and documents that will help identify recognized environmental conditions in connection with the Property. This includes review of the following:

1. Currently available listings from Federal and State databases:

2. Aerial photographs.

3. U.S. Geologic Survey (USGS) Topographic Maps to obtain information concerning the Site and nearby property topography.

4. Industrial and City Directories.

5. Chain-of-title information, if available, to identify past owners/occupants of the Site whose names may suggest activities typically associated with the use, generation, storage and disposal of hazardous materials/waste.

6. Sanborn Fire Insurance Maps (Sanborn Maps).

7. Prior environmental records and reports.

8. NJDEP Geographic Information System (GIS).

B. **Site Reconnaissance:** Obtain information indicating the likelihood of AOCs in connection with the Property by visual and physical observation of the Site. A site reconnaissance survey identifies potential indicators of hazardous materials and/or wastes on the Site. The indicators may include, but are not limited to, 55-gallon drums, chemical containers, waste disposal areas, industrial facilities, discolored surface soils, electrical transformers potentially containing PCBs, underground storage tanks and areas conspicuously absent of vegetation. Storm and wastewater discharge points, as well as Site waste disposal operations are also identified.

It should be understood that a site reconnaissance is a visual survey only and **does not include** physical investigation such as soil excavation, concrete demolition and the movement of large or permanent objects. The information gathered during the reconnaissance is entirely dependent upon the conditions encountered during the survey.

C. **Interviews with Owners and Occupants:** Present and/or former owners and occupants will be asked written and/or oral questions concerning property usage. Responses to these questions may reveal information regarding the existence of pertinent documents. Additionally, any threatened, pending or past proceedings concerning the Property's environmental conditions may be uncovered.

D. **Interviews with Local Government Officials:** Written and/or oral questions will be asked of local agency officials, including, but not limited to, the local fire department, local and/or regional health agency, and local agencies having jurisdiction over hazardous waste disposal or other environmental matters. The responses to these questions may identify recognized environmental conditions in connection with the Property.

APPENDIX P

Qualifications

FRANK J. ROSSI
Environmental Science Department Head

EDUCATION:

MS, Chemical Engineering, New Jersey Institute of Technology
BS, Chemistry, Fairleigh Dickinson University

CERTIFICATIONS:

OSHA 40-Hour HAZWOPER & 8-Hour Annual Refresher
Confined Space Entry
AHERA Asbestos Inspector/Management Planner
EPA/HUD-Certified Lead Inspector
NJDEP Licensed for UST – Installation, Testing, Closure & Subsurface Evaluation

HIGHLIGHTS:

- Project Manager for the Preliminary Assessments of numerous several hundred-acre facilities.
- Extensive turn-key experience from PAs through a project's investigation and remediation.

RELEVANT EXPERIENCE:

Mr. Rossi has over 32-years of experience as a project manager/senior environmental/chemical engineer. He has a strong diverse background in chemical, civil and environmental engineering. Mr. Rossi also has extensive hands-on experience in all types of field applications, including but not limited to, **Preliminary Environmental Site Assessments**, Site Investigations underground storage tank (UST) removals and installations, remedial investigations/feasibility studies (RI/FS), in-situ remediation systems and groundwater fate and transport modeling.

His specific experience with **Preliminary Assessment (PA)** projects includes:

- Project manager for the **PA** of Greystone Psychiatric Hospital in Morris Plains New Jersey. Performed a through and detailed assessment of this 900-acre, 125-year old facility. Work included a thorough inspection of 50+ buildings, some currently in use and others abandoned for decades.

- Project manager for the **PA** of the proposed Pulte Homes Greenpark Village, a 700-unit active adult community in Wanaque, New Jersey. Performed a detailed PA of this 500-acre parcel containing a significant number of environmental constraints including, subsurface 18th century iron mines, USTs, wetlands and the adjacent former DuPont Gunpowder Works.

- Project manager for the **PA** of the Fairleigh Dickinson University, Rutherford, NJ campus. Prior to the property's sale, performed a detailed PA of this 11.5-acre college campus comprising 13 buildings housing offices, auditoriums, classrooms, laboratories, residence halls, etc.

- Project manager for the **PA** of Venezia's Auto Supply, an existing gasoline filling station/auto supply business operating continuously since 1920. The PA revealed the site contained at least 9 USTs over the years, a 40,000-gallon AST, and a floor drain system connected to a septic disposal field. Following completion of the PA prepared a detailed Site Investigation Workplan (SIW) addressing each of the environmental AOCs.

- Project manager for the **PA** of a former PSE&G vehicle maintenance garage in Pompton Lakes, NJ. Performed and prepared a comprehensive PA Report detailing such areas of environmental concern as undocumented USTs, in-ground hydraulic lifts, floor drains and a waste oil contaminated septic system.

- Project manager for the **PA** of a former gasoline filling station in Garfield, New Jersey. Through the analysis of historic Sanborn Fire Insurance Maps identified six (6) USTs remaining on the property since the station's closure in the late 1960s. Following the PA, performed the site's UST removal, site investigation and provided professional oversight during the facility's demolition.

BOSWELL ENGINEERING

CHRIS EDWARD ARNTZ, P.E.
Senior Environmental Project Engineer

EDUCATION:

MS, Geoenvironmental Engineering, New Jersey Institute of Technology
BS, Civil Engineering, New Jersey Institute of Technology
AS, Mathematics/AA, Liberal Arts, Raritan Valley Community College

PROFESSIONAL REGISTRATION:

Professional Engineer – New Jersey, New York, New Hampshire
Professional Planner – New Jersey
NJDEP Licensed Site Remediation Professional (LSRP)

CERTIFICATIONS:

OSHA 40-Hour HAZWOPER & 8-Hour Site Supervisor
AHERA Asbestos Inspector/Management Planner
NJDEP Licensed for UST – Installation, Testing, Closure and Subsurface Evaluation
Confined Space Entry

HIGHLIGHTS:

- Extensive due diligence experience with both real estate Phase I Environmental Site Assessments and NJDEP Preliminary Assessments.
- Prepared Preliminary Assessments for projects ranging in size from single-family residences to several hundred acres.

RELEVANT EXPERIENCE:

Mr. Arntz has over 18 years of diverse experience in civil and environmental engineering. He has performed numerous **Preliminary Assessments**, site/remedial investigations (SI/RI) and remediations in accordance with the NJDEP's Technical Requirements for Site Remediation. He has provided design, technical, logistical and administrative support at hazardous waste sites to both public and private clients and served as a Region II Technical Assistance Team (TAT) Group Leader to the U.S. Environmental Protection Agency's Superfund program.

His specific experience with **Preliminary Assessment (PA)** projects includes:

- Project engineer for the **PA** of Greystone Psychiatric Hospital in Morris Plains New Jersey. Performed a through and detailed assessment of this 900-acre, 125-year old facility. Work included a thorough inspection of over 50 buildings, some currently in use and others abandoned for decades. Many environmental areas of concern (AOC) were identified including numerous underground storage tanks (UST), 55-gallon drum and electrical transformer disposal areas and a forgotten manufactured gas plant (MGP). Following several weeks of fieldwork authored a comprehensive Phase I Report detailing the facility's AOCs.

- Project engineer for the **PA** of a former eyeglass frame manufacturer in Newark, NJ. Performed a comprehensive investigation in accordance with the NJDEP's Industrial Site Recovery Act (ISRA) identifying both documented and undocumented USTs, a former drainage system contaminated with chlorinated organic solvents, and floor drains whose integrity was compromised by acids spilled during the company's manufacturing processes.

- Project engineer for the **PA** of the Fairleigh Dickinson University, Rutherford, NJ campus. Prior to the property's sale, performed a detailed PA of this 11.5-acre college campus comprising 13 buildings including offices, auditoriums, classrooms, laboratories and residence halls.

- Project engineer for the **PA** and emergency remedial action at the Garden State Industrial Park warehouse complex in Wyckoff, NJ. Performed and authored a detailed PA report, identifying four (4) previously undocumented and leaking USTs using ground penetrating radar (GPR).

- Project engineer for the **PA** of the proposed Pulte Homes Greenpark Village, a 700-unit active adult community in Wanaque, New Jersey. Performed a detailed PA of this 500-acre parcel containing a significant number of environmental constraints including, subsurface iron mines, USTs, wetlands, and the adjacent former DuPont Gunpowder Works.

BOSWELL ENGINEERING

THOMAS J. O'NEILL
Senior Environmental Scientist

HIGHLIGHTS:

- Performed Preliminary Assessments for the USEPA's Superfund Program.
- Performed PAs as part of municipal property acquisitions under NJDEP's Green Acres Program.

EDUCATION:

BA, Environmental Science, William Paterson University

PROFESSIONAL REGISTRATION:

NJDEP Licensed Site Remediation Professional (LSRP)

CERTIFICATIONS:

USEPA Preliminary Assessment/Site Investigation (PA/SI) Training
OSHA 40-Hour HAZWOPER & 8-Hour Site Supervisor
Confined Space Entry
New Jersey Lead Inspector/Risk Assessor
AHERA Asbestos Inspector/Management Planner

RELEVANT EXPERIENCE:

Mr. O'Neill has over 25-years of experience in environmental science. As an Environmental Scientist for the US Environmental Protection Agency's Region II Superfund Technical Assessment and Response Team (START), Mr. O'Neill has participated in numerous **Preliminary Environmental Site Assessments**, site investigations, site remediations, and underground storage tank (UST) removals.

His specific experience with **Preliminary Assessment (PA)** projects includes:

- Prepared a **PA** for a former lighting manufacturer in accordance with the NJDEP's Industrial Site Recovery Act (ISRA) regulations. In addition to the review of Federal, State and local records, historical research was also conducted using chain of title information and MacRae's Industrial Directory. A Site Investigation (SI) was subsequently performed to investigate areas of environmental concern identified during the PA.

- Performed two (2) **PAs** of five (5) residential and two (2) commercial/industrial buildings for the Hackensack University Medical Center (HUMC). During the PA performed all necessary due diligence in accordance with the ASTM 1527-00 standards including, reviewing Sanborn Maps, aerial photographs, industrial directories and government records.

- Conducted a **PA** of an apartment building and attached warehouse in Jersey City, New Jersey. The property had been developed for over 100-years and was previously used by commercial, industrial and residential tenants. Boswell conducted a thorough review of federal, state and local records to obtain past tenant history and the location of former buildings on the site that had since been razed. Using the PA results proceeded with a Phase II investigation consisting of soil borings and groundwater sampling at several areas of concern.

- Performed a **PA** on three (3) contiguous commercial/residential properties in Palisades Park, New Jersey as part of due diligence prior to the property purchase. Conducted thorough research into the prior occupancy of multi-tenant commercial buildings and garages on the subject properties using Sanborn Maps, historic City Directories and interviews with local officials. Multiple information sources were used and corroborated in order to minimize gaps in tenant information.

- Conducted two (2) separate **PAs** for the Borough of Woodcliff Lake, New Jersey in order to obtain funding to purchase property through **New Jersey's Green Acres program**. In addition to the standard PA reporting, potential wetlands, threatened and endangered species, and environmentally sensitive areas on the subject properties were also evaluated.

BOSWELL
ENGINEERING

CHRIS COLABAUGH
Geologist

HIGHLIGHTS:

- Experience with both Phase I Environmental Site Assessments and NJDEP Preliminary Assessments.
- Prepared Preliminary Assessments and Site Investigations for private, municipal, and Industrial Site Recovery Act (ISRA) projects.

EDUCATION:

B.S., Geology, Kutztown University of Pennsylvania
A.S., Environmental Science, Raritan Valley Community College
A.S., Chemistry, Raritan Valley Community College

CERTIFICATIONS:

OSHA 40-Hour Hazardous Waste Site Operations
OSHA 10-Hour Construction Safety
NJ Transit Railway Safety Training

RELEVANT EXPERIENCE:

Mr. Colabaugh has over 1-year of experience as a geologist conducting environmental site remediations. He has participated in a variety of **Preliminary Site Assessments (PA), Environmental Assessments (EA), Site Investigations, and Phase I Environmental Site Assessments (ESA)** as well as remedial investigations, remedial actions, and receptor evaluations. He has also prepared several PA reports, EA reports, and Phase I ESA reports. Mr. Colabaugh also has over 3-years of experience with Geographic Information Systems (GIS) including subsurface topography mapping, shallow overburden and bedrock groundwater contour mapping, 1-mile radius well search mapping, preparing sensitive population maps, and data management.

His specific experience with **PA** and **SI** projects includes:

- Performed a Green Acres PA report and follow-up SI work for the Closter Swim Club in the Borough of Closter, NJ. PA work included records reviews of Sanborn Fire Insurance maps, historic topographic maps, historic aerial images, directory searches, and Open Public Records Request pursuant to NJDEP's Technical Requirements. The PA identified six (6) areas of concern and was able to eliminate all but three (3). The radius search discovered two (2) site remediation cases that may be impacting the on-site potable well. The historic aerial images suggest that prior to 1931 the site was at least partially used for agricultural farming and may be impacted by historic pesticide contamination. Future SI work will include collecting six (6) subsurface soil samples for pesticides, potable well sampling for VOCs, semi-volatile organic compounds (semi-VOCs), and pesticides. Boswell will also dye trace and video inspect the one (1) sump pump line from the pool's backwash pit before issuing the site a remedial action outcome (RAO) of no further action.

- Performed a Preliminary Assessment report for National Paper Envelope, a printing company, which through investigation of the McRAEs Industrial Directory, was determined to be Industrial Site Recovery Act (ISRA) applicable requiring a RAO of no further action prior to the sale of the property. The site contained an exhaust pipe that caused organic staining on the nearby asphalt pavement and a chemical storage room with a leaking roof. A limited investigation of the surficial soils to determine the impact of these two (2) separate source areas was recommended prior to the issuance of an RAO. Based upon these recommendations the subject property owner decided not to sell the property at this time.

- Prepared a Green Acres Environmental Assessment (EA) Report for the proposed changes to Harold Wall's Field in Rutherford. The EA is designed to inform Green Acres of the proposed improvements to the site including changes to the existing ball fields, installation of retaining walls, installation of new picnic tables and new parking lot, etc. as well as the existing site conditions, soil and sediment control measures. The report should discuss all possible potential environmental impacts resulting from the proposed changes so that Green Acres can determine if they will provide funding for the project.

- Prepared a Phase I ESA for an office building/parking garage complex in the City of Hackensack as part of the due diligence required of Bergen County prior to purchasing the property. The report identified one (1) potential AOC associated with the possibility of a former fuel oil tank used for heating the former residencies dwelling that appeared on the site prior to 1902 until approximately 1985. Based on the age of the construction of the building, it was determine that any Underground Storage Tank (UST) on the site would have been excavated and removed in order to prepare the site for the existing office building. Therefore, we were able to recommend no further action for the site.

APPENDIX Q

FirstSearch Technology Corp. – Radius Report

(Attached Separately)

APPENDIX B

North Hudson County Railroad Narrative

The Marker

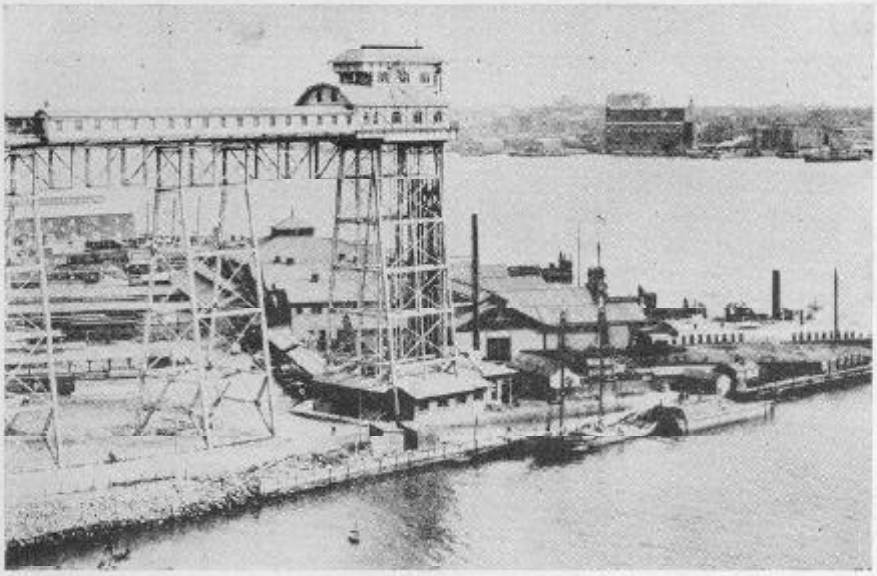
Volume 5, Number 2 September, 1946

The North Hudson County Railway

By

EDWARD T. FRANCIS AND GEORGE W. WALRATH

NORTH JERSEY CHAPTER



El Dorado Viaduct Hoboken Public Library

The viaduct and passenger elevators at West Shore Ferry, Weehawken terminel of the Guttenberg steam road.

The North Hudson County Railway

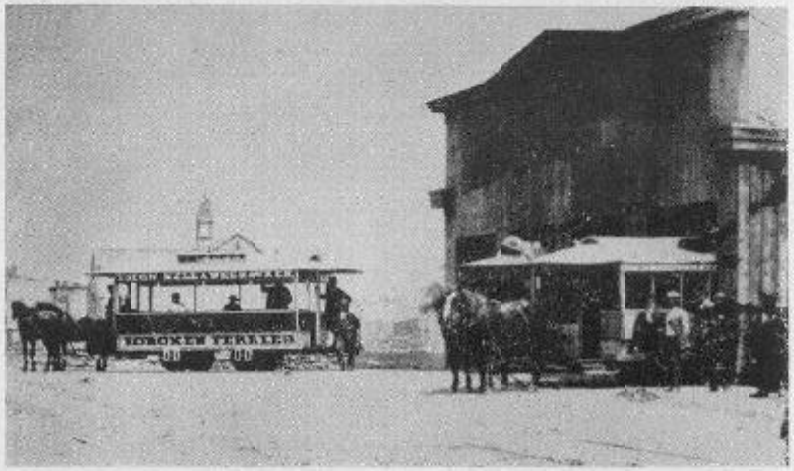
WERE it possible to turn back the pages of time to the golden era of the "Gay Nineties", 1892 to be exact, one would find in Hudson County, New Jersey, a railway system unique in the annals of history in that four methods of rail transportation were operated concurrently, namely: horse car, cable car, electric car, and steam railroad. Furthermore giant elevators were operated at West Shore Ferry, Weehawken, an engineering feat which was one of the marvels of the time but known to very few today.

Hoboken, New Jersey lies on the banks of the Hudson River opposite the lower part of New York City. The site of the city was purchased from the Indians by the Dutch in 1635. The area was farmlands until 1711 when Samuel Bayard, a New York merchant, built his residence there. As early as 1775 a ferry operated between Hoboken and New York. In 1784 John Stevens bought the property and laid it out as a town in 1804. The Elysian Fields of Hoboken was a famous pleasure resort of New York City for many years. Hoboken was incorporated as a town in 1849, and as a city in 1855.

In 1811 John Stevens built and operated his steam ferryboat "Juliana" on the Hudson River. In 1825 Stevens built and operated a steam locomotive on a circular track on his Hoboken estate.

In 1802 the Bergen Turnpike Co. was organized and the company built the Hackensack Plank Road from Hoboken to Hackensack. The Hoboken ferry landing became a center of transportation. Horse stages operated from the ferry to Jersey City, Hudson City, Weehawken, Union, and Hackensack.

The Morris and Essex Railroad (today the Delaware, Lackawanna and Western) was operated from Newark to Orange in November, 1836 but did not reach Hoboken until the '60s. 1860 saw the construction of Hoboken's first horse car railroad which developed into the network of electric street railways which once served North Hudson County.



At West Hoboken Stables, 1872
Horse cars of the Weehawken and West Hoboken lines at the stables in West Hoboken (now Union City)

The founding of the North Hudson County Railway and its progressive policies was the foresight of Mr. Nicholas Goelz who, in 1858, commenced the operation of a horse stage line from the Hoboken ferry to Union Hill (now Union City). The line prospered from the start and in 1860 the Hoboken and Weehawken Horse Car Ry. was organized with Mr. John H. Bonn, prominent real estate broker, as president; Mr. Jacob Schweitzer, wealthy brewer, treasurer; and Mr. Goelz as superintendent. Construction work began in August, 1860, and horse car operation started over this route in December, 1860.

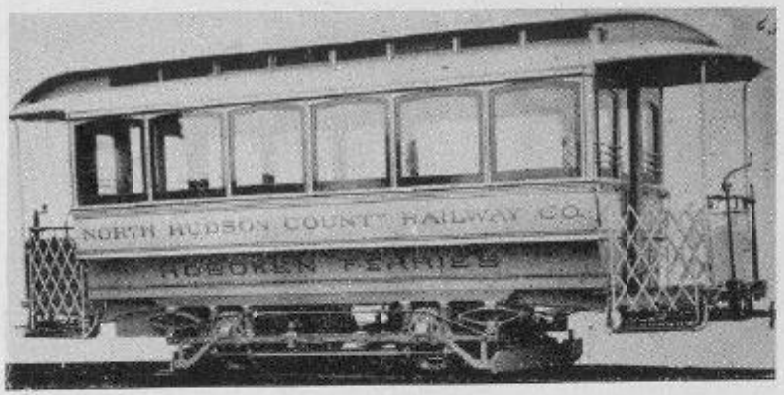
Hoboken's first horse railroad was the line of the Hoboken and Hudson City Horse R. R. Co. which received its charter on March 18, 1859 and built a line from the Hoboken ferry through Ferry Street and Hoboken Avenue to the "Five Corners" which was in intersection of Summit Ave., Newark Ave., and Hoboken Ave. in Hudson City (now Jersey City). Operation of the road commenced in February 1860.

The Jersey City and Hoboken Horse R. R. received its charter on March 25, 1859 and was authorized to build a line from the Jersey City ferry at the foot of Montgomery Street to the Hoboken ferry. The company built and operated a road through Ferry St., Hoboken and Grove St., Jersey City to Newark Avenue where passengers transferred to cars of the Jersey City and Bergen R. R. In 1870 cars ran to the ferry over J. C. & B. track.

The Hoboken and West Hoboken Horse Car R. R. was organized in 1861 and built a line from the connection with the Hoboken and Hudson City road in Hoboken Ave. over a steep grade road (now Ravine Road) to Palisade Ave. and north to West Hoboken (now part of Union City).

At the end of 1862 the Hudson City line had 5.32 miles of track and operated 7 cars. The Weehawken line had 5.05 miles of track, 2.5 miles under construction, and operated 8 cars. The West Hoboken line operated 5.30 miles of track with 8 cars.

On March 29, 1865 the state legislature authorized the sale of the Hoboken and West Hoboken Horse Car Railroad Co. and the Hoboken and Hudson City Horse R. R. to the Hoboken and Weehawken Horse Car R. R. to form the North Hudson County Railway Co. In 1870 Jersey City and Hoboken road was acquired.



N. H. C. No. 1 H. E. Johnston, Photo

One of the single truck cars built by J. G. Brill in 1892 for the Bulls Ferry Road line.

In the early '70s the owners of the railway system saw the necessity of improving operating conditions on the horse car lines to Hudson City and Jersey City Heights. To avoid the slow haul of cars with four horse teams up the road to the top of the Palisades they decided to build an elevator. Work started in July, 1874 and was finished November 21, 1874. The elevator, in the form of an incline plane, was 480 feet long with a grade of 1:4 and a vertical rise of 102 feet. Tracks were laid on timbers at a gage of 7 feet 10 inches. The horse cars were drawn upward upon two trucks of a strong wood framework. The upper platforms were level, while the lower portions were inclined to fit the slope of the rails. Two 40 horsepower steam engines were used to operate the cables which hauled the trucks, one of which ascended while the other descended the plane. The average time of raising a car with horses and passengers was one minute. The elevator cost about $80,000.00 and was built by the Dickson Manufacturing Co. of Scranton, Pa. After 1886 the elevators were no longer used to lift horse cars to the top of the hill, but continued as a wagon elevator and did not cease operation until May 1, 1928. At the turn of the century electric motors replaced the steam engines driving the cables.

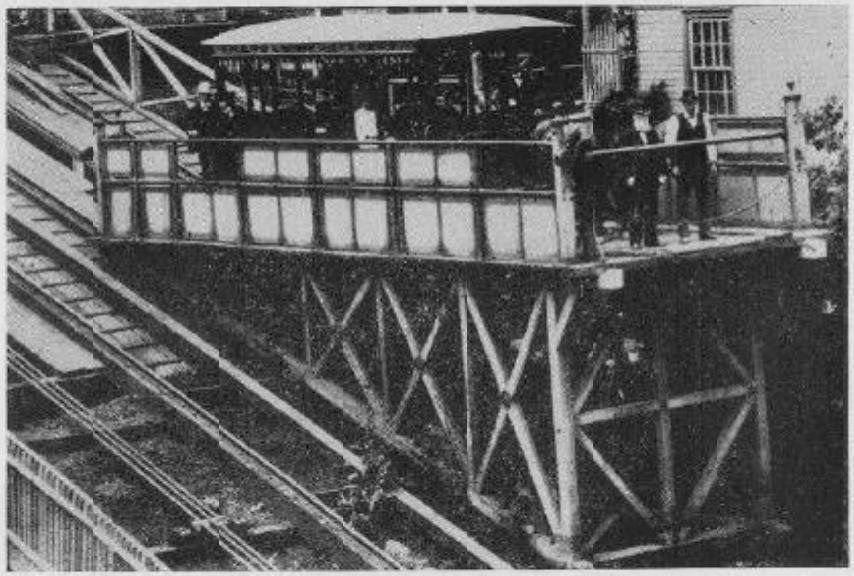
With the continued growth of Hudson County and the desire of the populace to have a faster means of transportation, the railway owners again demonstrated their foresight by the construction, in 1884-85, of an elevated cable road from the Hoboken ferry through Ferry St., Hoboken, to the top of the hill at Palisade Ave., Jersey City. A double track structure of wrought iron rolled by the Passaic Rolling Mills Co. was erected. The "Elevated Road" was approximately 1⅛ miles long with a maximum grade of 5½%. The cable machinery was built by Poole and Hunt of Baltimore; Watts-Campbell Co. of Newark built the two 500 horsepower steam engines which drove the cable machinery; and John Roebling made the 12000 feet of 1⅜ inch diameter wire cable.

J. G. Brill built 10 cars for the elevated road which were similar to New York elevated railroad cars and very handsomely fitted up. The cars arrived at Hoboken in the summer of 1885, and in October the first trial of the new road was made using car number 2. Regular passenger service began on January 25, 1886. On Sundays crowds of curious New Yorkers came to Hoboken to ride the new road which was a vast improvement over the horse cars which had used city streets and the elevator to reach the top of the hill.

On May 1, 1885 the Hoboken Ferry Co. commenced ferry service from 14th St., Hoboken. The North Hudson County extended their track in Washington St. north from 11th St. to 14th St. and along the north side of 14th St. on a private right of way to the ferry house.

In 1888 the North Hudson County purchased two steam locomotives for night service when the cable plant was shut down. Locomotives 1 and 2 were 0-4-0T "dummies" built by the Baldwin Locomotive Works, construction numbers 9434 and 9431 respectively. The locomotives were standard gage, with cylinders 12 inches diameter by 16 inches stroke, drivers 38 inches diameter, and weighed approximately 18 tons.

In 1889 the North Hudson County operated 25 miles of road with 122 horse cars, 650 horses, 14 cable cars, and two "dummy" locomotives.



The Wagon Elevator — Collection of W. A. Lucas

A horse car being lowered from Jersey City Heights to Hoboken. This incline plane operated until 1928 as a public wagon elevator.

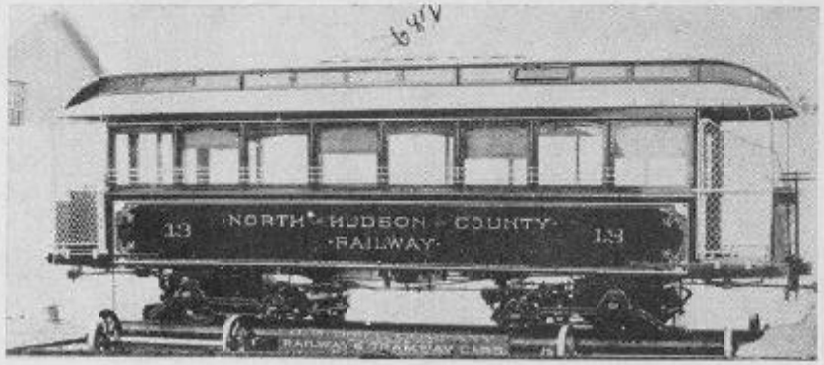
In 1890 the North Hudson County acquired control of the Pavonia Horse R. R. The Pavonia line had received a charter on April 4, 1867 and had built a line from Long Dock (the Erie terminal) out Pavonia Ave., Erie St., Monmouth St., 10th St., Hoboken Ave., and through St. Pauls Ave. to a point near the N. Y. Susquehanna and Western R. R. Cars turned into Seamen Ave. to a turntable where the "bobtail" cars were turned for the return trip. For many years the line was operated by the N. Y., Lake Erie and Western R. R. whose ferry supeintendent was also superintendent of the horse railroad. Jay Gould, famous railroad "tycoon", was once a president of the horse road. A branch line was built up Summit Ave. to Beacon St., and later to the Paterson Plank Road. Track in St. Pauls Ave. was abandoned and cars ran through Hoboken Ave. to the "Five Corners" and then north on Summit Ave. In 1890 the Pavonia line had 7 miles of track, 58 cars, and 175 horses.

In 1892 it was decided to extend the elevated structure from its terminus at Palisade Ave. to the Hudson County Court House at Newark Ave., Jersey City. Electricity was adopted as motive power on the new section of the "Elevated Road." The electric elevated line was opened without ceremony on June 19, 1892. It was deemed advisable to electrify the entire line to avoid the transfer of passengers to and from cable cars at Palisade Ave. station. In December, 1892 electric cars began operating from the Hoboken ferry to the Court House.

Fifteen double truck closed cars were built by J. G. Brill for this service. The new maroon cars had two Thompson-Houston 25 horsepower motors and Brill maximum traction trucks. An interesting feature was the use of two trolley poles one for each direction. The new cars were one of the first, if not the first, to have this feature which has become universal practice.

The electric road power station was in the old cable power plant at Palisade Ave. Three small steam engines drove generators which supplied the current to the elevated road. The cable plant engines were rebuilt and drove large generators after the abandonment of the cable system. The power station was closed about 1905 after the construction of the Palisade Ave. substation of the Public Service Electric Co.

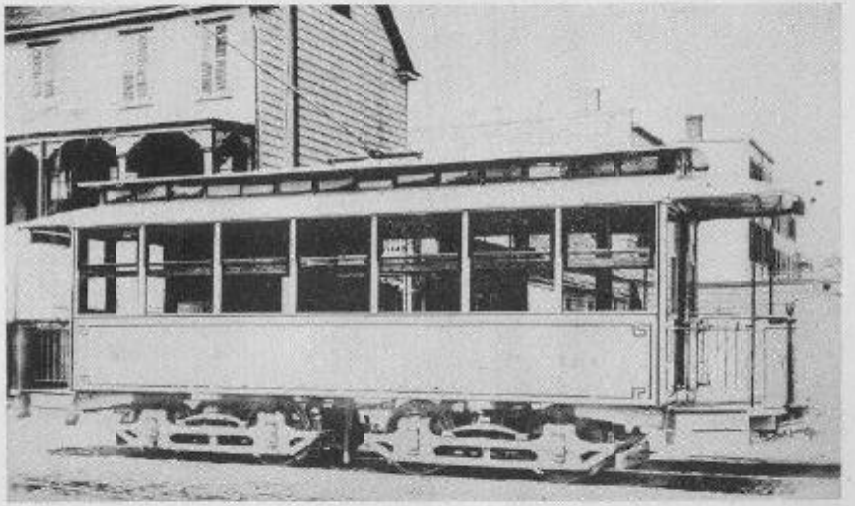
During the electrification of the elevated road, the North Hudson County officials were busy with a huge venture in the north end of the county. The giant elevators and viaduct were built at West Shore Ferry, Weehawken, and a steam railroad from the elevators to the Guttenberg race track which was located near the intersection known today as Bergenline Ave. and Hudson County Boulevard in North Bergen.



N. H. C. No. 3 — H. E. Johnston, Photo

J. G. Brill built 15 double truck cars in 1892 for the new electric elevated road.

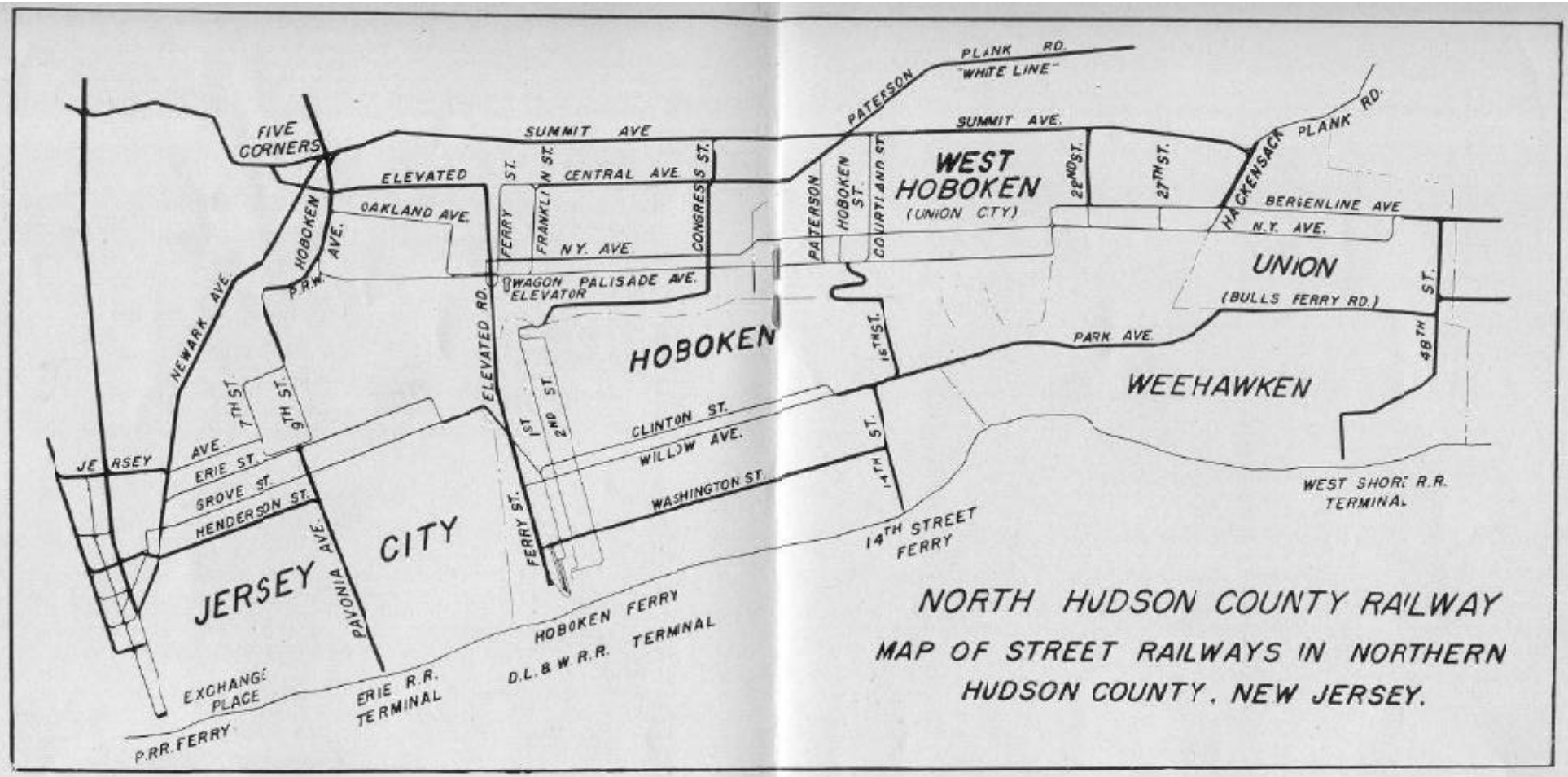
The North Hudson County contracted with the Passaic Rolling Mills Co. for the construction of the viaduct and elevator (shown on cover illustration) following the designs of Mr. Thomas E. Brown, Jr. of Otis Brothers and Co. The viaduct was 873 feet long from the river end to the abutment against the Palisades. The tower, 60 feet in width at its base and 14 feet at the top, rose to a heighth of 194 feet at the ridge of the station roof.



N. H. C. No. 180 — Courtesy of the Museum of the City of New York

Built by John Stephenson Co. in New York City. Cars 170-182 became P. S. Ry. 510-522

Otis Brothers and Co. built the elevator machinery which was hydraulically driven. The hydraulic cylinders had an internal diameter of 38 inches and were 35 feet long. The power plant was at the base of the elevator tower. The three elevator cars were built by Gilbert Car Co. at Troy, N. Y. They were constructed with a solid framework of hardwood, finished in mahogany, and measured 21 feet by 12 feet and 10 feet overall heighth. Each car could accommodate 120 passengers with a large number seated on willow chairs. The elevators were designed for a speed of 400 feet per minute, but operating speed was



Street railway lines in north Hudson County were the lines of the North Hudson County Ry., the Jersey City, Hoboken and Rutherford Electric Ry., and the Bergen Turnpike Co.

West Hoboken and the Town of Union are shown on the map. Both have been consolidated to form Union City.

PUBLIC SERVICE STREET RAILWAY LINES

Jackson (originally the "Court House" line) operates over the elevated line from Hoboken to Summit Ave. and Pavonia Ave., Jersey City, and then to Greenville over Jersey City & Bergen R. R. trackage.

Oakland Line operates over the Hoboken elevated line descending to the street at Palisade Ave. station, and then through Palisade Ave., Prospect St., Oakland Ave. to Hoboken Ave. Cars once ran through Hoboken Ave. to "Five Corners," and out Newark Ave. to a crossover at the Hackensack River. Return trip through Hoboken Ave. and Palisade Ave. to elevated road.

The Summit Line operates from Hoboken ferry to the Palisade station over the elevated road, and then via Central Ave. and Summit Ave. to Union City.

The Union City Line (until 1926 the "Union Hill" line) operates between Hoboken Ferry and West Shore ferry via Palisade Ave., and New York Ave., Bergenline Ave., 48th St., to West Shore terminal.

The Pavonia Line operated from Erie Terminal to Summit Ave. and Paterson Plank Rd. Replaced by busses July 10, 1938.

The Grove St. Line operated from Jersey City Ferry to Hoboken Ferry. Replaced by busses July 10, 1938.

The West New York line operated from Hoboken Ferry, through Willow Ave., Park Ave., 48th St., and Bergenline Ave. to the county line. Replaced by busses May 9, 1937. Cars also operated from 14th St. ferry via the "Hillside Road."

Palisade Line opented from West Shore Ferry to 48th S. and on private right of way north to Palisade Junction and Coytesville. Service ended Sept. 3, 1938.

Willow Line operated from Hoboken Ferry to 14th St. Ferry via Willow Ave. Service ended October 4, 1928.

Hudson Line opented from Exchange Place (P. R. R. ferry) via Newark Ave. to Five Corners and out Summit Ave. to Paterson Plank Rd. Replaced by busses February 5, 1931.

Bergen Line (Bergenpike) operated from 14th St. Ferry to Palisade Ave., Hackensack Plank Rd. through North Bergen, Fairview, Ridgefield, Ridgefield Park, Little Ferry, to Hackensack. Service north of Fairview ended April 25, 1926 and the remainder of the line on January 3, 1928.

The Crosstown Line between Erie Terminal and Communpaw Ave. and Pacific St., Jersey City, operated over Pavonia Ave track westbound to Jersey Ave., and eastbound from Henderson St. to the ferry. Service ended August 1, 1923.

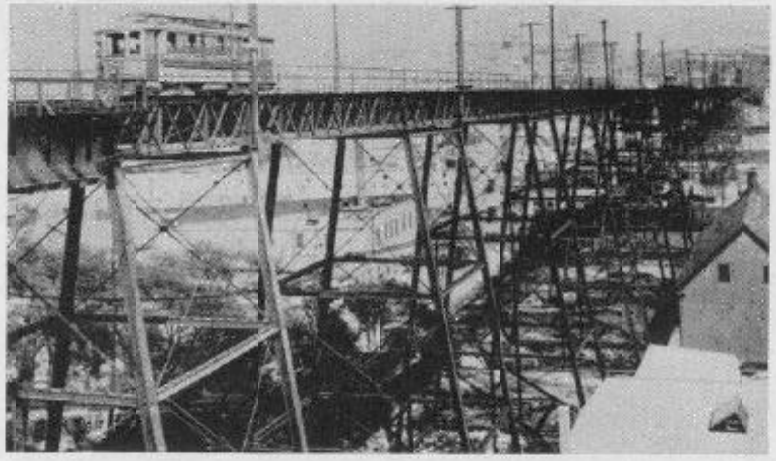
Washington Line operated from Hoboken Ferry through Washington St., Hoboken to 14th St. Ferry.

Fourteenth St. Line operated from the 14th St. Ferry over the "Hillside Road" to Bergenline Ave. and Hackensack Plank Rd., Union City.

Weehawken Line operated from Hoboken Ferry through Willow Ave., Park Ave. (Bulls Ferry Rd.), 48th St., to West Shore Ferry. Service ended May 9, 1937.

actually about half of this. Approximately 15 seconds was required for the ascent of 148 feet to the trains. Wide doors at each end of the car permitted speedy entrance and exit by passengers. The cars could be run independently of each other or all three could ascend or descend at the same time.

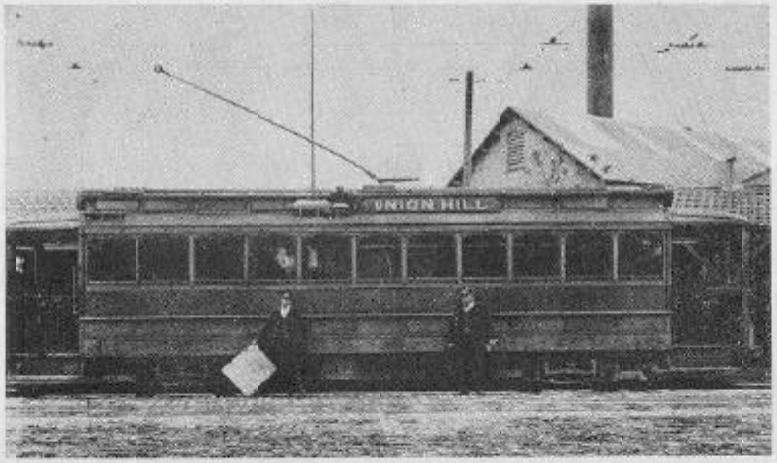
The Guttenberg "steam road" terminated at the elevators. Sidewalks were also provided for foot passengers.



The Hoboken Elevated Road

P. S. Ry. No. 1966 climbs the 5½ % grade of the Hoboken elevated road to Palisade Station.

At the brow of the Palisades where the viaduct met the bluff, a large amusement park called "El Dorado" had been built in 1891. The center of attraction was a huge open air theatre where the public saw great spectacles such as "Egypt Through the Centuries." Thousands of New Yorkers crossed the Hudson for a visit to "El Dorado". Ferries from Manhattan, Brooklyn, and Jersey City landed passengers at Weehawken.



At 14th Street Ferry

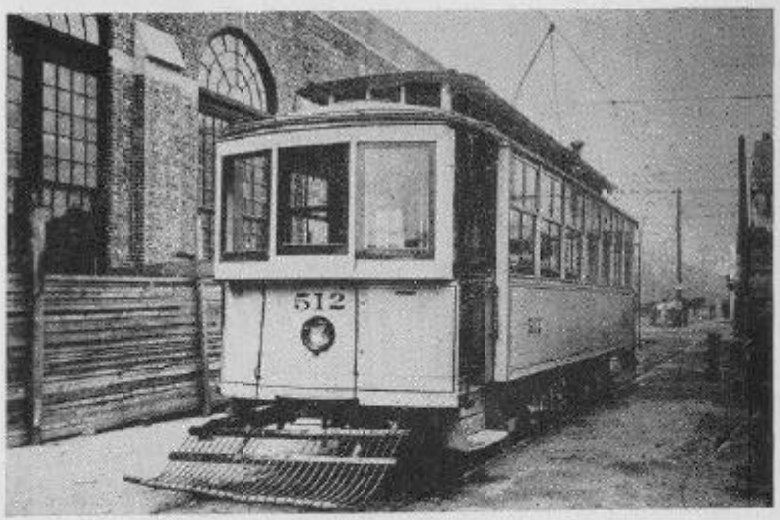
P. S. No. 1544 operated from 14th St. Ferry over the Hillside Road, Hoboken, 1915.

From "El Dorado", the steam road crossed Bulls Ferry Road and then turned north crossing 48th St. and continued north to Guttenberg over what was in more recent years the private right of way of the "Palisade" line of Public Service Ry.

The steam road to Guttenberg was built by the North Hudson County Ry. and service began on April 20, 1892 when the elevators were opened. Track was of substantial construction in conformity with the best practices of the time. Locomotives were built by H. K. Porter Co of Pittsburg and were the type known as Porter "end tank steam motors." In addition, the two Baldwin motors originally used at Hoboken on the elevated road were moved to the Guttenberg road in September, 1892. Twenty closed passenger cars were built for this service by the Gilbert Car Co. and were double truck similar in appearance to the Gilbert cars on the New York elevated lines except that steps were provided.

In 1892 the company electrified the existing horse car line on Bulls Ferry Road from the railroad crossing (Hoboken city line) north to El Dorado, this point now being Park Ave. and Liberty Place, Weehawken. Hoboken horse cars bound for El Dorado were pulled up the hill by electric cars. The new cars for the Bulls Ferry line were J. G. Brill single truck, 20 feet length, with Brill No. 21 trucks, and two 25 horsepower Thompson-Houston motors.

On February 20, 1893 the company petitioned the Board of Street and Water Commissioners of Jersey City for permission to electrify the track in the streets of Jersey City.



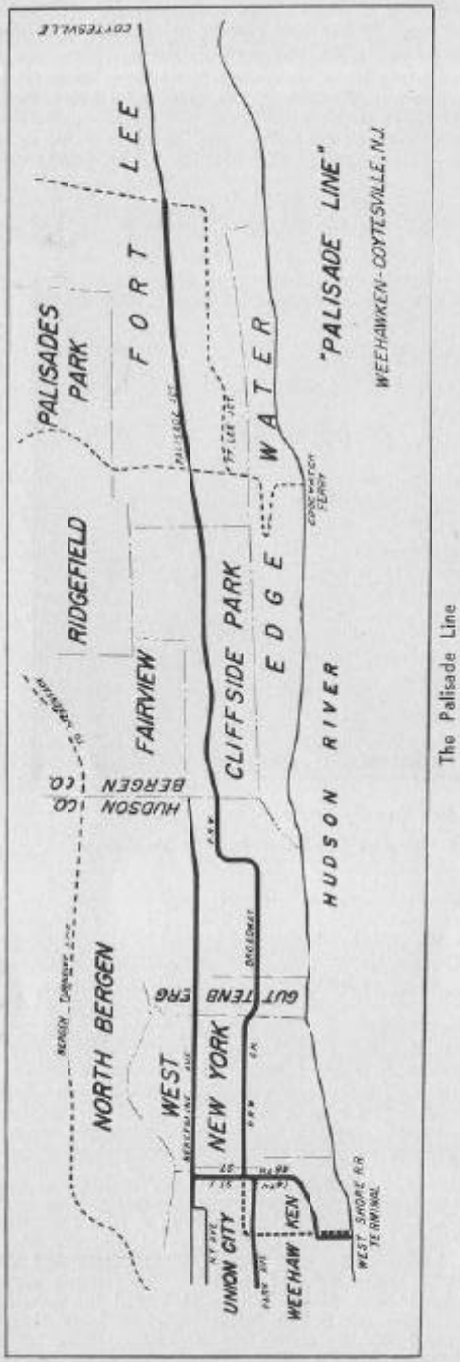
A North Hudson County Veteran

P. S. Ry. No. 512 (ex-174) at West Hoboken Car Barn. Built by Stephenson.

During the time the Guttenberg steam road was in operation the Palisade R. R. Co. surveyed and built a road from the county line at North Bergen north to Coytesville at Fort Lee. The Palisade road was incorporated as the Inglewood Horse Ry. in 1866, and in 1872 the name of the company was changed to Palisade R. R. Co. It was originally intended to be a steam railroad, but the road was completed as an overhead trolley road to Coytesville and service began on the line in August 1895. Car No. 195 carried the company officers to Coytesville to celebrate the opening of the line. Double truck monitor roof cars by John Stephenson Co. operated on the road. No. 180 is shown in illustration. Some of the Gilbert cars of the steam road were rebuilt for electric operation.

With the electrification of the Guttenberg steam road, a trolley road was built down the grade road (now Pershing Rd.) to the West Shore ferry. The operation of the elevators ceased, and the use of the old steam road track south of 4th St. (now 48th St) ended. In 1897 the viaduct and elevators were dismantled.

On November 19, 1893 the North Hudson County opened a new connecting line between Hoboken and the heights of North Hudson which was used by trolley cars from the 14th Street Ferry. The new line started at 15th St., Hoboken with a trestle parallel with the Palisades for a distance of 900 feet and then crossed branches of the New York Central and the Erie R. R. on a steel bridge. The road then gradually ascended the Palisades by a series of easy curves following the contour of the hill. The steepest grade on the 5600 feet of the new "Hillside Road" was 5½%. The road joined the existing system at Palisade Ave., and Hoboken St. (now 6th St.) in West Hoboken (now Union City). The "Hillside Road," because of one particular curve, was generally refered to by local citizens as the "Horseshoe." Cars of the Bergen Pike, Bergenline, Union Hill Summit, and Fourteenth lines of the Public Service Railway operated over this route. Service continued until 1928.



The Palisade Line
The original route of the Guttenberg Steam Road to West Shore Terminal over El Dorado Viaduct is shown in dotted line.

North Hudson County RAILWAY.

ONE FARE

BETWEEN

Court House,
North Bergen,
Pavonia Ferry,
Barclay St. Ferry,
Fourteenth St. Ferry,
Forty-second St. Ferry

—AND—

HOMESTEAD,

—ON—

Rutherford Road.

SPECIAL CARS

May be Chartered for

FLOWER HILL,
SCHUETZEN PARK,
FLORAL PARK,
HUDSON HEIGHTS,
EDGEWATER,
FORT LEE and
LINWOOD.

From The "Observer"
Hoboken, 1895

Power for the new "Hillside Road" was furnished by the Hudson Electric Light Co. power station at 15th and Bloomfield Streets, Hoboken. A 1400 horsepower vertical cross compound Philadelphia Corliss engine with cylinders 26 and 50 inches diameter by 54 inches stroke was installed to drive large General Electric Co. generators.

In 1894 the Jersey City, Hoboken and Rutherford Electric Railway opened its road from Hoboken to Carlstadt where the company joined the Paterson, Passaic and Rutherford line permitting a through trip to Paterson, 20 miles. The "Rutherford Road" became widely known as the "White Line." Eastbound cars entered Hoboken over First St., and westbound cars operated through Second St. and climbed the Palisades over the Paterson Plank Road to Congress St. and over Congress St. to Summit Ave. to the Paterson Plank Rd. This point is still known as the "Transfer Station." Passengers transferred between cars of the two roads permitting a ride for one fare between many points as shown in the newspaper advertisement reproduced elsewhere. Hobokenites had protested the construction of overhead trolley wires in the city and during the delay in opening the track in Hoboken the North Hudson County operated a horse car through Second St. The "White Line" became the "Passaic" line in 1914. Through service to Paterson ended June 30, 1934. Cars continued to operate from Hoboken to the Hackensack River bridge at Secaucus until June 15, 1936.

The Hillside Road — Collection of George Walrath

Two I. S. Ry. cars on the "Horseshoe Curve" of the Hillside Road from 15th St., Hoboken to the top of the Palisades

In April, 1896 the Bergen County Traction Co. opened its road from the Edgewater ferry to Leonia Heights, and reached Englewood in July, 1896. The road became part of the New Jersey and Hudson River Railway and Ferry Co. which built to Hackensack in 1901, and Paterson in 1903. The Hudson River line crossed the Palisade line of the North Hudson County Ry. at Palisades Junction and at Main St., Fort Lee. On April 4, 1905 a joint service between West Shore Ferry and Englewood began operation but after a short time was discontinued. The Hudson River system became part of Public Service Railway and was operated as the Bergen Division. The original road to Fort Lee was abandoned in 1927, and Bergen Division cars operated over the Palisade track between Palisade Junction and Main St., Fort Lee.

A work car of the North Hudson County was used as a locomotive on the Hoboken R. R., Warehouse and Steamship Connecting Co., "Hoboken Shore Road" from September 20, 1897 until the "Shore Road" received locomotive No. . from the General Electric Co. and put same in service on January 4, 1898.

At the turn of the century the North Hudson County Ry. had 52 miles of track of which 1 mile was still operated with horses. Equipment consisted of 20 horse cars, 130 motor cars, and 15 trailer cars. Receipts had reached the $1,000,000 mark in 1899.

On Nov. 1, 1899 the Jersey City, Hoboken and Paterson Street Railway Co. was organized as a consolidation of several roads in Passaic and Hudson counties. In August, 1901 the North Hudson County was merged with the J. C. H. & P. In 1903 the Public Service Corporation acquired control of the JCH&P system, and in 1907 it became part of the Public Service Railway.

In 1902 the Bergen Turnpike Co. built a single track trolley line, with turnouts, over their Hackensack Plank Rd. to Little Ferry and Hackensack. Because of several grade railroad crossings, cars did not run through to Hackensack without transfer. The "Bergen pike" cars operated from 14th St. Ferry over the "Hillside Road."

In a large part, the rapid growth of the northern part of Hudson County may be attributed to the foresight and perseverance of John H. Bonn, president of the North Hudson County and predecessor road from 1859 until his death in November 1891, and Mr. Nicholas Goelz, superintendent of the road for many years. These men and their associates, foreseeing the need of transportation, built the railway lines in advance of their needs. As Noith Hudson developed the railway lines were rebuilt and in some cases relocated.

The company's Hoboken elevated road is still in use today by cars of the Public Service Jackson Ave. line. Cars of the Oakland, Summit, and the Union City lines operate over the original section of the elevated road descending to the surface lines at Palisade Avenue station.

Since the last issue the following lines have totally abandoned trolley service:

Tampa Electric Co.	August 3, 1946
Aroostook Valley R. R.	August 7, 1946
Grafton & Upton	June 27, 1946
United Traction, Albany, N. Y.	September 1, 1946
Fairmount Park Transit, Philadelphia	September 9, 1946

The Aroostook Valley has continued passenger service with busses. Freight service by rail with diesel locomotives. This was the last eastern road using old wooden steam coach roof type combination cars.

THE MARKER

The following back issues of the Marker may be had for 20¢ (coin) each: Jersey Central Traction, The White Line, Allentown and Reading Traction, New Jersey and Pennsylvania Traction, Wallkill Transit and Port Jervis Traction, Morris County Traction in an enlarged edition, and the Point Pleasant Traction with a large map of New Jersey electric railways and a list of New Jersey roads with construction and abandonment dates. The Hagerstown and Frederick Ry. is a 12 page edition at 25¢ per copy. All issues well illustrated with maps and rosters in most cases. Other issues are not available. Write R. S. Wendeling, 114 Oakley Street, Roselle, N. J.

The next issue of the Marker will be published in December, and will feature a 12-page illustrated article on the Shore Line Electric Railway (Connecticut) by Ray E. Mermet, well known New England historian. Send 25¢ in coin to R. S. Wendeling for your copy.

Coming: The Monmouth County Electric Co.

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Street Railway Gazette
Railway Gazette
Engineering News
Electric World

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The authors wish to acknowledge the valuable assistance by the librarians of the public libraries at Hoboken, Jersey City and Newark, N. J., the Library of Stevens Institute of Technology, Engineer Societies Library, the Library of Congress, Mr. Paul Warner of the Baldwin Locomotive Works, and Mr. Edward Kirk, Chief of Police of Weehawken.

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ISSUED BY NORTH JERSEY CHAPTER

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APPENDIX C

Site Investigation Report (SIR), August 2012, Boswell McClave Engineering

SITE INVESTIGATION REPORT

FOR

Block 12, Lots 1-7, 9, and 11-18

City of Hoboken
Hudson County, New Jersey

NJDEP Program Interest No. 585028

Our File No. HO-458

Prepared By:

Frank J. Rossi, LSRP
Project Manager

Approved for Release By:

Stephen T. Boswell, Ph.D., P.E., LSRP
President, CEO

BOSWELL McCLAVE ENGINEERING
SOUTH HACKENSACK, NEW JERSEY

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

AUGUST 2012

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I. Area(s) of Concern, Receptor and Emergency Response Tracking	*Impacted Media*	*Contaminants of Concern*	*Exposure Route*	*Receptors*		*Current Status/Outcome*
				Existing	*Potential*	
AOC-1: Historic Fill	Potential Soil and Groundwater	Petroleum hydrocarbons, PAHs, Metals, and PCBs	Direct contact and groundwater migration	None	Limited amount of direct contact exposure in unpaved locations	**January 2012 Preliminary Assessment Report (PAR) -** In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants. Boswell McClave (Boswell) recommended collecting a minimum of four (4) soil samples and one (1) groundwater sample and analyzing for historic fill parameters if fill material is identified. **June 2012 Site Investigation Report (SIR) -** Soil contamination was encountered in the historic fill above the NJDEP's Residential Direct Contact Soil Remediation Standards (RDCSRS) at depths of up to 9.5' below ground surface (bgs), Boswell recommends institutional (deed notice) and engineering (capping) controls. The groundwater contamination can be addressed through the implementation of a Classification Exception Area (CEA).

I. Area(s) of Concern, Receptor and Emergency Response Tracking	*Impacted Media*	*Contaminants of Concern*	*Exposure Route*	*Receptors*		*Current Status/Outcome*
				Existing	*Potential*	
AOC-2: Potential USTs	Potential Soil and Groundwater	Petroleum hydrocarbons and lead	Groundwater migration	None	None	**January 2012 PAR -** According to aerial imagery and Sanborn Fire Insurance Maps the various properties have been developed and modified throughout the last 100-years. Some of the former structures may have utilized heating oil stored in underground storage tanks (UST). Boswell recommends a geophysical survey of the subject properties to confirm the presence/absence of USTs or other subsurface anomalies. If any USTs are identified they should be investigated/removed in accordance with the NJDEP's Technical Requirements. **June 2102 SIR -** No subsurface anomalies exhibited "UST-like" signatures and the geophysical contractor concluded that there were no abandoned or forgotten tanks on the property. Based upon the geophysical survey results, the absence of visually identifiable petroleum contamination in the soil borings, Boswell recommends no further investigation of AOC-2.
AOC-3: Off-Site Former UST Releases	Potentially Groundwater	Gasoline and Fuel Oil	Groundwater Migration	None	None	**January 2012 PAR -** The First Search radius report identified the presence of off-site UST releases of gasoline and fuel oil nearby the subject properties. Based on the age of the releases (~10 years ago), the potential contaminants have a low possibility of impacting the site. Moreover, it is the obligation of the responsible party (RP) to address contamination migrating from their site. **June 2102 SIR -** The temporary well point groundwater sample did not detect any targeted contaminants above the NJDEP GQC or Vapor Intrusion Groundwater Screening Level. Therefore, there is no evidence that the site's groundwater has been impacted by previous off-site UST releases.

1.0 INTRODUCTION

Boswell McClave Engineering (Boswell) has completed this Site Investigation Report (SIR) for the City of Hoboken (the City). This SIR, prepared in accordance with the New Jersey Department of Environmental Protection (NJDEP) *Technical Requirements for Site Remediation*, N.J.A.C. 7:26E et seq. (Technical Requirements) will address the site investigation (SI) conducted at:

- Block 12, Lots 1-6, 57-67 Harrison Street;
- Block 12, Lot 7, 69 Harrison Street;
- Block 12, Lot 9, 67-69 Paterson Avenue;
- Block 12, Lot 11, 59 Paterson Avenue;
- Block 12, Lot 12, 57 Paterson Avenue;
- Block 12, Lot 13, 55 Paterson Avenue;
- Block 12, Lot 14, 51-53 Paterson Avenue;
- Block 12, Lot 15, 64 Jackson Street; and,
- Block 12, Lots 16-18, Jackson Street,

Hoboken, New Jersey (hereinafter referred to as "the Properties" or "the Site"). The Applicable NJDEP Forms are included in ***Appendix A***, while Boswell's qualifications to prepare this SIR are included in ***Appendix L***.

1.1 Site Description

The properties lie in the City of Hoboken in eastern Hudson County, New Jersey. The Site includes 16 of the 18 parcels that comprise Block 12.

The majority of the subject properties (Lots 1-7 and 13-18) are currently operated by Desbroses Garage Corp., Ponte Equities, Inc., and Unity Environmental as a private asphalt-paved parking lot.

The City of Hoboken owns Lot 9 which is an undeveloped property having a cobblestone road at its southern end.

Lot 11 is owned by Mita & Tanvi Patel and is a two (2) family residential dwelling.

Lot 12 is a vacant undeveloped property.

The total size of the subject properties is approximately 0.91-acres. Maps depicting the subject property's location are included in ***Appendix B***.

1.2 Site History

The following section presents a brief site history; please refer to Boswell's January 2012 Preliminary Assessment Report (PAR) report for a more detailed discussion of the property's history.

Based on Sanborn Maps, historic aerial photographs and the chain-of-title, prior to the Site's current uses, the southern portion of the properties contained footings for the North Hudson County Railroad's elevated trolley line. The north portion of the Site has been developed with various apartments and residential dwellings that included garages, a smokehouse and storage over the past 100-years.

1.3 Overview and Purpose of Site Investigation

Boswell's PAR identified the following three (3) potential environmental areas of concern (AOC) as depicted in ***Figure 1*** and provided recommendations for additional investigation as follows:

- **AOC-1: Historic Fill** – In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants.

  Boswell recommended collecting a minimum of four (4) soil samples and one (1) groundwater sample to be analyzed for historic fill parameters if fill material was identified.

- **AOC-2: Potential UST** – The various properties have been developed and modified throughout the last 100-years according to aerial imagery and Sanborn Fire Insurance Maps. Some of the former structures may have utilized heating oil USTs.

  Boswell recommended a geophysical survey of the subject properties in order to confirm the presence/absence of USTs or other subsurface anomalies. If any USTs are located they should be investigated in accordance with the NJDEP's Technical Requirements.

- **AOC-3: Off-Site Former UST Releases** – The First Search radius report identified the presence of off-site UST releases of gasoline and fuel oil nearby the site. Based on the age of the releases (~10 years ago), the potential contaminants have a low possibility of impacting the site. Moreover, it is the obligation of the responsible party (RP) to address contamination migrating from their site, therefore Boswell recommended no further investigation.

Due to a change in the NJDEP's policy, it is no longer necessary to contact the State's Spill Hotline and receive a case number for historic fill sites. However, a Confirmed Discharge Notification Form must be submitted and a Licensed Site Remediation Professional (LSRP) be hired to investigate and remediate the site. Copies of these forms are included in ***Appendix A***.

1.4 Sequence of Site Investigation

The dates of the activities discussed in this SIR are as follows:

October 27, 2011 -	Preliminary Assessment Inspection;
January 2012	Preliminary Assessment Report;
May 14, 2012 -	Geophysical survey, soil boring sampling, and groundwater investigation of Lots 13-18; and,
May 17, 2012 -	Geophysical survey and soil boring sampling at Lots 1-7, 9, and 12.

2.0 GENERAL PHYSICAL SETTING

As referenced earlier, the Sites are located in the City of Hoboken, Hudson County, New Jersey ***(Appendix B)***.

2.1 Topography

The Sites are located in the Jersey City Quadrangle, New Jersey, United States Geological Survey (USGS) Topographic Map. The USGS Map depicts the property's topography at approximately 10' above mean sea level with no visible slope direction ***(Appendix C)***. On-site inspection determined that the subject properties slope very gently to the southeast.

2.2 Surface Water

There are no surface water bodies located on any of the subject properties. The nearest water body is a tributary to the Hudson River located approximately 1,800' southeast of the nearest property boundary. The tributary travels east approximately 1,900' before discharging into the Hudson River. The Hudson River is a tidal water body that empties into New York Bay before eventually outletting to the Atlantic Ocean.

The NJDEP Surface Water Quality Standards Report (N.J.A.C. 7:9B) classifies the Hudson River tributary as Freshwater-2 Non-Trout Saline Estuary 2 (FW2-NT/SE2) waters. Non-trout (NT) signifies fresh waters that are not designated as trout production or trout maintenance. These waters are generally not suitable for trout because of their physical, chemical, or biological characteristics, but are suitable for a wide variety of other species. This tributary of the Hudson River has been classified as a Saline Estuarine Category 2 stream (SE2) based on the NJDEP designated uses including: maintenance, migration and propagation of the natural and established biota; migration of diadromous fish; maintenance of wildlife; secondary contact recreation; and any other reasonable uses.

Additionally, no wetlands or environmentally sensitive areas were identified on the NJDEP's NJ-GeoWeb GIS program within 1,000' of the subject property.

2.3 Soil

The United States Department of Agriculture/Soil Conservation Service (USDA/SCS) Soil Survey Geological (SSURGO) Map is not available for Hudson County, however, the New Jersey Geological Survey (NJGS) Surficial Geology Map (2004) is included in ***Appendix D.*** Based on the NJGS data, the soil at the subject property and surrounding area are designated as Holocene Epoch Salt Marsh and Estuary Deposits (Qmm). The NJGS describes the Qmm as brown to dark brown, gray, or black silt, sand, peat, clay, and minor pebble gravel. The formation can be up to 300' thick in the Hudson River valley and 100' thick elsewhere. Qmm contains abundant organic matter; the soils were deposited in salt-marshes, estuaries,

and tidal channels during the Holocene sea level rise.

2.4 Geology

The geologic unit beneath the Sites is Triassic Period Stockton Formation (Trs) as shown in ***Appendix D***. The Stockton Formation is described by Kimmel (1897) as light-gray, light-grayish-brown, yellowish- to pinkish-gray, or violet-gray to reddish- brown, medium- to coarse-grained arkosic sandstone and reddish- to purplish-brown mudstone, silty mudstone, argillaceous siltstone, and shale. Mudstone, siltstone, and shale beds thicker and more numerous in central Newark basin west of Round Valley Reservoir. Sandstones mostly planar bedded and have scoured bases containing pebble lags and mud- stone rip-ups. The unit is coarser near Newark basin border fault, where poorly exposed, reddish-brown to pinkish-white, medium- to coarse- grained, feldspathic pebbly sandstone and conglomerate (Rss) and pebble to cobble quartzite conglomerate (Rscq). Maximum thickness of formation about 1,240-m (4,070').

Structurally, two (2) major normal extensional faults are located near the Site to the east and one (1) to the west. A thrust fault is also located approximately 2,000' to the northeast of the Site. These four (4) faults located near the Site are most likely inactive or at a low frequency of activity since no signs of recent off-set are visible. Bedrock was not encountered during soil borings conducted during this SI.

2.5 Hydrogeology & Groundwater

During the SI, groundwater was encountered in four (4) of the seven (7) borings advanced throughout the subject properties. Groundwater was measured at a depth of approximately 5' bgs in soil borings SB-1, SB-5, and SB-6. Groundwater was observed in soil boring SB-2 at approximately 9' bgs. It is Boswell's opinion that discrepancies in the shallow overburden groundwater depth is due to the heterogeneous nature of the historic fill material causing mounds and depressions in the groundwater table. The shallow overburden groundwater presumably follows the topography flowing to the southeast and eventually discharging into the Hudson River.

3.0 TECHNICAL OVERVIEW

This section provides a general technical overview of the investigation performed at the Sites. A Sample Location Map is included as ***Figure 2***. The investigation's photographs are found in ***Appendix E*** while the soil boring logs are included in ***Appendix F***.

3.1 Geophysical Survey

The geophysical survey contractor, Infrared Services, Inc. (Infrared), utilized both a magnetometer (i.e. metal detector) and ground penetrating radar (GPR) to investigate the property for the presence of USTs, drums, containers or other subsurface anomalies. Due to the compact soils and high groundwater table, the GPR imaging was limited to a depth of approximately 3' - 4' bgs. However the magnetometer was not inhibited by the soil depth. Furthermore, the south (rear) of Lot 12 contained thick vegetation and concrete rubble which inhibited the geophysical survey. Therefore only a general magnetometer "sweep" of the rear (south) end of Lot 12 was possible.

The geophysical survey identified one (1) distinct GPR anomaly at the Sites. The anomaly was located in Lot 15 on the east side of Block 12 inside the foundation of the former three (3) story flat. One (1) soil boring SB-4 was advanced inside of the geophysical anomaly which contained a 2' interval of crushed brick which may have accounted for the discrepancy in the GPR signatures.

No subsurface anomalies exhibited "UST-like" signatures and Infrared concluded that there were no abandoned or forgotten tanks on the property. Infrared's Geophysical Survey Report is included in ***Appendix G***.

3.2 Soil Sampling

Boswell's PAR identified the possibility of historic fill present at the sites. The NJDEP Historic Fill dataset depicts the entire Site and surrounding area as within potential historic fill limits (***Figure 3***). Furthermore, the First Search Technologies, Corp. radius report identified several sites within 1/8-mile of the subject property with confirmed historic fill and/or deed notices.

Based upon this information, Boswell contracted Environmental Management Associates (EMA) to advance seven (7) soil borings throughout the subject properties. The soil investigation was separated into two (2) phases, performed on May 14 and 17, 2012. Phasing of the investigation was necessary to relocate the automobiles from one side of the Site to the other since a majority of the Site is used as a private long term parking lot. All seven (7) soil borings contained historic fill material deposited at different times throughout the site's history in order to raise the sites' topographic grade or backfill foundations.

All soil cores were field screened at 1' intervals with a PID, Model Hnu PL-101

(10.2 electron volt bulb) calibrated to a benzene equivalent isobutylene concentration of 100 parts per million (ppm). Four (4) soil samples and one (1) quality assurance/quality control duplicate were collected based on the size of the site and the presence of historic fill.

Samples were analyzed for historic fill parameters including Polycyclic Aromatic Hydrocarbons (PAH) and Target Analyte List (TAL) Metals. Additionally, 25% of the samples (SB-7) were also selected for contingent Full Target Compound List/Target Analyte List (TCL/TAL) analysis including Extractable Petroleum Hydrocarbons (EPH), Volatile Organic Compounds (TCL VOC+), Semi-Volatile Organic Compounds (TCL ABN+) and polychlorinated biphenyls (PCB).

3.3 Groundwater Sampling

Since historic fill was identified within 2' of the seasonal high groundwater table, the NJDEP Technical Requirements specify collecting a groundwater sample for historic fill parameter analysis. EMA installed one (1) temporary well point at boring SB-1 in the presumed hydraulic downgradient of the subject properties. The well point was constructed of 15', 1" diameter slotted (0.01') polyvinylchloride (PVC) screen. Groundwater was encountered at a depth of approximately 5' bgs in the temporary well point.

Boswell purged the well point of three (3) to five (5) column volumes using a peristaltic pump and collected the sample with a dedicated Teflon bailer. One (1) groundwater sample and one (1) QA/QC duplicate were collected and analyzed for Full TCL/TAL including TCL VOA+, TCL ABN, PCBs and TAL Metals.

3.4 Quality Assurance/Quality Control (QA/QC)

The following QA Protocols were applicable to all samples:

1. Documentation was provided in the form of a field logbook, data sheets and chain of custody records.

2. All soil samples were analyzed by AccuTest Laboratories, NJDEP Certification No. 12129.

3. The detection limits were calculated and recorded along with the data, where appropriate.

4. All sample-holding times were met. Samples were delivered to the laboratory within 24-hours of sampling and properly cooled to 4° C. Included in the Laboratory Analysis Report ***(Appendix M)*** is documentation of sample collection and analysis dates.

5. All samples were analyzed in accordance with the methods outlined in ***Appendix H***.

6. Initial and continuing instrument calibration data is provided in the Laboratory Analysis Report ***(Appendix M)***.

7. Soil samples were obtained using dedicated polystyrene sampling scoops and placed into laboratory certified clean glassware. Groundwater samples were collected using a dedicated Teflon bailer attached to dedicated bailer twine.

8. Analysis on all of the samples was identified via the appropriate NJDEP approved methods. Documentation such as gas chromatograms and mass spectra are also provided.

9. All laboratory data is provided in the Tier II Reduced and Electronic Data Deliverables (EDD) format.

10. QA/QC duplicate soil and groundwater samples were collected.

11. One (1) QA/QC trip blank was included in the groundwater sample shipment since VOC analysis was performed.

3.5 Events Influencing Sampling Results

No significant event or seasonal variation affected the SI.

4.0 FINDINGS AND RESULTS

The following section details the SI's results. The sample location plan is provided in ***Figure 2,*** the soil boring logs are found in ***Appendix F*** and the Analytical Results Summary Tables are included in ***Appendix I.*** The complete laboratory data package is included in ***Appendix M.***

4.1 Soil Sampling

The following section details the results of the soil investigation at AOC-1. A total of seven (7) soil borings were advanced and four (4) soil samples collected from the borings where historic fill material was encountered. The PID field screening of the soil cores did not reveal any VOC concentrations above background in any sample. The soil sampling results are as follows:

SB-1

Sample SB-1 was obtained from the 1.5' to 2.0' bgs interval along the property's southeast corner in Lot 18. The sample was analyzed for PAHs and TAL Metals. The sample was characterized as dark brown silt and concrete.

The PAH analysis detected benzo(a)anthracene at a concentration of 56.8 ppm, **above** both the NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS) of 0.6 ppm and the NJDEP Default Impact to Groundwater Soil Remediation Standard (IGWSRS) of 0.5 ppm; benzo(a)pyrene was detected at 51.7 ppm, **above** both the RDCSRS and IGWSRS of 0.2 ppm; benzo(b)flouranthene was detected at 59.2 ppm, **above** both the RDCSRS of 0.6 ppm and IGWSRS of 2 ppm; benzo(k)flouranthene was detected at 25 ppm, **above** both the RDCSRS of 6 ppm and IGWSRS of 16 ppm; dibenzo(a,h)anthracene was detected at 9.88 ppm, **above** both the RDCSRS of 0.2 ppm and the IGWSRS of 0.2 ppm; and indeno(1,2,3-cd)pyrene was detected at 24.3 ppm, **above** both the RDCSRS of 0.6 ppm and the IGWSRS of 5 ppm. No other PAHs were detected above the NJDEP's SRS. However, chrysene was detected at 52.2 ppb, slightly **above** the IGWSRS of 52 ppm, but below the RDCSRS of 62 ppm.

The TAL Metals analysis detected arsenic at a concentration of 43 ppm, **above** both the NJDEP RDCSRS and IGWSRS of 19 ppm; and lead was detected at 866 ppm, **above** both the NJDEP RDCSRS of 400 ppm and IGWSRS of 59 ppm. No other metals were reported above the NJDEP SRS. However, aluminum was detected at a concentration of 7,820 ppm, **above** the IGWSRS of 3,900 ppm, but below the RDCSRS of 78,000 ppm; antimony was detected at 12.5 ppm, **above** the IGWSRS of 42 ppm, but below the RDCSRS of 31 ppm; cadmium was detected at 1.7 ppm, **above** the IGWSRS of 1 ppm, but below the RDCSRS of 78 ppm; manganese was detected at 181 ppm, **above** the IGWSRS of 42 ppm, but below the RDCSRS of 11,000 ppm; mercury was detected at 9 ppm, **above** the IGWSRS of 0.1 ppm, but below the RDCSRS of 23 ppm; nickel was detected at 51.7 ppm, **above** the

IGWSRS of 31 ppm, but below the RDCSRS of 1,600 ppm; silver was detected at 4.4 ppm, **above** the IGWSRS of 1 ppm, but below the RDCSRS of 390 ppm; and zinc was detected at 1,880 ppm, **above** the IGWSRS of 600 ppm, but below the RDCSRS of 23,000 ppm. Aluminum and manganese are secondary standards (i.e. not health based) therefore the IGWSRS do not apply. Moreover, the concentrations are below the 90th Percentile Concentration for soil found in New Jersey's Urban Piedmont (*Ambient Levels of Metals found in New Jersey Soils, Sanders, 2003*) therefore the results could also be attributable to background concentrations. Finally, and most importantly, the IGWSRS do not apply to historic fill.

SB-3

Sample SB-3 was obtained from the 4.0' to 4.5' bgs interval at the east side of Block 12 outside of a former building foundation inside Lot 14. The sample was analyzed for PAHs and TAL Metals. The sample was characterized as coal mixed with ash and brick.

The PAH analysis detected benzo(a)anthracene at a concentration of 0.696 ppm, **above** both the NJDEP RDCSRS of 0.6 ppm and the NJDEP IGWSRS of 0.5 ppm; benzo(a)pyrene was detected at 0.615 ppm, **above** both the RDCSRS and IGWSRS of 0.2 ppm; and benzo(b)flouranthene was detected at 0.801 ppm, **above** both the RDCSRS of 0.6 ppm and IGWSRS of 2 ppm. No other PAHs were detected above the NJDEP's SRS.

The TAL Metals analysis did not detect any targeted metals above the NJDEP RDCSRS. However, aluminum was detected at a concentration of 6,440 ppm, **above** the IGWSRS of 3,900 ppm, but below the RDCSRS of 78,000 ppm; lead was detected at 157 ppm, **above** the IGWSRS of 59 ppm, but below the RDCSRS of 400 ppm; manganese was detected at 129 ppm, **above** the IGWSRS of 42 ppm, but below the RDCSRS of 11,000 ppm; and mercury was detected at 0.88 ppm, **above** the IGWSRS of 0.1 ppm, but below the RDCSRS of 23 ppm. As previously discussed, the IGWSRS do not apply to historic fill.

SB-6

Sample SB-6 was obtained from the 9.0' to 9.5' bgs interval in the southwest portion of Block 12 inside of Lot 2. The sample was analyzed for PAHs and TAL metals. The sample was characterized as brown to green silty-clay with coal, glass, and metal.

The PAH analysis detected benzo(a)pyrene at a concentration of 0.269 ppm, **above** both the NJDEP RDCSRS and IGWSRS of 0.2 ppm. No other PAHs were detected above the NJDEP's SRS.

The TAL Metals analysis did not detect any targeted metals above the RDCSRS.

However, aluminum was detected at a concentration of 9,840 ppm, **above** the IGWSRS of 3,900 ppm, but below the RDCSRS of 78,000 ppm; beryllium was detected at 0.81 ppm, **above** the IGWSRS of 0.5 ppm, but below the RDCSRS of 16 ppm; lead was detected at 200 ppm, **above** the IGWSRS of 59 ppm, but below the RDCSRS of 400 ppm; manganese was detected at 501 ppm, **above** the IGWSRS of 42 ppm, but below the RDCSRS of 11,000 ppm; and mercury was detected at 0.8 ppm, **above** the IGWSRS of 0.1 ppm, but below the RDCSRS of 23 ppm. As previously discussed, the IGWSRS do not apply to historic fill.

SB-7

Sample SB-7 was obtained from the 2.5' to 3.0' bgs interval along the property's northwest portion of Block 12 inside of Lot 9. The sample was analyzed for PAHs and TAL metals. The sample was characterized as brown silty clay with coal, ash, and wood. Sample SB-7 was also selected for the 25% contingent Full TCL/TAL analysis including EPH, TCL VOA+, TCL ABN and PCBs.

Total EPH were reported at a concentration of 423 ppm, below the Ecological Concern Level (ECL) of 1,700 ppm, the RDCSRS of 5,100 ppm, and the Residual Product Limit (RPL) of 8,000 ppm. Additionally, since the results of the EPH analysis were below 1,000 ppm, the fractionated EPH analysis was not required.

The TCL VOC+ analysis did not detect any analyzed VOCs above the NJDEP's RDCSRS.

The PAH and TCL ABN analysis did not detect any targeted semi-volatile organic contaminants PAHs above the NJDEP's RDCSRS.

The TAL Metals analysis detected lead at a concentration of 678 ppm, **above** the NJDEP RDCSRS of 400 ppm and the IGWSRS of 59 ppm. No other analyzed compounds were reported above the NJDEP RDCSRS. However, aluminum was detected at a concentration of 5,620 ppm, **above** the IGWSRS of 3,900 ppm, but below the RDCSRS of 78,000 ppm; beryllium was detected at 0.72 ppm, **above** the IGWSRS of 0.5 ppm, but below the RDCSRS of 16 ppm; cadmium was detected at 2.7 ppm, **above** the IGWSRS of 1 ppm, but below the RDCSRS of 78 ppm; manganese was detected at 158 ppm, **above** the IGWSRS of 42 ppm, but below the RDCSRS of 11,000 ppm; mercury was detected at 0.38 ppm, **above** the IGWSRS of 0.1 ppm, but below the RDCSRS of 23 ppm; nickel was detected at 36.4 ppm, **above** the IGWSRS of 31 ppm, but below the RDCSRS of 1,600 ppm; and zinc was detected at 1,760 ppm, **above** the IGWSRS of 600 ppm, but below the RDCSRS of 23,000 ppm. As previously discussed, the IGWSRS do not apply to historic fill.

The PCB analysis did not detect any PCBs above the laboratory RL, well below the NJDEP RDCSRS.

4.2 Groundwater Sampling

The following details the results of the groundwater investigation at AOC-1. One (1) temporary well point was installed in soil boring SB-2. The results of the groundwater sample are as follows:

TWP-1

Sample TWP-1 was obtained from a temporary well point installed into soil boring SB-1 in the northeast portion of the subject property, in the presumed hydraulically downgradient direction. Groundwater was recorded at a depth of approximately 5' bgs, within the screened interval of the well point. The groundwater sample was analyzed for historic fill parameters (full TAL/TCL analysis) including TCL volatile and semi-volatile organic compounds (VOC/SVOC), TAL Metals, and PCBs. Prior to sampling Boswell purged the maximum five (5) well volumes of water, however, the groundwater samples remained turbid exhibiting a black silty color.

The VOC analysis did not report any targeted compounds above the NJDEP's Class II-A Aquifer Groundwater Quality Criteria (GQC) or Vapor Intrusion (VI) Groundwater Screening Level (GSL).

The SVOC analysis detected benzo(a)anthracene at 0.683 ppb, **above** the NJDEP's GQC of 0.1 ppb; benzo(a)pyrene was detected at 0.58 ppb, **above** the GQC of 0.1 ppb; benzo(b)flouranthene was detected at 0.608 ppb, **above** the GQC of 0.2 ppb; bis(2-ethylhexyl)phthalate was detected at 22 ppb, **above** the GQC of 3 ppb; and indeno(1,2,3-cd)pyrene was detected at 0.428 ppb, **above** the GQC of 0.2 ppb. No other targeted SVOCs were detected above the GQC.

The TAL Metals analysis detected aluminum at a concentration of 8,650 ppb, **above** the NJDEP's GQC of 200 ppb; antimony was detected at 14.9 ppb, **above** the GQC of 6 ppb; arsenic was detected at 24.5 ppb, **above** the GQC of 3 ppb; iron was detected at 39,200 ppb, **above** the GQC of 300 ppb; lead was detected at 738 ppb, **above** the GQC of 5 ppb; manganese was detected at 1,100 ppb, **above** the GQC of 50 ppb; mercury was detected at 2.6 ppb, **above** the GQC of 2 ppb; and sodium was detected at 198,000 ppb, **above** the GQC of 50,000 ppb. No other analyzed metals were detected above the most stringent regulatory limit.

PCBs were not detected above laboratory's RL, well below the NJDEP's GQC.

4.3 QA/QC Results

The following section details the results of the QA/QC samples. During the May 14, 2012 sampling event, one (1) duplicate soil sample and one (1) duplicate groundwater sample were collected, satisfying the NJDEP requirements of one (1) duplicate sample, per 20 samples, per matrix. Furthermore, since groundwater VOC analysis were performed, one (1) de-ionized water trip blank was included in the groundwater sample shipment to identify the presence of any potential cross contamination. A QA/QC Results Summary Table is provided in ***Appendix J***.

4.3.1 Duplicate Samples

SB-1/SB-11

Sample SB-11, a duplicate of soil sample SB-1, was analyzed for TCL PAHs and TAL metals. The PAH analysis detected acenaphthene at a concentration of 4.12 ppm in SB-1 and an estimated concentration of 0.0367 ppm in SB-11; acenaphthylene was detected at 9.38 ppm in SB-1 and an estimated concentration of 0.0323 ppm in SB-11; anthracene was detected at 26.5 ppm in SB-1 and 0.0824 ppm in SB-11; benzo(a)anthracene was detected at 56.8 ppm in SB-1 and 0.279 ppm in SB-11; benzo(a)pyrene was detected at 51.7 ppm in SB-1 and 0.321 ppm in SB-11; benzo(b)flouranthene was detected at 59.2 ppm in SB-1 and 0.331 ppm in SB-11; benzo(g,h,i)perylene was detected at 22.7 ppm in SB-1 and 0.229 ppm in SB-11; benzo(k)flouranthene was detected at 25 ppm in SB-1 and 0.113 ppm in SB-11; chrysene was detected at 52.2 ppm in SB-1 and 0.32 ppm in SB-11; dibenzo(a,h)anthracene was detected at 9.88 ppm in SB-1 and 0.0655 ppm in SB-11; flouranthene was detected at 114 ppm in SB-1 and 0.487 ppm in SB-11; fluorene was detected at 14.8 ppm in SB-1 and at an estimated concentration of 0.0387 ppm in SB-11; indeno(1,2,3-cd)pyrene was detected at 24.3 ppm in SB-1 and 0.167 ppm in SB-11; naphthalene was detected at 3.35 ppm in SB-1 and an estimated concentration of 0.0345 ppm in SB-11; phenanthrene was detected at 73.9 ppm in SB-1 and 0.366 ppm in SB-11; and pyrene was detected at 85.9 ppm in SB-1 and 0.414 ppm in SB-11.

The TAL Metals analysis detected aluminum at a concentration of 7,820 ppm in SB-1 and 5,020 ppm in SB-11; antimony was detected at 12.5 ppm in SB-1 and 4.4 ppm in SB-11; arsenic was detected at 43 ppm in SB-1 and 32.9 ppm in SB-11; barium was detected at 346 ppm in SB-1 and 143 ppm in SB-11; beryllium was detected at 0.4 ppm in SB-1 and 0.35 ppm in SB-11; cadmium was detected at 1.7 ppm in SB-1, but not detected above the laboratory RL in SB-11; calcium was detected at 10,800 ppm in SB-1 and 40,500 ppm in SB-11; total chromium was detected at 31 ppm in SB-1 and 15.5 ppm in SB-11; cobalt was detected at 10.3 ppm in SB-1 and 11.7 ppm in SB-11; copper was detected at 197 ppm in SB-1 and 761 ppm in SB-11;

iron was detected at 24,400 ppm in SB-1 and 41,300 ppm in SB-11; lead was detected at 866 ppm in SB-1 and 516 ppm in SB-11; magnesium was detected at 5,360 ppm in SB-1 and 1,660 ppm in SB-11; manganese was detected at 181 ppm in SB-1 and 233 ppm in SB-11; mercury was detected at 9 ppm in SB-1 and 3.9 ppm in SB-11; nickel was detected at 51.7 ppm in SB-1 and 24.5 ppm in SB-11; selenium was detected at 5 ppm in SB-11, but not detected above laboratory RL in SB-1; silver was detected at 4.4 ppm in SB-1 and 1.9 ppm in SB-11; vanadium was detected at 27.8 ppm in SB-1 and 19.1 ppm in SB-11; and zinc was detected at 1,880 ppm in SB-1 and 492 ppm in SB-11.

The difference in the sample concentrations can be attributed to the non-homogeneity of the historic fill soil sample matrix. Boswell finds the difference in analytical concentrations acceptable and considers the results valid.

TWP-1/TWP-11

Sample TWP-11, a duplicate of sample TWP-1, was analyzed for Full TCL/TAL.

The VOC analysis reported carbon disulfide at an estimated concentration of 0.32 ppb in TWP-1 and 0.28 ppb in TWP-11; chloroethane (ethyl chloride) was detected at 1.3 ppb in TWP-1 and 1.4 ppb in TWP-11; and methyl tertiary butyl ether (MTBE) was detected at an estimated concentration of 0.58 ppb in TWP-1 and 0.53 ppb in TWP-11.

The SVOC analysis reported acenaphthalene at 0.599 ppb in TWP-1 and 0.662 ppb in TWP-11; acenaphthylene was detected at 0.117 ppb in TWP-1 and 0.132 ppb in TWP-11; anthracene was detected at 0.274 ppb in TWP-1 and 0.327 ppb in TWP-11; benzo(a)anthracene was detected at 0.683 ppb in TWP-1 and 0.805 ppb in TWP-11; benzo(a)pyrene was detected at 0.58 ppb in TWP-1 and 0.679 ppb in TWP-11; benzo(b)flouranthene was detected at 0.608 ppb in TWP-1 and 0.701 ppb in TWP-11; benzo(g,h,i)perylene was detected at 0.493 ppb in TWP-1 and 0.567 ppb in TWP-11; benzo(k)flouranthene was detected at 0.42 ppb in TWP-1 and 0.497 ppb in TWP-11; bis(2-ethylhexal)phthalate was detected at 22 ppb in TWP-1, but below the laboratory RL in TWP-11; chrysene was detected at 0.61 ppb in TWP-1 and 0.707 ppb in TWP-11; dibenz(a,h)anthracene was detected at 0.188 ppb in TWP-1 and 0.22 ppb in TWP-11; flouranthene was detected at 0.953 ppb in TWP-1 and 1.09 ppb in TWP-11; fluorene was detected at 0.201 ppb in TWP-1 and 0.221 ppb in TWP-11; indeno(1,2,3-cd)pyrene was detected at 0.428 ppb in TWP-1 and 0.498 ppb in TWP-11; naphthalene was detected at 0.292 ppb in TWP-11, but below the laboratory RL in TWP-1; phenanthrene was detected at 0.88 ppb in TWP-1 and 1.06 ppb in TWP-11;

and pyrene was detected at 1.01 ppb in TWP-1 and 1.19 ppb in TWP-11.

The TAL Metals analysis detected aluminum at 8,650 ppb in TWP-1 and 10,500 ppb in TWP-11; antimony was detected at 14.9 ppb in TWP-1 and 20.3 ppb in TWP-11; arsenic was detected at 24.5 ppb in TWP-1 and 33.5 ppb in TWP-11; barium was detected at 521 ppb in TWP-1 and 600 ppb in TWP-11; beryllium was detected at 1 ppb in TWP-11, but below the laboratory RL in TWP-11; calcium was detected at 140,000 ppb in TWP-1 and 142,000 ppb in TWP-11; total chromium was detected at 22.3 ppb in TWP-1 and 28.1 ppb in TWP-11; copper was detected at 578 ppb in TWP-1 and 772 ppb in TWP-11; iron was detected at 39,200 ppb in TWP-1 and 47,900 ppb in TWP-11; lead was detected at 738 ppb in TWP-1 and 976 ppb in TWP-11; magnesium was detected at 35,400 ppb in TWP-1 and 35,700 ppb in TWP-11; manganese was detected at 1,100 ppb in TWP-1 and 1,160 ppb in TWP-11; mercury was detected at 2.6 ppb in TWP-1 and 2.9 ppb in TWP-11; nickel was detected at 20.8 ppb in TWP-1 and 26.7 ppb in TWP-11; potassium was detected at 18,700 ppb in TWP-1 and 18,800 ppb in TWP-11; sodium was detected at 198,000 ppb in TWP-1 and 197,000 ppb in TWP-11; and zinc was detected at 387 ppb in TWP-1 and 495 ppb in TWP-11.

The PCB analysis did not detect PCBs above the laboratory's RL for either sample TWP-1 or TWP-11.

The laboratory did not report any problems with the analyses and based upon the close correlation of the groundwater results, Boswell considers the data valid.

4.3.2 Trip Blank

Analysis of the de-ionized water trip blank, which accompanied the groundwater sample shipment, did not reveal evidence of VOC cross-contamination.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following section summarizes the results of the investigation conducted at each of the potential environmental AOCs and provides the necessary recommendations. All applicable NJDEP forms are contained in ***Appendix A***. The Estimated Cost Summary Table is included in ***Appendix K***.

5.1 AOC-1: Historic Fill

Results – In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants.

On May 14 and 17, 2012 Boswell contracted Environmental Management Associates, Inc. (EMA) to advance a total seven (7) soil borings throughout the subject properties. All soil borings exhibited the presence of historic fill including brick, concrete, coal, ash, wood, and glass. Based on the size of the sites (less than 1-acre) Boswell collected four (4) soil samples and one (1) groundwater sample to be analyzed for historic fill parameters. The results indicated that the soil throughout the subject properties is contaminated with low level polycyclic aromatic hydrocarbons (PAH) and metals including arsenic and lead **above** the NJDEP's Residential Direct Contact Soil Remediation Standards (RDCSRS). The soil samples also contained numerous metals above the NJDEP's Impact to Groundwater Soil Remediation Standard (IGWSRS), however, since the material is historic fill, the IGWSRS limits do not apply. The temporary well point groundwater sample also contained PAHs and metals **above** the NJDEP's Groundwater Quality Criteria (GQC).

Recommendations – Since soil contamination was detected in the historic fill above the NJDEP's RDCSRS from various depths of up to 9.5' below ground surface (bgs), Boswell recommends engineering (capping) and institutional (deed notice) controls. The City of Hoboken is evaluating the purchase of the subject properties to construct a park. The park's design and construction should include the necessary capping components to protect human health and the environment.

The groundwater contamination can be managed through the implementation of a Classification Exception Area (CEA) that places restrictions on the use of the Site's groundwater. Since it is anticipated that the site will utilize potable water supplied by the United Water, a CEA should not detrimentally affect the subject property.

Prior to implementation of the remedial action, a Licensed Site Remediation Professional (LSRP) must prepare a Remedial Action Workplan (RAW). Once the remediation is complete, the LSRP must also prepare a Remedial Action Report (RAR) including the Deed Notice and issue a Response Action Outcome (RAO) for the Site.

Furthermore, a Receptor Evaluation and Baseline Ecological Assessment (RE/BEA)

should be completed for the subject properties within 1-year of the submittal of the NJDEP Confirmed Discharge Notification Form. The RE/BEA will identify any groundwater contamination receptors and sensitive populations that may need to be addressed during the remedial action. Public Notification will also need to be provided a minimum of 14-days prior to the Remedial Action (e.g., capping).

5.2 AOC-2: Potential USTs

Results – The various properties have been developed and modified throughout the last 100-years according to aerial imagery and Sanborn Fire Insurance Maps. Some of the former structures may have utilized heating oil underground storage tanks (UST).

Boswell contracted Infrared Services, Inc. (Infrared) to perform a geophysical survey of the subject properties in order to confirm the presence/absence of USTs or other subsurface anomalies. The geophysical survey identified one (1) distinct ground penetrating radar (GPR) anomaly. The anomaly was located in Lot 15 on the east side of Block 12 inside the foundation of the former 3-story flat. One (1) soil boring (SB-4) was advanced inside of the geophysical anomaly which was discovered to be a 2' interval of crushed brick that may have accounted for the discrepancy in the GPR signatures.

No subsurface anomalies exhibited "UST-like" signatures and Infrared concluded that there were no abandoned or forgotten tanks on the property.

Recommendation - Based upon the geophysical survey results, the absence of visually identifiable petroleum contamination in the soil borings, Boswell recommends no further investigation for potential AOC-2.

5.3 AOC-3: Off-Site Former UST Releases

Results – The First Search radius report identified the presence of off-site UST releases of gasoline and fuel oil nearby the site. Based on the age of the releases (~10 years ago), the potential contaminants have a low possibility of impacting the site. Moreover, it is the obligation of the responsible party (RP) to address contamination migrating from their site. The temporary well point groundwater sample did not detect any targeted volatile organic compounds (VOC) above the NJDEP GQC or NJDEP Vapor Intrusion (VI) Groundwater Screening Level.

Recommendation – Since the groundwater sample did not exhibit any VOCs above the NJDEP GQC, Boswell does not have any evidence that nearby contaminated sites are affecting the subject property's groundwater. Therefore, Boswell recommends no further investigation for potential AOC.

SITE INVESTIGATION REPORT CHECKLIST

- [x] Cover Sheets
- [x] Confirmed Discharge Notification Form
- [x] PA/SI Report Form
- [x] Site Location Maps
- [x] United States Geological Survey (USGS) Quadrangle Map
- [x] New Jersey Geological Survey Bedrock Geologic Map & Soil Survey Map
- [x] Site Photodocumentation
- [x] Geophysical Survey
- [x] Soil Boring Logs
- [ ] ~~Well Point Purge Data~~
- [x] Sampling Parameter Summary Table
- [x] Analytical Results Summary Table
- [x] Quality Assurance/Quality Control Results Summary Table
- [x] Estimated Cost Summary Table
- [x] Qualifications
- [ ] New Jersey Tier II Reduced Deliverables Package
- [ ] Electronic Deliverables Data Packages
- [x] Figure 1: AOC Location Map
- [ ] Figure 2: Sample Location Plan
- [ ] Subs Paid
- [x] Figure 3 Historic Fill Map

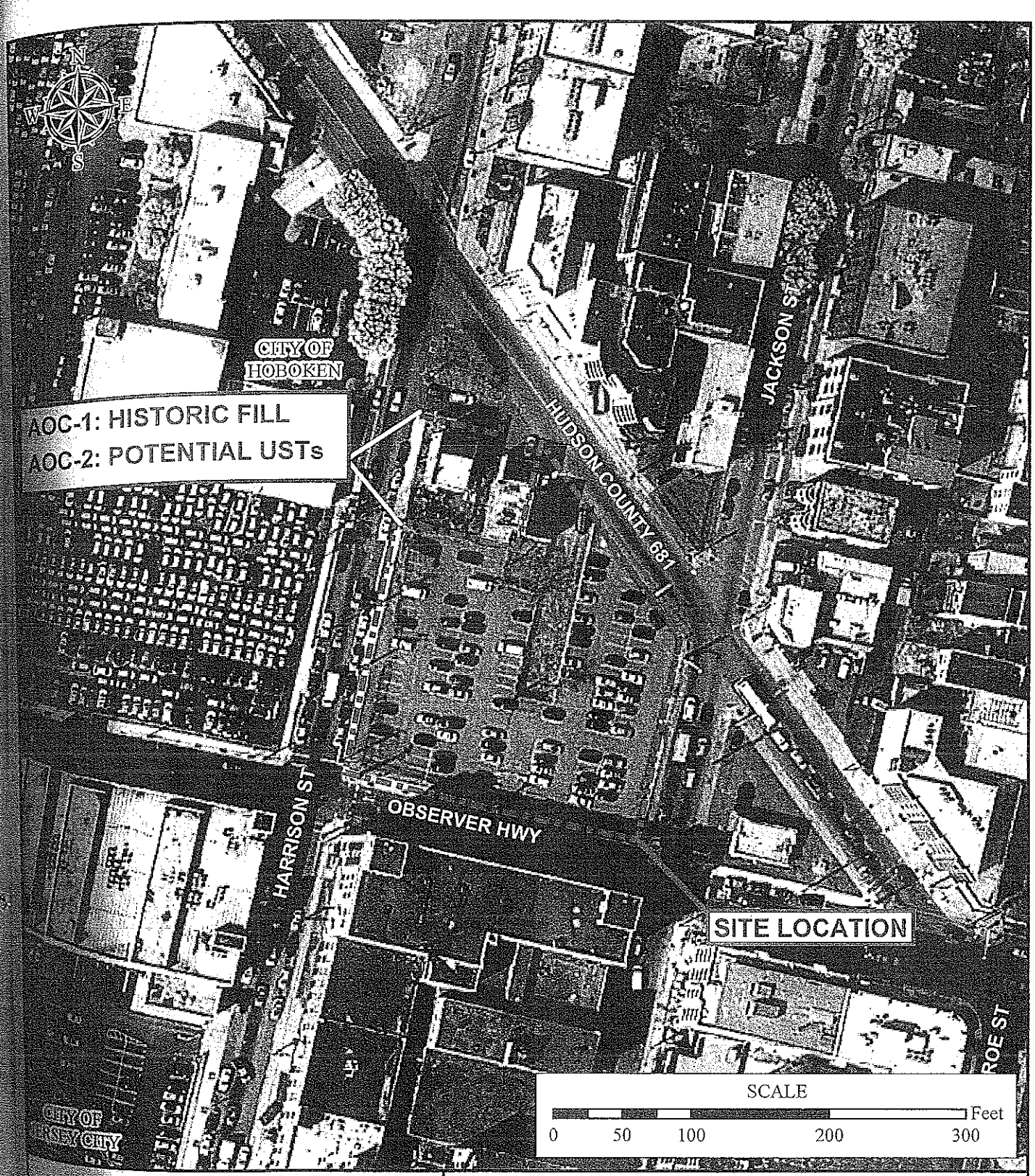
- [x] Signature
- [x] Signature given to RM for signature

Project Name: Block 12 SI

Project Number: HO-458

FIGURE 1

Area of Concern (AOC) Location Map



LEGEND

AOC LOCATION BOUNDARIES

SOURCE:

HUDSON COUNTY ROADS, 2010
NJ STATE COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJDEP, 2007 ORTHOPHOTOGRAPHY, (DISK 12 OF 13)
NJDOT ROAD DATA, 2010

AREA OF CONCERN (AOC) LOCATION MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: CEA	SCALE: 1" = 100' DATE: JUNE 2012	JOB NO. HO-458 FIGURE AOC MAP

FIGURE 2

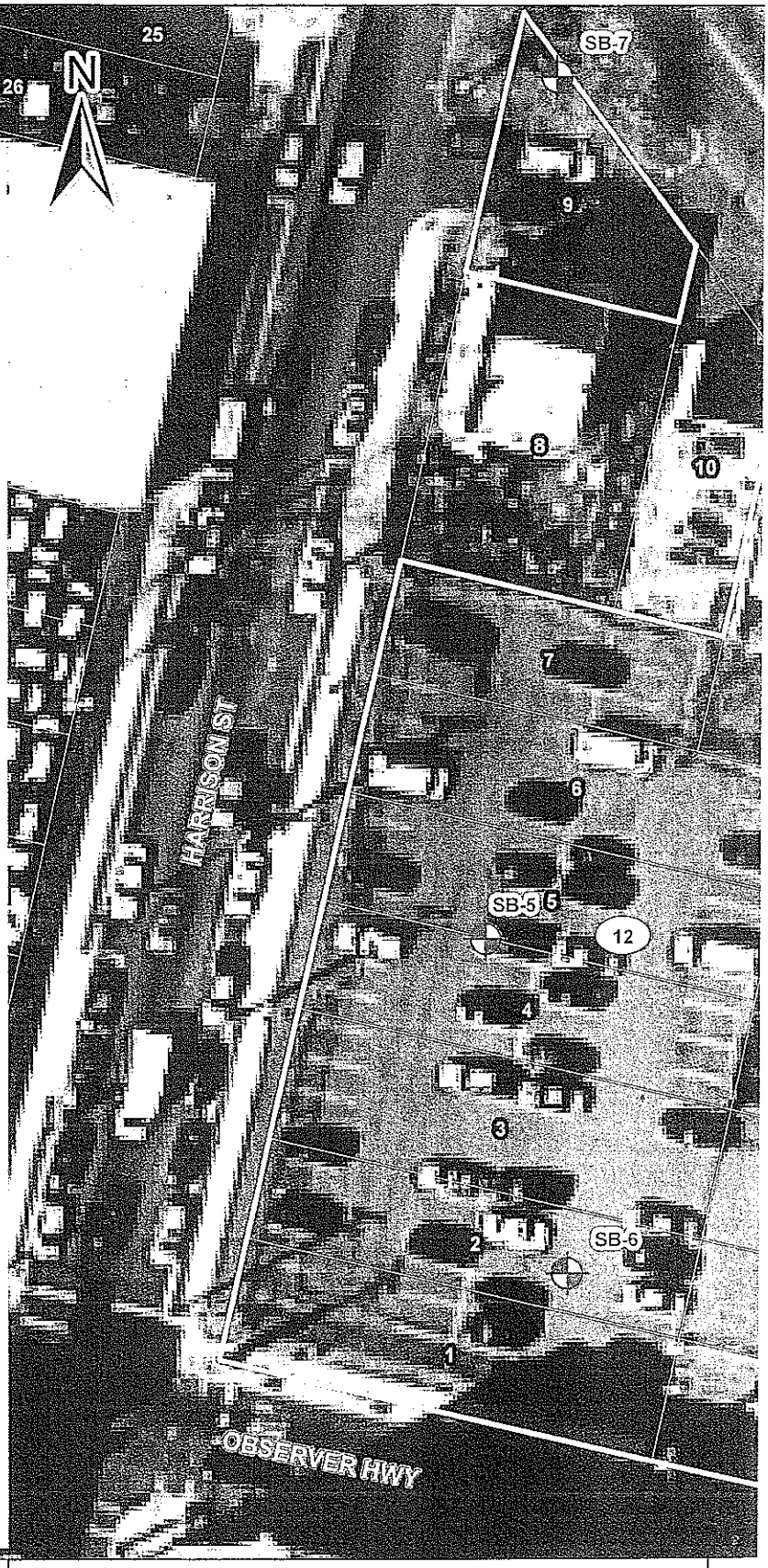
Sampling Plan

TEMPORARY WELL POINT GROUNDWATER SAMPLE RESULTS

Sample Number	TWP-1		
Lab ID	JB6521-1		
Matrix	Aqueous		
PID	0 ppm		
Sampler	MF, CC		
Sampling Date	5/14/2012		
Sampling Time	10:20		
Units	µg/kg (ppm)		
Analytical Parameter		NJDEP GQC +	NJDEP VI GSL ++
Volatile Organic Compounds (TCL VOA+)			
Carbon disulfide	0.32 J	700	710
Chloroethane	1.3	-	4
Methyl-Tertiary-Butyl-Ether (MTBE)	0.58 J	70	78
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	-
Semi-volatile Organic Compounds (TCL ABN+)			
Acenaphthene	0.599	400	
Acenaphthylene	0.117	100	
Anthracene	0.274	2,000	
Benzo(a)anthracene	**0.683**	0.1	
Benzo (a) pyrene	**0.58**	0.1	
Benzo(b)fluoranthene	**0.608**	0.2	
Benzo(g,h,i)perylene	0.493	100	
Benzo(k)fluoranthene	0.42	0.5	
bis(2-Ethylhexyl)phthalate	22	3	
Chrysene	0.61	5	
Dibenz(a,h)anthracene	0.188	0.3	
Fluoranthene	0.953	300	
Fluorene	0.201	300	
Indeno(1,2,3-cd)pyrene	**0.428**	0.2	
Naphthalene	ND	300	
Phenanthrene	0.88	100	
Pyrene	1.01	200	
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	
TAL Metals			
Aluminum	**8,650**	200	
Antimony	**14.9**	6	
Arsenic	**24.5**	3	
Barium	521	6,000	
Beryllium	<1.0	1	
Cadmium	<3.0	4	
Calcium	140,000	-	
Chromium (total)	22.3	70	
Cobalt	<50	-	
Copper	578	1,300	
Iron	**39,200**	300	
Lead	**738**	5	
Magnesium	35,400	-	
Manganese	**1,100**	50	
Mercury	**2.6**	2	
Nickel	20.8	100	
Potassium	18,700	-	
Selenium	<10	40	
Silver	<10	40	
Sodium	**198,000**	50,000	
Thallium	<2.0	2	
Vanadium	<50	-	
Zinc	387	2,000	
Polychlorinated Biphenyls (TCL PCB)			
Total PCBs	ND	0.5	

NOTES:

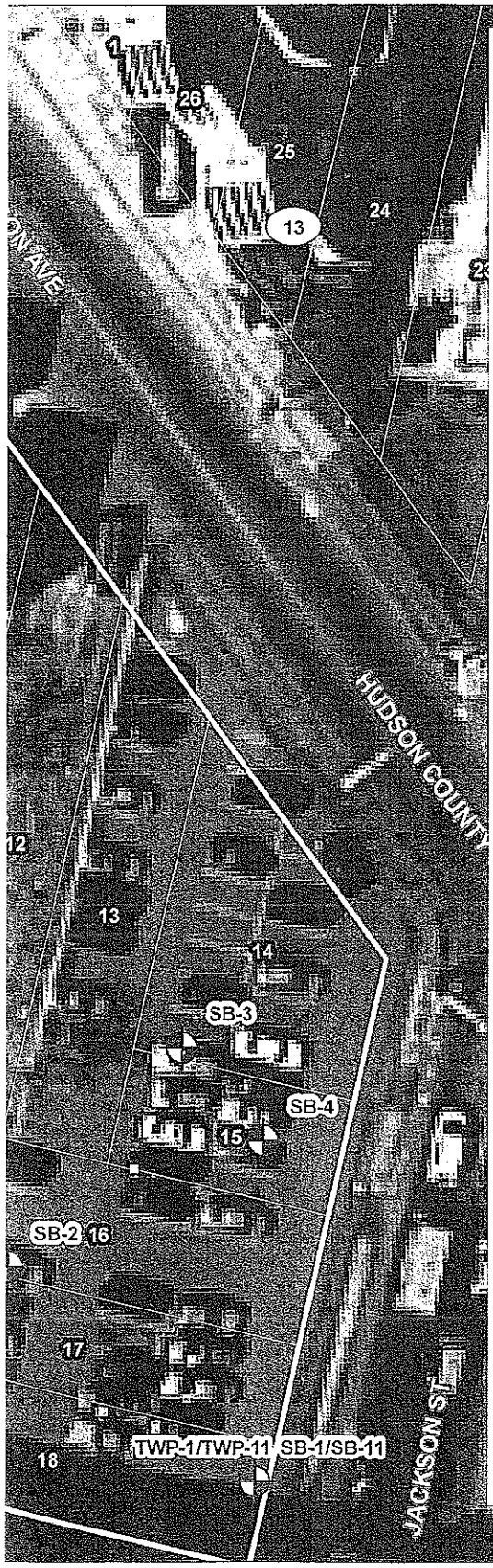
ND = Undetected at Laboratory Reporting Limit (RL)
J = Indicates an estimated value
+ = NJDEP Class II-A Aquifer Groundwater Quality Criteria
++ = NJDEP Generic Vapor Intrusion Groundwater Screening Level
* = Carcinogenic Synthetic Organic Compounds - 5 ppb each/25 ppb total
** = Non-Carcinogenic Synthetic Organic Compounds - 100 ppb each/500 ppb total
PID = Photoionization Detector
ppm = parts per million
µg/L = micrograms per liter = parts per billion = ppb
TAL = Target Analyte List
< = Value shown is less than laboratory RL
bold = Exceeds NJDEP Class II-A Groundwater Quality Criteria (GQC)



LEGEND

SITE BOUNDARIES
HUDSON COUNTY PARCELS
(10) BLOCK NUMBER
(18) LOT NUMBER
SOIL BORING AND TEMPORARY WELL POINT LOCATION
SOIL BORING LOCATION

Boswell McClave Engineering
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 Philips Avenue South Hackensack, NJ 07606



SOIL SAMPLE RESULTS

Sample Number	SB-1	SB-3	SB-6	SB-7	NJDEP Soil Remediation Standards		
Lab ID	JB6521-4	JB6521-6	JB6934-1 & JB6934-1A	JB6934-2, JB6934-2A & JB6934-2R			
Sampling Date	5/14/2012	5/14/2012	5/17/2012	5/17/2012			
Matrix	Soil	Soil	Soil	Soil			
Depth	1.5'-2.0'	4.0'-4.5'	9.0'-9.5'	2.5'-3.0'			
PID	0.4 ppm	0.4 ppm	0.5 ppm	0.5 ppm			
Sampler	MF, CC	MF, CC	MF, CC	MF, CC			
Sampling Time	10:00	11:30	9:30	9:45			
Units	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)			
Analytical Parameter							
NJ Category-2 Non-Fractionated Extractable Petroleum Hydrocarbons (EPH)					RDC	NRDC	IGWSSL
EPH (C9-C28)	~	~	~	203	-	-	-
EPH (>C28-C40)	~	~	~	220	-	-	-
Total EPH (C9-C40)	~	~	~	423	1,700 / 5,100 / 8,000*		-
Volatile Organic Compounds (TCL VOA)							
Benzene	~	~	~	0.0013 J	2	5	0.005
Toluene	~	~	~	0.00067 J	6,300	91,000	4
Tentitively Identified Compounds (TICs) Volatiles	~	~	~	ND	-	-	-
Semi-volatile Organic Compounds (TCL ABN)							
Acenaphthene	4.12	0.0503	0.0471	ND	3,400	37,000	74
Acenaphthylene	9.38	0.0855	ND	ND	-	300,000	-
Anthracene	26.5	0.186	0.119	0.0217 J	17,000	30,000	1,500
Benzo(a)anthracene	**56.8**	**0.696**	0.25	0.0721	0.6	2	0.5
Benzo(a)pyrene	**51.7**	**0.615**	**0.269**	0.0693	0.2	0.2	0.2
Benzo(b)fluoranthene	**59.2**	**0.801**	0.224	0.0886	0.6	2	2
Benzo(g,h,i)perylene	22.7	0.364	0.135	0.084	380,000	30,000	-
Benzo(k)fluoranthene	25	0.344	0.172	0.0641	6	23	16
Carbazole	~	~	~	0.0480 J	24	96	-
Chrysene	**52.2**	0.705	0.225	0.0927	62	230	52
Dibenzo(a,h)anthracene	**9.88**	0.129	0.0633	0.0268 J	0.2	0.2	0.5
Diethyl phthalate	~	~	~	0.0808 J	49,000	550,000	57
bis(2-Ethylhexyl)phthalate	~	~	~	0.142	35	140	790
Fluoranthene	114	1.59	0.389	0.134	2,300	24,000	840
Fluorene	14.8	0.04	0.0481	ND	2,300	24,000	110
Indeno(1,2,3-cd)pyrene	**24.3**	0.325	0.139	0.0585	0.6	2	5
2-Methylnaphthalene	~	~	~	0.0763 J	230	2,400	5
Naphthalene	3.35	0.0208 J	0.0150 J	ND	31	340	0.2
Phenanthrene	73.9	0.834	0.345	0.0892	-	300,000	-
Pyrene	85.9	1.64	0.395	0.152	1,700	18,000	550
Tentitively Identified Compounds (TICs) Semi-Volatiles	~	~	~	1.45 J	-	-	-
TAL Metals							
Aluminum	**7,820**	**6,440**	**9,840**	**5,620**	78,000	-	3,900
Antimony	**12.5**	<2.4	<2.5	<2.2	31	450	6
Arsenic	**43**	10.2	7.2	18	19	19	19
Barium	346	108	95	204	16,000	59,000	1,300
Beryllium	0.4	0.33	**0.81**	**0.72**	16	140	0.5
Cadmium	**1.7**	<0.60	<0.61	**2.7**	78	78	1
Calcium	10,800	12,400	10,200	5,040	-	-	-
Chromium (total)	31	8.7	22.5	39.7	-	-	-
Cobalt	10.3	<6.0	7.1	<5.6	1,600	590	59
Copper	197	45.6	32.9	80.6	3,100	45,000	7,300
Iron	24,400	10,000	17,900	21,300	-	-	-
Lead	**866**	**157**	**200**	**678**	400	800	59
Magnesium	5,360	1,140	4,530	1,500	-	-	-
Manganese	**181**	**129**	**591**	**158**	11,000	5,900	42
Mercury	**9**	**0.88**	**0.8**	**0.38**	23	65	0.1
Nickel	**51.7**	6.1	22.3	**36.4**	1,600	23,000	31
Potassium	<1,500	<1,200	2,370	<1,100	-	-	-
Selenium	<3.1	<2.4	<2.5	<2.2	390	5,700	7
Silver	**4.4**	<0.60	<0.61	0.91	390	5,700	1
Sodium	<1,500	<1,200	<1,200	<1,100	-	-	-
Thallium	<1.5	<1.2	<1.2	<1.1	6	79	3
Vanadium	27.8	11.7	28.7	43.6	78	1,100	-
Zinc	**1,880**	87.7	83.3	**1,760**	23,000	110,000	600
Polychlorinated Biphenyls (TCL PCB)							
Total PCB	~	~	~	ND	0.2	1	0.2

NOTES:

RDC = NJDEP Residential Direct Contact Soil Remediation Standard
NRDC = NJDEP Non-Residential Direct Contact Soil Remediation Standard
IGWSSL = Impact to Groundwater Soil Screening Level
bold = Exceeds NJDEP RDCSRS
bold = Exceeds NJDEP IGWSSL
J = Estimated Value
PID = Photoionization Detector
- = Remediation Standard Not Established
ND = Not detected
mg/kg = milligrams per kilogram = ppm = parts per million
~ = Not analyzed
< = Value shown is less than laboratory RL
* ecological concern/soil remediation standard/residual product limits

SCALE

Feet

20 40 80 120

NTY PARCEL DATA, 2010
RTHOPHOTOGRAPHY, (DISK 12 OF 13)
DATA, 2010

SAMPLE LOCATION PLAN

BLOCK 12, LOTS 1-7, 9, AND 11-18, CITY OF HOBOKEN

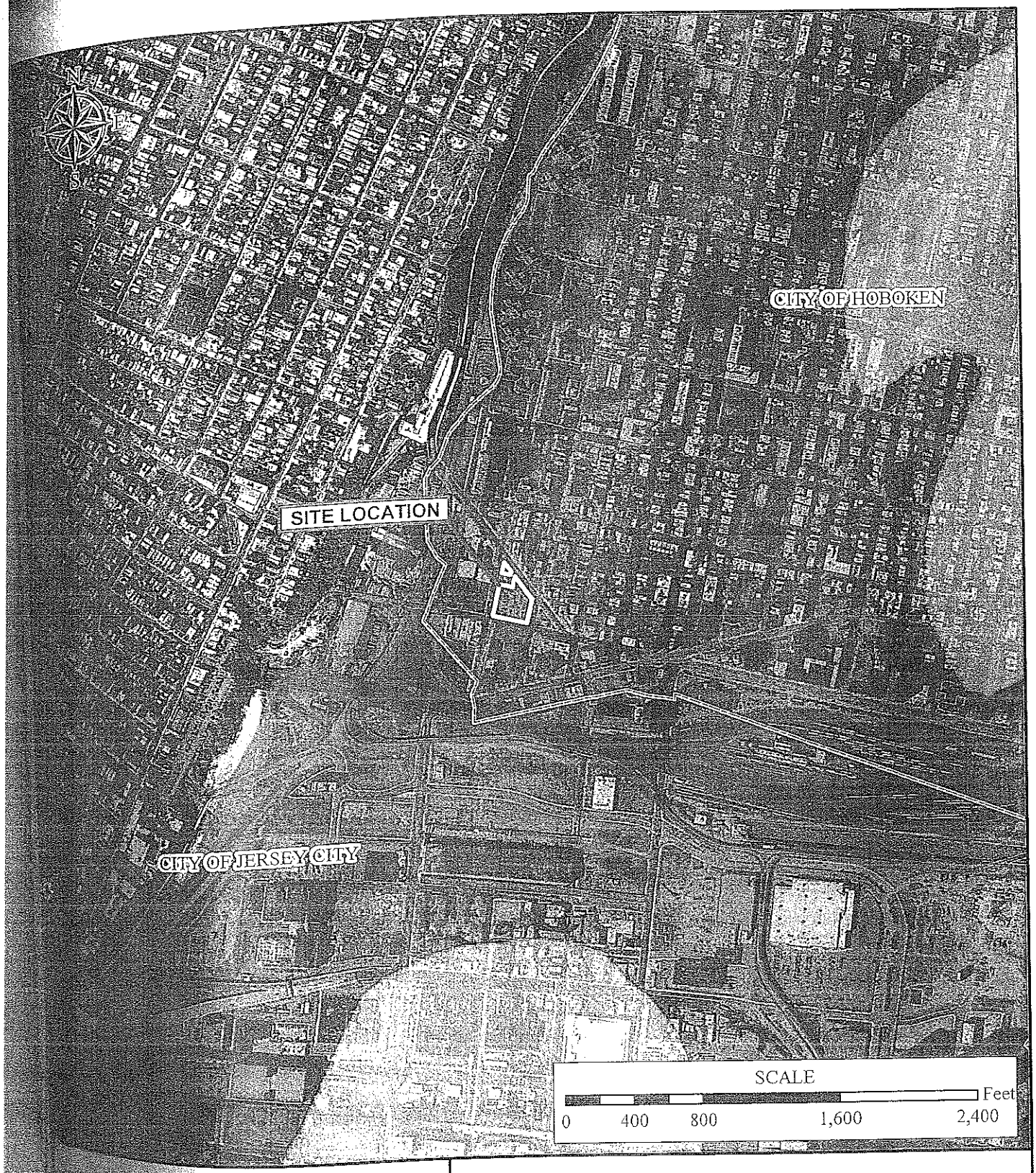
HUDSON COUNTY NEW JERSEY

SURVEYED BY N/A	DESIGNED BY CJC	SCALE	JOB NO.	DATE
DRAWN BY CJC	CHECKED BY CEA	1 in = 40 ft	HO-458	06/07/2012

DRAWING NO. SAMPLING PLAN FIGURE NO. 2

FIGURE 3

Historic Fill Aerial Overlay Map



LEGEND

BOUNDARIES

AL BOUNDARIES

HISTORIC FILL

FILL AREAS

NON-FILL AREAS

HISTORIC FILL DATASET, 2005

AND MUNICIPALITY BOUNDARIES, 2010

HOGRAPHY (Disk 12 of 13), 2007

HISTORIC FILL MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 800' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE HIST. FILL

APPENDIX A

NJDEP Forms

New Jersey Department of Environmental Protection
Site Remediation Program

CONFIRMED DISCHARGE NOTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Block 12, Lots 1-7, 9, 11-18

List all AKAs:

Street Address: 57-69 Harrison Street, 51-59 Paterson Avenue, & 58-64 Jackson Street

Municipality: City of Hoboken (Township, Borough or City)

County: Hudson Zip Code: 07030

Program Interest (PI) Number(s): Case Tracking Number(s):

Site Remediation Initiated Pursuant to N.J.A.C. 7:26C-2.

State Plane Coordinates for a central location at the site: Easting: 619,035 Northing: 694,045

Municipal Block(s) and Lot(s):

Block # 12	Lot # 1, 2, 3, 4, 5, 6, 7, 9,	Block # 12	Lot # 11, 12, 13, 14, 15,		
Block # 12	Lot # 16, 17, and 18	Block #	Lot #		
Block #	Lot #	Block #	Lot #		
Block #	Lot #	Block #	Lot #		

SECTION B. DISCHARGE BEING REPORTED WITH THIS SUBMISSION

Incident Number/Com. Center Number for the discharge being reported with this submission:

Is there an existing remedial case at the site? ☐ Yes ☒ No

If "Yes," would you like to combine this incident number with the existing case? ☐ Yes ☐ No

What is the Tracking Number for the existing remedial you would like to combine this incident number with:

SECTION C. CURRENT OWNER OF THE SITE

Salutation/Name of Organization: Ponte Equities, Inc./Unity Environmental

First Name of Contact: Blake Last Name of Contact: Davis

Title: Attorney

Phone Number: (201) 863-4400 Ext: Fax:

Street Address: 268 West Street

City: New York State: New York Zip Code: 10013

Email Address:

SECTION D. SITE USE

Site Use (check all that apply)

- ☐ Park or recreational use
- ☒ Vacant
- ☐ Government
- ☐ Other:

Intended Future Site Use, if known (check all that apply)

- ☐ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☒ Park or recreational use
- ☐ Vacant
- ☐ Government
- ☐ Future site use unknown

SECTION E. DESCRIPTION OF DISCHARGE

Date Discharge Occurred: _____ Date Discharge Notification to the Department: _____

Media Contaminated:

☒ Soil ☒ Groundwater ☐ Surface Water Receiving Water: _____

Description of Discharge:

Historic fill was visually identified in soil borings. Subsurface soil samples detected Polycyclic Aromatic Hydrocarbons (PAH), arsenic, and lead above the NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS). Groundwater contained PAHs and metals: aluminum, antimony, arsenic, iron, lead, manganese, mercury, and sodium above the NJDEP Groundwater Quality Criterion (GQC). Date of release of historic fill material is unknown.

SECTION F. FEDERAL RELEASE

Is this discharge related to a release from a Federally regulated UST? ..... ☐ Yes ☒ No

If "Yes," please answer the following questions:

Tank ID (from Registration): _____ Tank System Size: _____

Contents: _____

Source of Federal Release (check appropriate category):

- ☐ Dispenser
- ☐ Vent Pipe
- ☐ Fill Port/Fill Lines
- ☐ Piping (Upgraded)
- ☐ Piping (Not Upgraded)
- ☐ Spill Bucket
- ☐ Tank (Upgraded)
- ☐ Tank (Not Upgraded)
- ☐ Vapor System Recovery
- ☐ Submersible Turbine Pump Area
- ☐ Other (Specify) _____
- ☐ Delivery Problem
- ☐ Unknown

Cause of Federal Release (check appropriate category):

- ☐ Spill
- ☐ Overfill
- ☐ Physical/Mechanical Damage
- ☐ Loose Fittings
- ☐ Installation Problem
- ☐ Vapor Release
- ☐ Other (Specify) _____
- ☐ Corrosion
- ☐ Unknown

SECTION G. CASE TYPE: (check all that apply)

- ☐ Child Care Center
- ☐ School
- ☐ School Development Authority (SDA)
- ☐ UST Grant/Loan
- ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☐ Administrative Consent Order (ACO)
- ☐ Remediation Agreement (RA)/Remediation Certification
- ☐ Brownfield Development Area (BDA)
- ☐ Site is located within an economic development priority area
- ☐ ISRA
- ☐ Regulated Underground Storage Tank (UST)
- ☐ Landfill
- ☐ Federal oversight (RCRA, CERCLA, USDOD, TSCA, etc.)
- ☐ Coal Gas
- ☐ Chrome Site (Chromate chemical production waste)
- ☒ Spill Act Discharge
- ☐ Government Entity
- ☐ Not Applicable

SECTION H. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: The City of Hoboken

Representative First Name: Quentin Representative Last Name: Wiest

Title: Business Administrator

Phone Number: (201) 420-2059 Ext: Fax: (201) 420-9513

Mailing Address: 94 Washington Street

City/Town: Hoboken State: New Jersey Zip Code: 07030

Email Address: qwiest@hobokennj.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Quentin Wiest Date: 6-11-12

Name/Title: Quentin Wiest/Business Administrator **No Changes Since Last Submittal** ☐

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

New Jersey Department of Environmental Protection
Site Remediation Program
PRELIMINARY ASSESSMENT / SITE INVESTIGATION
(Also Use this Form For UST Unknown Source Investigations)

Date Stamp
(For Department use only)

A Phase I or Phase II is not equivalent to a Preliminary Assessment; therefore, it will not be an acceptable substitution.

SECTION A. SITE NAME AND LOCATION

Site Name: Block 12, Lots 1-7, 9, 11-18

List all AKAs:

Street Address: 57-69 Harrison Street, 51-59 Paterson Avenue, & 58-64 Jackson Street

Municipality: City of Hoboken (Township, Borough or City)

County: Hudson Zip Code: 07030

Incident Number(s)/Com. Center Number(s):

Program Interest (PI) Number(s): 585028 Case Tracking Number(s):

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2:

State Plane Coordinates for a central location at the site: Easting: 619,035 Northing: 694,045

Municipal Block(s) and Lot(s):

Block #	12	Lot #	1, 2, 3, 4, 5, 6, 7, 9,	Block #	12	Lot #	11, 12, 13, 14, 15,
Block #	12	Lot #	16, 17, and 18	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☒ No

If "Yes," please list the Case Manager:

SECTION C. SUBMITTAL STATUS

	Not Applicable	Included in this Submission	Previously Submitted	Date Of Submission	Date of Revised Submission	Date of Document Withdrawal
Public Notification	☒	☐	☐			
Immediate Environmental Concern Report	☒	☐	☐			
IEC Engineered System Response Action Report	☒	☐	☐			
Vapor Concern Mitigation Report	☒	☐	☐			
LNAPL Interim Remedial Measure Report	☒	☐	☐			
Preliminary Assessment Report	☐	☒	☐			
Receptor Evaluation	☒	☐	☐			
Site Investigation Report	☐	☒	☐			
Remedial Investigation/Remedial Action Work Plan	☒	☐	☐			
Remedial Action Report	☒	☐	☐			
Response Action Outcome	☒	☐	☐			
Alternative Soil Remediation Standard and/or Screening level Application Form	☒	☐	☐			
Case Inventory Document	☐	☒	☐			

Permit Application – list:	☒	☐	☐			
	☐	☐	☐			
	☐	☐	☐			
	☐	☐	☐			
Radionuclide Remedial Investigation Workplan	☒	☐	☐			
Radionuclide Remedial Investigation Report	☒	☐	☐			
Radionuclide Remedial Action Workplan	☒	☐	☐			
Radionuclide Remedial Action Report	☒	☐	☐			

SECTION D. SITE USE

Current Site Use (check all that apply)

- ☐ Industrial
- ☒ Residential
- ☒ Commercial
- ☐ School or child care
- ☐ Agricultural
- ☐ Park or recreational use
- ☒ Vacant
- ☐ Government
- ☐ Other: _____

Intended Future Site Use, if known (check all that apply)

- ☐ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☒ Park or recreational use
- ☐ Vacant
- ☐ Government
- ☐ Future site use unknown

SECTION E. CASE TYPE: (check all that apply)

- ☐ Child Care Facility
- ☐ School facility
- ☐ School Development Authority (SDA)
- ☐ UST Grant/Loan
- ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☐ Administrative Consent Order (ACO)
- ☐ Remediation Agreement (RA)
- ☐ Brownfield Development Area (BDA)
- ☐ Site is located within an economic development priority area
- ☐ ISRA
- ☐ Regulated Underground Storage Tank (UST)
- ☐ Landfill
- ☐ Federal oversight (RCRA, CERCLA, DOD, TSCA, etc.)
- ☐ Coal Gas
- ☐ Chrome Site (Chromate chemical production waste)
- ☒ Spill Act Discharge
- ☒ Due Diligence with RAO
- ☐ Not Applicable

SECTION F. PUBLIC FUNDS

Did the remediation utilize public funds? ..... ☒ Yes ☐ No

If "Yes," check applicable:

- ☐ UST Grant
- ☐ HDSRF Grant
- ☐ Spill Fund
- ☐ UST Loan
- ☐ HDSRF Loan
- ☐ Schools Development Authority
- ☐ Brownfield Reimbursement Program
- ☐ Landfill Reimbursement Program
- ☒ NJDEP Green Acres Program

SECTION G. GENERAL

1. Was an inspection of the site conducted? ..... ☒ Yes ☐ No ☐ NA
   Date of the inspection 10/17/2011
2. Did the PA identify any areas of concern? ..... ☒ Yes ☐ No ☐ NA
   If "Yes," please complete section H2.
3. What page or appendix is the site map indicating all of the areas of concern located? Figure 1
4. Did the PA identify any current or historic industrial, commercial, agricultural or residential use at the site dating back to the time the site was naturally vegetated? ..... ☒ Yes ☐ No ☐ NA
   If "Yes," please complete section H1.
5. Prior to this submittal have any NFAs/RAOs been issued for this site? ..... ☐ Yes ☒ No
   a. Does the site currently have a Deed Notice? ..... ☐ Yes ☒ No
   b. Does the site currently have a CEA? ..... ☐ Yes ☒ No
   c. Has an order of magnitude evaluation been performed? ..... ☐ Yes ☒ No
6. Is the ground water at the site classified as a Class I Ground Water? ..... ☐ Yes ☒ No
7. Are there potable wells on-site? ..... ☐ Yes ☒ No

8. Has a well search been conducted pursuant to N.J.A.C. 7:26E-1.17? ☐ Yes ☒ No

   a. If "Yes," are there any potable wells within 200' of the AOCs listed in H2 or within 200' of the site boundary? ☐ Yes ☐ No

9. Is an environmentally sensitive natural resource (ESNR) present on, adjacent to, or potentially impacted by the site? ☐ Yes ☒ No

   a. If "Yes," are there visible signs of impact/impairment (e.g., discolored media, stressed vegetation, discharge/spill, seeps, fish kill)? ☐ Yes ☐ No

   b. Provide a scaled figure that documents the presence or absence of an ESNR.

10. Has the site investigation been completed for:

    Specific Areas Of Concern (AOC)s? ☐ Yes ☒ No

    Entire Site based on a PA? ☒ Yes ☐ No

11. Have all of the potentially contaminated AOCs identified in the PA been addressed within the regulatory timeframe? ☒ Yes ☐ No ☐ NA

SECTION H. SITE INFORMATION

H1. Current and Historic Operators/Operations (attach additional sheets as necessary)

Name of Operator	Type of Operation – e.g., dry cleaning, electro-plating, residence	Dates of Operation	
		Start	End
	*** Please See Attached Sheet ***		

H2. Areas of Concern (For PA or PA/SI Report, list each AOC; for SI Report, list only AOCs documented in this submittal.)

	Area of Concern	Currently Exists? ☒ if "Yes"	Formerly Existed? ☒ if "Yes"	Investigation: SI Conducted ☒ if "Yes"	Investigation: RI Proposed ☒ if "Yes"
1	Above ground storage tank and associated piping	☐	☐	☐	☐
2	Area of stressed vegetation	☐	☐	☐	☐
3	Area which receives flood or storm water from potentially contaminated areas	☐	☐	☐	☐
4	Chemical storage cabinet and closet	☐	☐	☐	☐
5	Compressor vent discharge	☐	☐	☐	☐
6	Discharge area pursuant to N.J.A.C. 7:1E	☐	☐	☐	☐
7	Discolored or spill area	☐	☐	☐	☐
8	Drainage swale and culvert	☐	☐	☐	☐
9	Drywell and sump	☐	☐	☐	☐
10	Dumpster	☐	☐	☐	☐
11	Electrical transformer and capacitor	☐	☐	☐	☐
12	Floor drain collection system	☐	☐	☐	☐
13	Former agricultural applied pesticide area	☐	☐	☐	☐
14	Hazardous material storage or handling area	☐	☐	☐	☐
15	Historic fill or any other fill material	☒	☐	☒	☐

16 Hydraulic lift	☐	☐	☐	☐
17 Incinerator	☐	☐	☐	☐
18 Landfill or landfarm	☐	☐	☐	☐
19 Loading and unloading area	☐	☐	☐	☐
20 Non-contact cooling water discharge	☐	☐	☐	☐
21 Open area away from production area	☐	☐	☐	☐
22 Piping, above ground and below ground pumping station, sump and pit	☐	☐	☐	☐
23 Process area sink and piping which receive process waste	☐	☐	☐	☐
24 Rail car	☐	☐	☐	☐
25 Roof leader when process operations vent to the roof	☐	☐	☐	☐
26 Septic system, leachfield or seepage pit	☐	☐	☐	☐
27 Silo	☐	☐	☐	☐
28 Sprayfield	☐	☐	☐	☐
29 Storage pad including drum and/or waste storage	☐	☐	☐	☐
30 Storm sewer and spill containment collection system	☐	☐	☐	☐
31 Storm water detention pond and fire pond	☐	☐	☐	☐
32 Surface impoundment and lagoon	☐	☐	☐	☐
33 Surface water body	☐	☐	☐	☐
34 Underground piping including industrial process sewer	☐	☐	☐	☐
35 Underground storage tank and associated piping	☐	☐	☐	☐
36 Waste pile as defined by N.J.A.C. 7:26	☐	☐	☐	☐
37 Waste water treatment	☐	☐	☐	☐
38 Other:	☐	☐	☐	☐

H3. **Complete this section only if an ISRA waiver was issued or an ISRA NFA was issued under an expedited review or Limited Site Review.**

ISRA Case #	Expedited Review	Limited Site Review	Remediation In Progress Waiver	Regulated UST Waiver	Date	Comments
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		

H4. **REGULATED USTs: Complete if any underground storage tanks (USTs) on site are regulated pursuant to N.J.A.C. 7:14B or if a UST Unknown Source Investigation was conducted pursuant to N.J.A.C. 7:14B-7.4.**

Have all the regulated USTs on site been registered with the Department? ..... ☐ Yes ☐ No

Have all incidents related to regulated USTs been remediated/investigated? ..... ☐ Yes ☐ No

Have any USTs been removed on/after September 4, 1990? ..... ☐ Yes ☐ No

Including this submittal, has an SI/RI report been submitted for all USTs closed on/after September 4, 1990? ..... ☐ Yes ☐ No

Was an Unknown Source Investigation conducted per N.J.A.C. 7:14B-7.4? ..... ☐ Yes ☐ No
If "No" skip to H5.

1) Did the investigation identify contamination? ☐ Yes ☐ No
If "No" skip to H5.

2) Was an ongoing release discovered? ☐ Yes ☐ No
If "No" skip to H5.

3) Was the UST system emptied and taken out-of-service? ☐ Yes ☐ No
(Note: A UST Facility Certification Questionnaire must be submitted to update the registration.)

H5. Compliance Check (Complete only if sampling of soil and/or ground water was conducted)

a. Identify the media if impacted above applicable standards/screening levels (check all that apply):
☒ soil ☒ ground water

b. Type of contamination in soil and ground water above applicable standards/screening levels (check all that apply):

Soil	Ground Water	
☐	☐	Volatile Organics
☒	☒	Polycyclic Aromatic Hydrocarbons(PAHs)
☐	☐	Acid Extractables
☐	☐	Base Neutrals (non-PAHs)
☒	☒	Metals
☐	☐	Pesticides
☐	☐	PHC
☐	☐	PCBs
☐	☐	Chromium
☐	☐	Dioxin
☐	☐	Mercury
☒	☒	Arsenic
☐	☐	Perchlorate, RDX, TNT, etc.
☐	☐	Other, specify _____

c. For all AOCs at which a SI was conducted, but no RI/RA is proposed:

1) Are any soil analytical results greater than the most stringent Direct Contact Soil Remediation Standards (DCSRS)? ☒ Yes ☐ No

2) Are any soil analytical results greater than the default Impact to Ground Water Soil Screening Levels (IGWSSL)? ☒ Yes ☐ No

3) Are any ground water analytical results greater than the Ground Water Quality Standards (GWQS)? ☒ Yes ☐ No ☐ NA

4) Are any Method Detection Limits (MDLs) greater than the applicable soil and/or ground water standards or screening levels? ☐ Yes ☒ No

5) Are any surface water analytical results greater than the most stringent, both human and ecological, Surface Water Quality Standards? ☐ Yes ☐ No ☒ NA

6) Are any sediment analytical results above the screening levels? ☐ Yes ☐ No ☒ NA

7) Are any analytical results above the vapor intrusion screening levels? ☐ Yes ☒ No ☐ NA

8) Did the SI document, via a background investigation, outside the influence of onsite AOCs and operational areas, determine that:

a) contamination is migrating onto this site per N.J.A.C. 7:26E-3.7(g)? ☐ Yes ☒ No ☐ NA

b) contamination is naturally occurring per N.J.A.C. 7:26E-3.10? ☐ Yes ☒ No ☐ NA

9) Contamination is associated with an ongoing ISRA remediation. ☐ Yes ☒ No ☐ NA

d. Have Alternative Remediation Standards (ARS) been utilized for Inhalation and/or Ingestion/Dermal pathways? ☐ Yes ☒ No

e. Have any site specific Impact to Groundwater Soil Remediation Standards (IGWSRS) been established? ☐ Yes ☒ No

f. Complete if "Yes" to question b.) 1-4, c. or d. List affected AOC(s) below; attach additional sheets if necessary.

Area of Concern (see H2 above)	Exceeds DCSRS	Exceeds IGWSSL	Exceeds GWQS	MDLs > Standards	ARS	Site Specific IGWSRS	Comments
Potential USTs	☒	☒	☒	☐	☐	☐	Soil and G.W. contaminant
	☐	☐	☐	☐	☐	☐	due to AOC-1 historic fill
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	

	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	

SECTION I. ALTERNATIVE STANDARD / VARIANCES

Alternative remediation standard

Proposing an alternative remediation standard pursuant to N.J.A.C. 7:26D-7.4, or alternate vapor intrusion screening level, check here ☐ and attach the Alternative Soil Remediation Standard and/or Screening Level Application Form as an addendum.

A site-specific screening level was developed for the evaluation of the VI pathway ..... ☐ Yes ☒ No

Variance from regulations

If the Licensed Site Remediation Professional has varied from the Technical Rules, provide the citation(s) from which the remediation varied and the page(s) in the attached document where the rationale for the variance is provided.

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

SECTION J. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: The City of Hoboken

Representative First Name: Quentin Representative Last Name: Wiest

Title: Business Administrator Business Affiliation: _____

Phone Number: (201) 420-2059 Ext: _____ Fax: (201) 420-9513

Mailing Address: 94 Washington Street

City/Town: Hoboken State: New Jersey ZIP Code: 07030

Email Address: qwiest@hobokennj.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Quentin Wiest Date: 8-7-12

Print Name & Title: Quentin Wiest, Business Administrator **No Changes Since Last Submittal** ☐

ECTION K. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

SRP ID Number: 550658

irst Name: Stephen Last Name: Boswell

hone Number: (201) 373-8905 Ext: Fax: (201) 641-1757

Mailing Address: 330 Phillips Avenue

City/Town: South Hackensack State: New Jersey Zip Code: 07606

Email Address: environmental@boswellengineering.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Stephen T. Boswell Date: 8/7/2012

LSRP Name/Title: Stephen T. Boswell, Ph.D., P.E., LSRP/President, CEO **No Changes Since Last Submittal** ☐

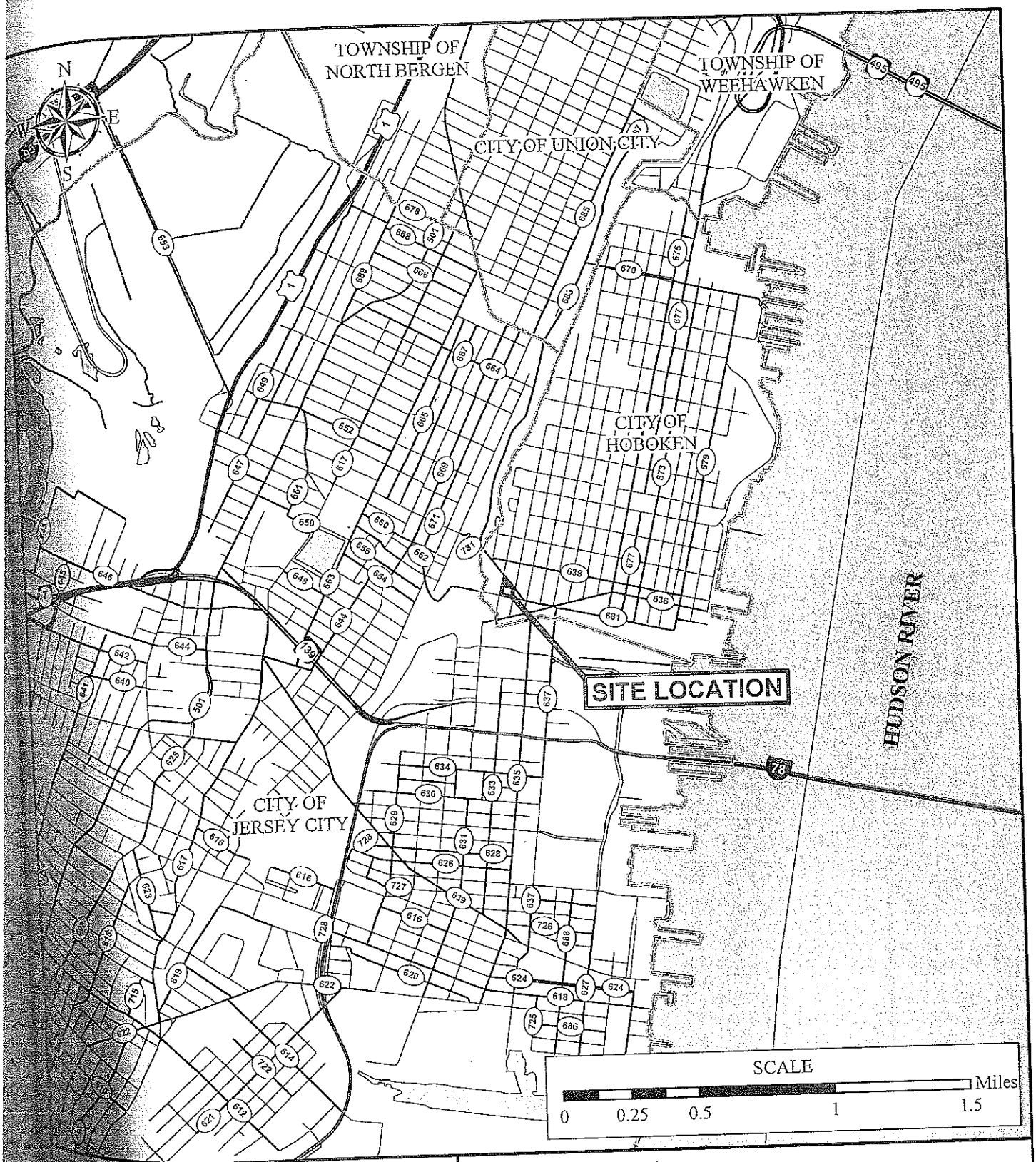
Company Name: Boswell McClave Engineering

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

APPENDIX B

Site Location Maps



LEGEND

- SITE BOUNDARY
- MUNICIPAL BOUNDARY
- WATER BODY
- ARTERIAL STREET
- COUNTY ROAD
- STATE HIGHWAY
- FEDERAL HIGHWAY
- INTERSTATE

NJ COUNTY ROADS, 2010
NJ COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJ WATER BODIES, 2004

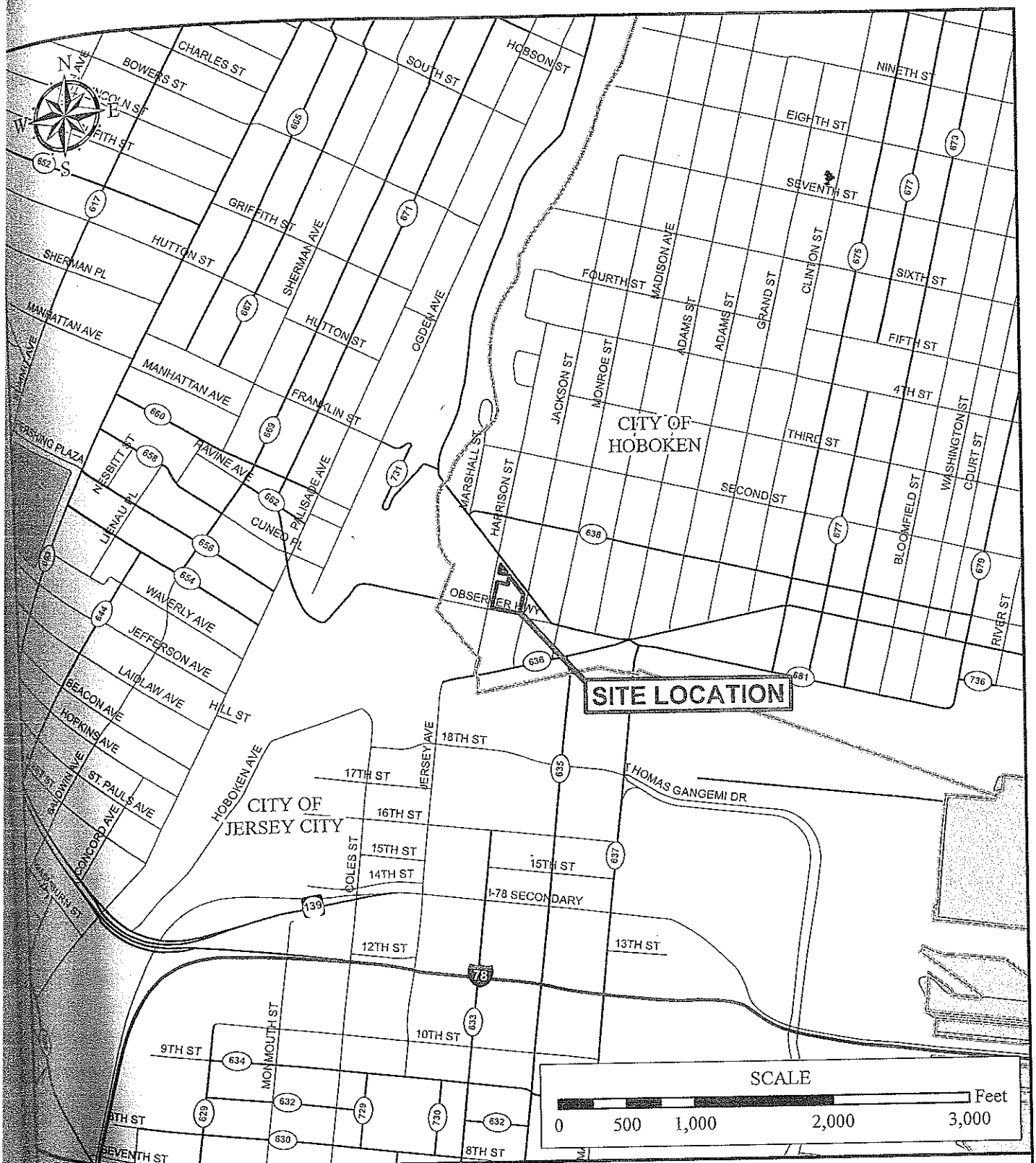
LOCATION (-) MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1/2 MILE DATE: SEPT. 2011	JOB NO. HO-458 FIGURE LOCATION (-)



LEGEND

- SITE BOUNDARY
- MUNICIPAL BOUNDARY
- WATER BODY
- ARTERIAL STREET
- COUNTY ROAD
- STATE HIGHWAY
- FEDERAL HIGHWAY
- INTERSTATE

NJ COUNTY ROADS, 2010
COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJGIS WATER BODIES, 2004

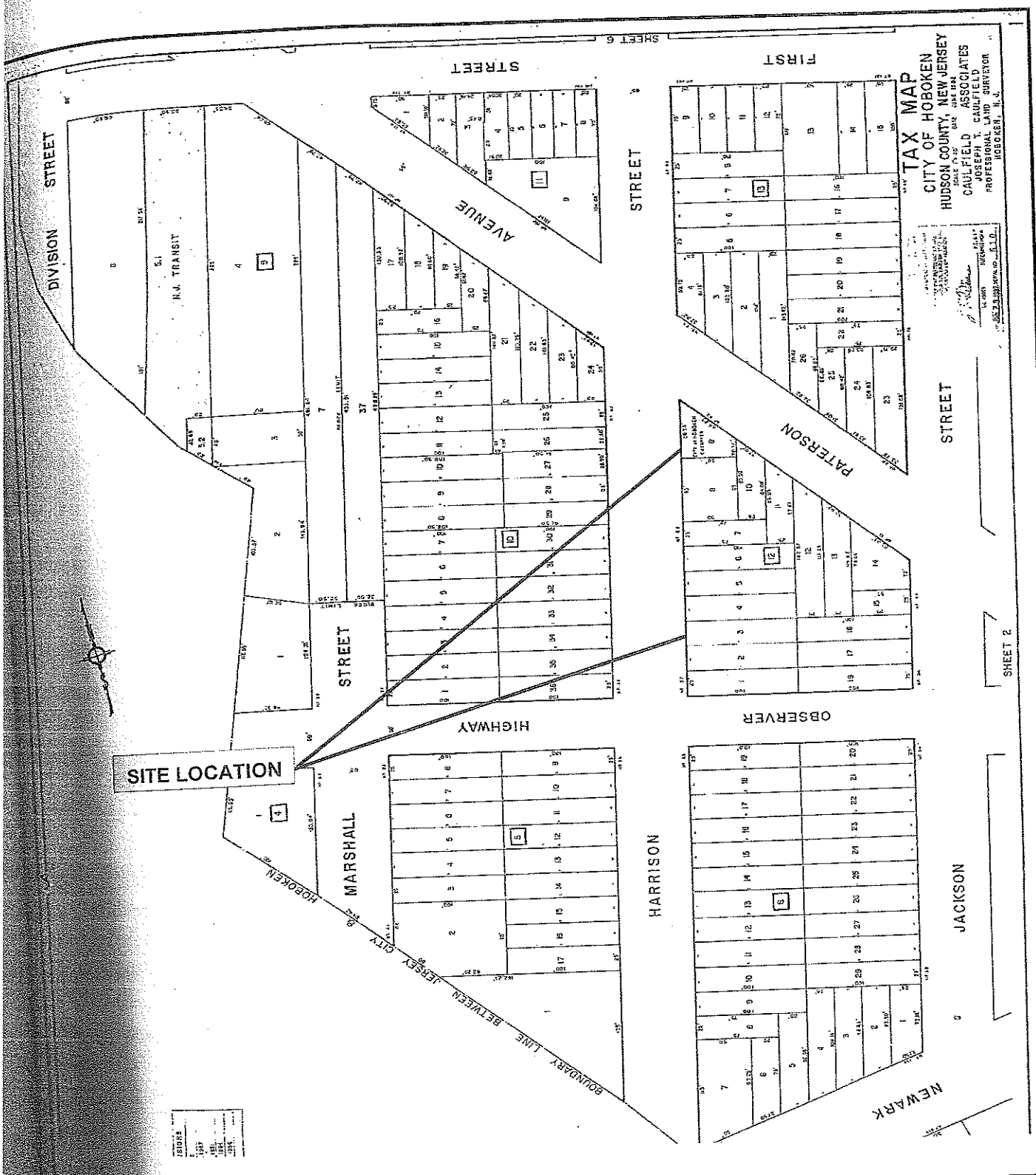
LOCATION (+) MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1,000' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE LOCATION (+)



PARCEL MAP ONLINE v1.0.4

TAX MAP
BLOCK 12 LOTS 1-18

CITY OF HOBOKEN TAX MAP
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

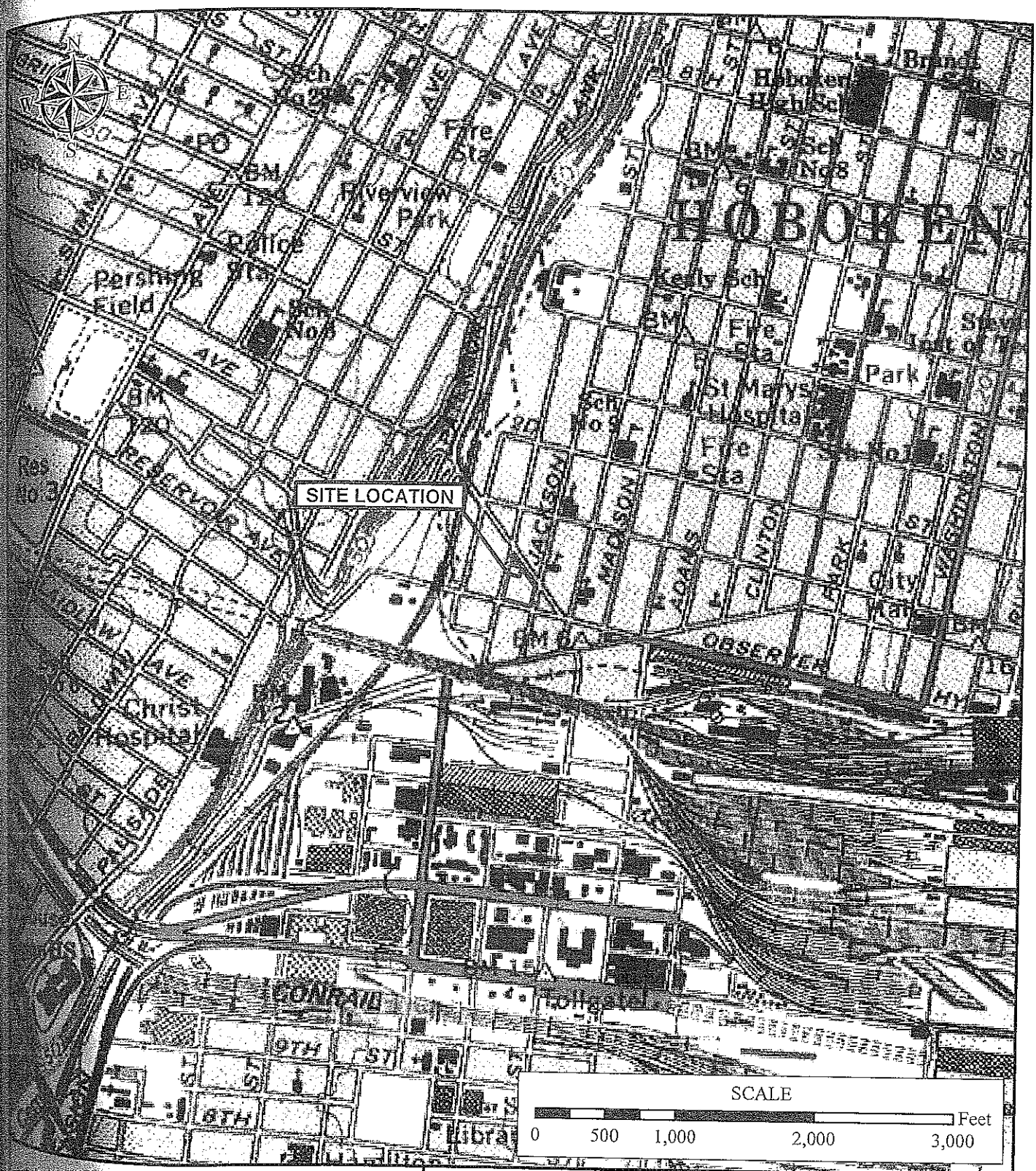
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: CEA	DATE: JUNE 2012	TAX

APPENDIX C

United States Geological Survey (USGS) Topographic Quadrangle Map



SITE BOUNDARIES

SOURCE: USGS JERSEY CITY QUADRANGLE TOPOGRAPHIC MAP

NJ STATE PLANE COORDINATES:

EASTING: 619,035
NORTHING: 694,045

U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1,000' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE USGS

APPENDIX D

NJDEP NJ Geological Survey (NJGS) Bedrock Geology Map/ NJDEP NJGS Surficial Geology Map

LEGEND

SITE BOUNDARY	Jd	Diabase - Jurassic Period
NORMAL FAULT	Trl	Lockatong Formation - Triassic Period
U UPTHROWN SIDE	Trs	Stockton Formation - Triassic Period
D DOWNTHROWN SIDE	CZm	Manhattan Schist - Cambrian Period
THRUST FAULT	CZs	Serpentinite - Cambrian Period

SOURCE: NJDEP NJGS BEDROCK GEOLOGY OF NEW JERSEY, 2007
NJDEP ORTHOPHOTOGRAPHY (disk 11), 2007

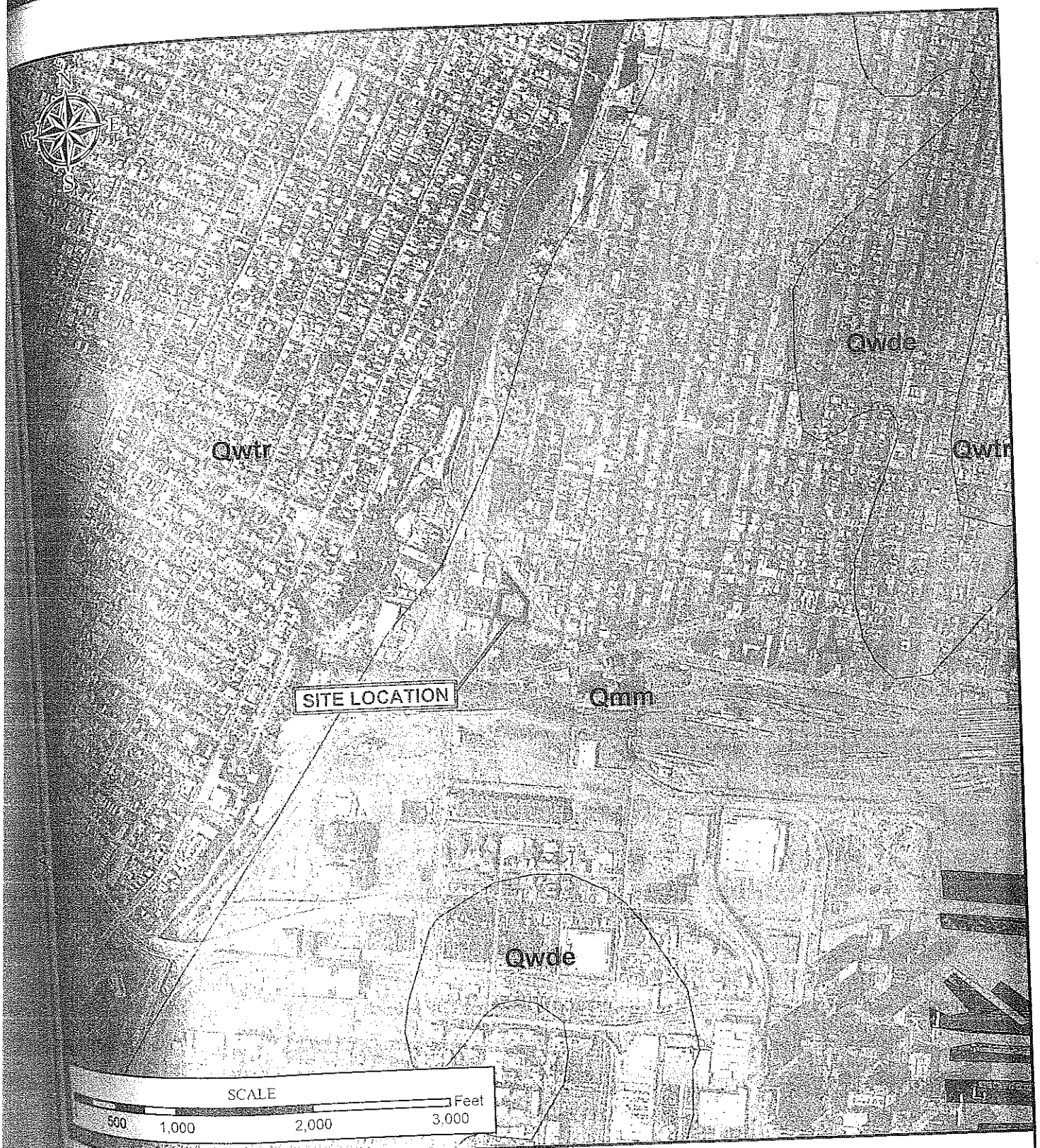
NJ GEOLOGICAL SURVEY BEDROCK GEOLOGY MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: CEA	SCALE: 1" = 1,000' DATE: JUNE 2012	JOB NO. HO-458 FIGURE GEOLOGY



LEGEND

- Site Boundaries
- Rahway Till - Late Pleistocene, Late Wisconsinan
- Late Wisconsinan Glacial Delta Deposits - Late Pleistocene, Late Wisconsinan
- Salt Marsh and Estuarine Deposits - Holocene

NJDEP NJGS SURFICAL GEOLOGY OF NEW JERSEY, 2004
NJDEP ORTHOPHOTOGRAPHY (disk 11), 2007

NJ GEOLOGICAL SURVEY SURFICIAL GEOLOGY MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: CEA	SCALE: 1" = 1,000' DATE: JUNE 2012	JOB NO. HO-458 FIGURE SURFICIAL GEO

APPENDIX E

Photodocumentation

BOSWELL MCCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

SITE NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
Block 12 Lots 1-7, 9 & 11-18	City of Hoboken, Hudson County, New Jersey	Site Investigation Report	HO-458

Photo No. 1.

Description:
View of southwest portion of Block 12. The majority of the vehicles were moved for the geophysical investigation except for those shown.

Photo No. 2.

Description:
Northern half of Lot 12 some concrete blocks and cobbles visible.

BOSWELL MCCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

SITE NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
Block 12, Lots 1-7, 9 & 11-18	City of Hoboken, Hudson County, New Jersey	Site Investigation Report	HO-458

Photo No. 3.

Description:
Thick vegetation at the southern end of Lot 12 limited the geophysical investigation in this area. Only a general survey (magnometer sweep) was performed.

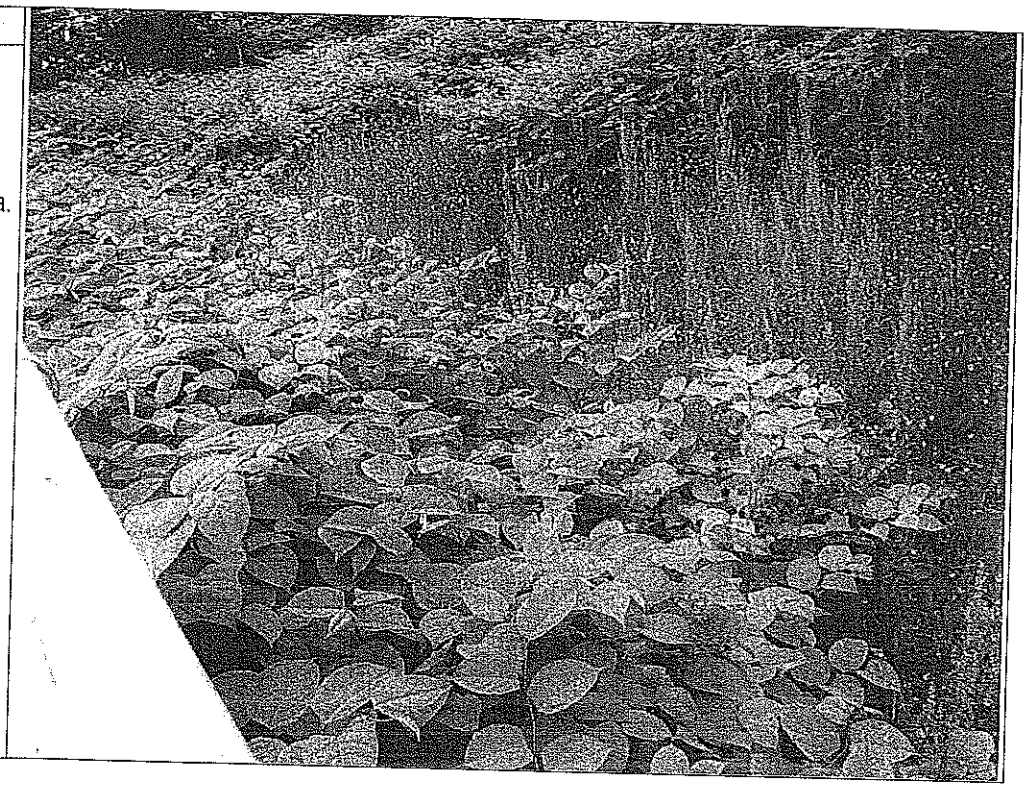
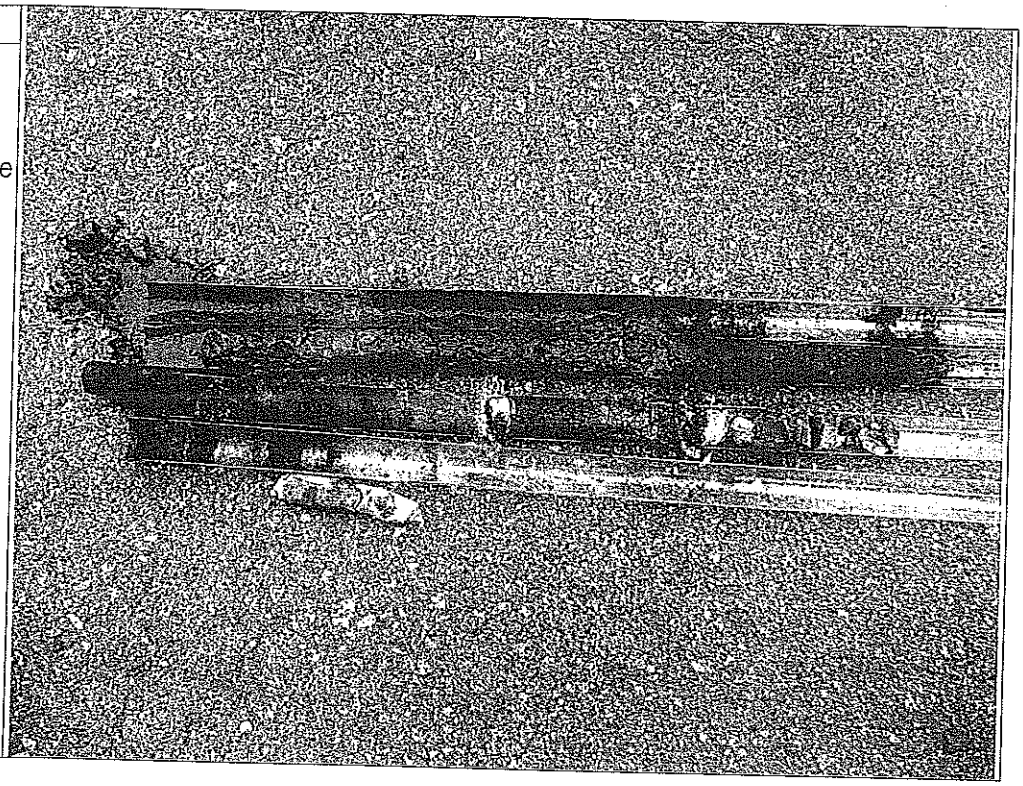


Photo No. 4.

Description:
Soil boring SB-1 was advanced to a depth of 15' below ground surface (bgs) in Lot 18. Historic fill containing concrete, brick and wood was identified from 0' to 5' bgs and dredge material from 5' to 15' bgs.



BOSWELL McCLAVE ENGINEERING

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SITE PHOTOGRAPHS

SITE NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
Block 12, Lois 1-7, 9 & 11-18	City of Hoboken, Hudson County, New Jersey	Site Investigation Report	HO-458

Photo No. 5.

Description:
Soil boring SB-2 was advanced to 10' bgs in Lot 16. Historic fill containing brick, coal and ash was detected from 3' to 8' bgs.

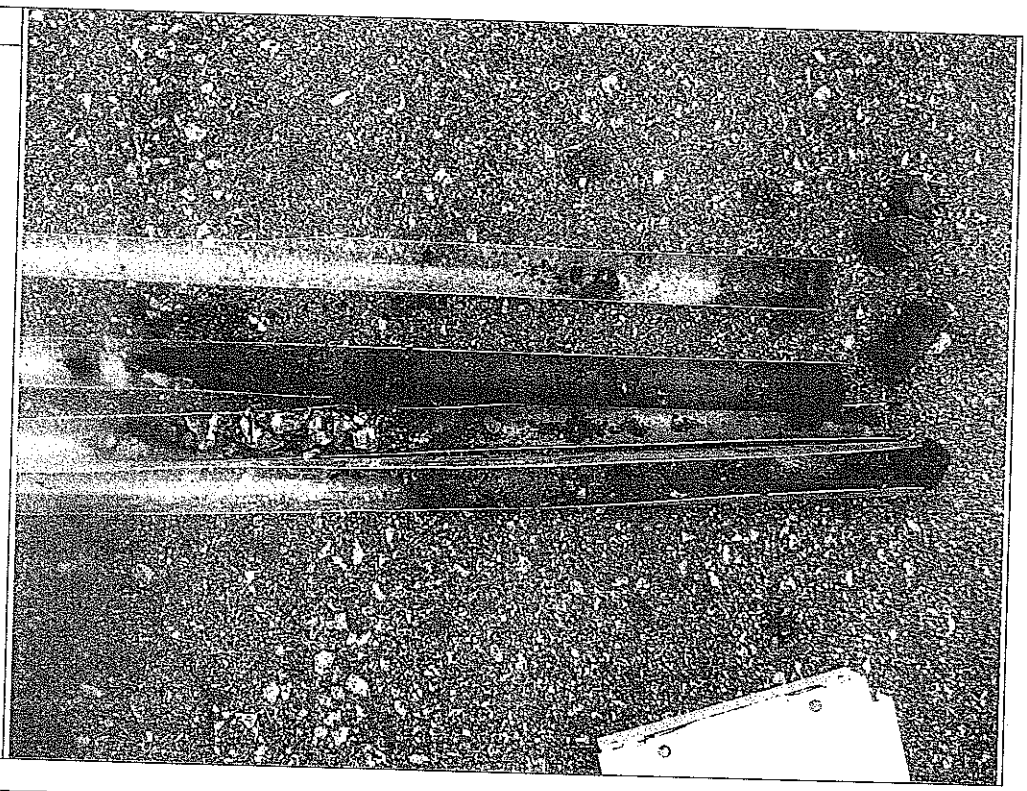
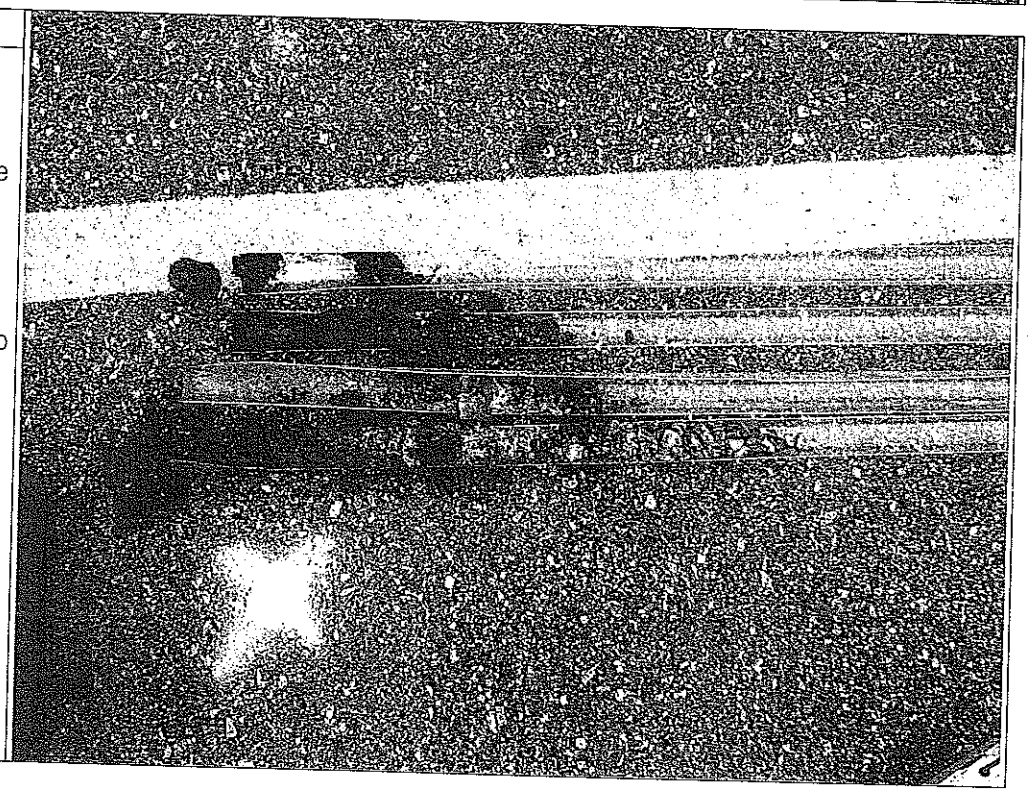


Photo No. 6.

Description:
Soil boring SB-3 was advanced to a depth of 10' bgs in Lot 14 outside of a former building foundation. Historic fill including ground brick, coal, ash, and concrete were observed from 1' to 8' bgs.



BOSWELL McCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

SITE LOCATION: City of Hoboken, Hudson County, New Jersey	PROJECT NAME: Site Investigation Report	PROJECT NO.: HO-458

Block 12, Lots 1-7, 9 & 11-18

Photo No. 7.

Description:
Soil boring SB-3 was advanced to a depth of 5' bgs at a geophysical anomaly inside of a building foundation. Historic fill including crushed brick, mortar, coal and glass were identified from 1' to 5' bgs.

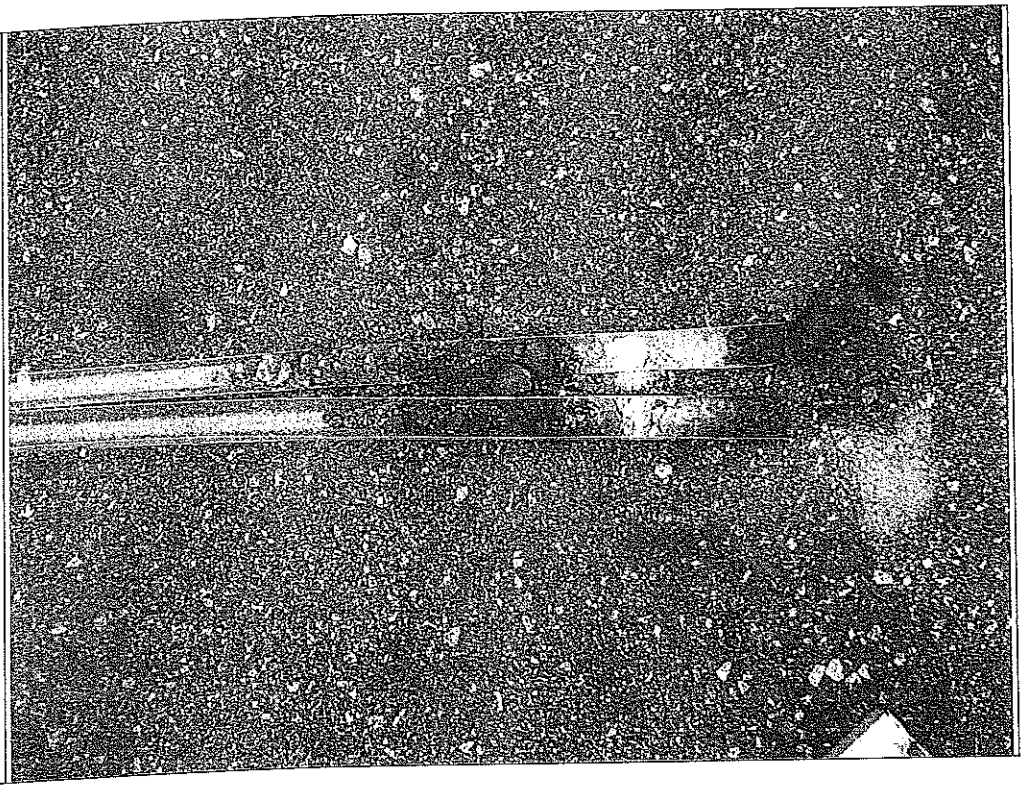
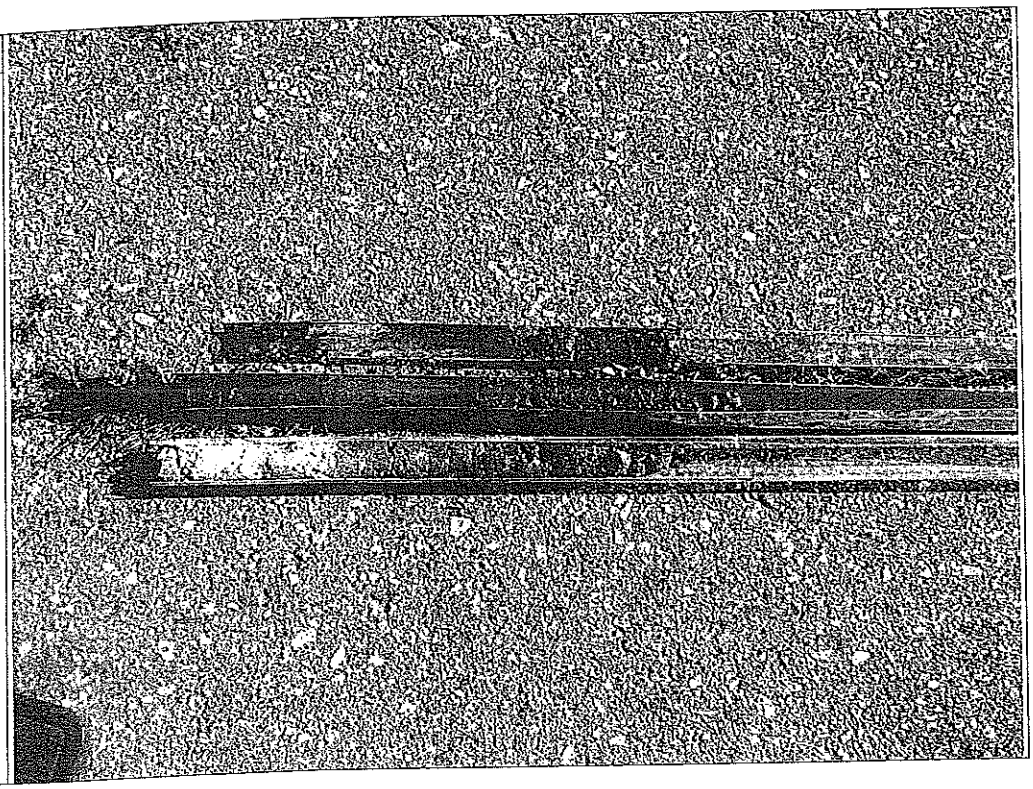


Photo No. 8.

Description:
Soil boring SB-5 was advanced to a depth of 10' bgs in Lot 4. Historic fill including brick and concrete was identified from 2' to 5' bgs.



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SITE PHOTOGRAPHS

NAME: x 12, Lots 1-7, 9 & 11-18	SITE LOCATION: City of Hoboken, Hudson County, New Jersey	PROJECT NAME: Site Investigation Report	PROJECT NO.: HO-458

Photo No. 9.

Description:
Soil boring SB-6 was advanced to a depth of 10' bgs in Lot 2. Historic fill including coal, brick, concrete, glass and metal was identified from 1' to 10' bgs.

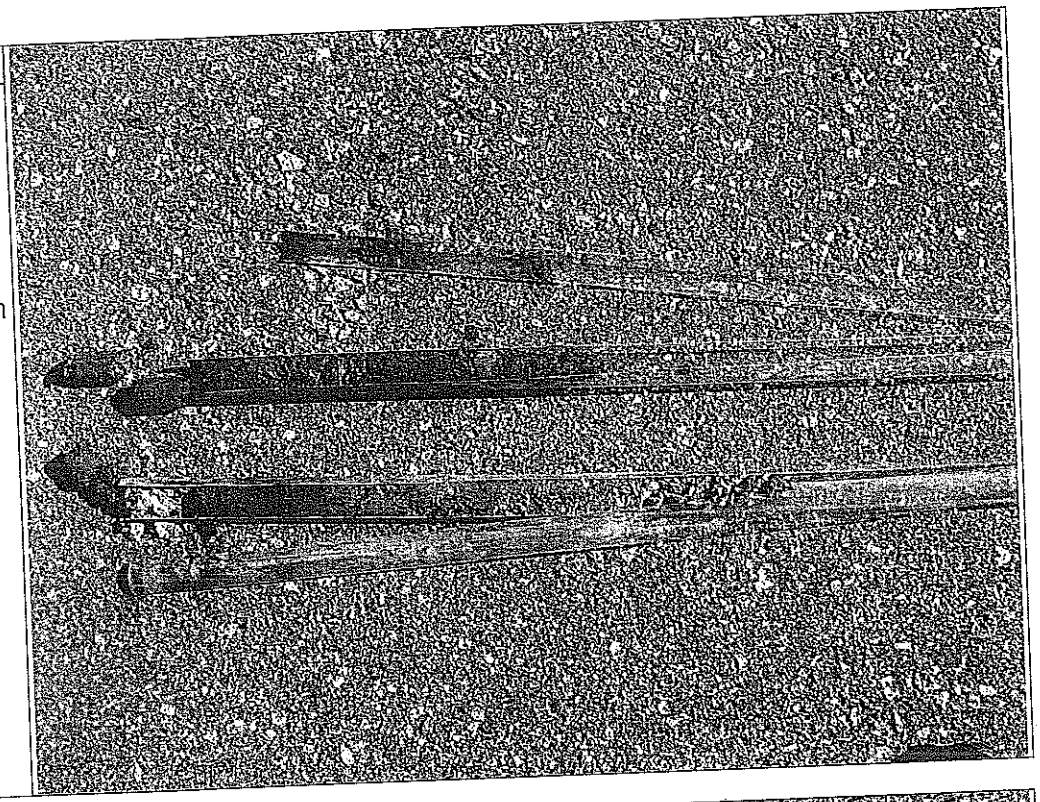
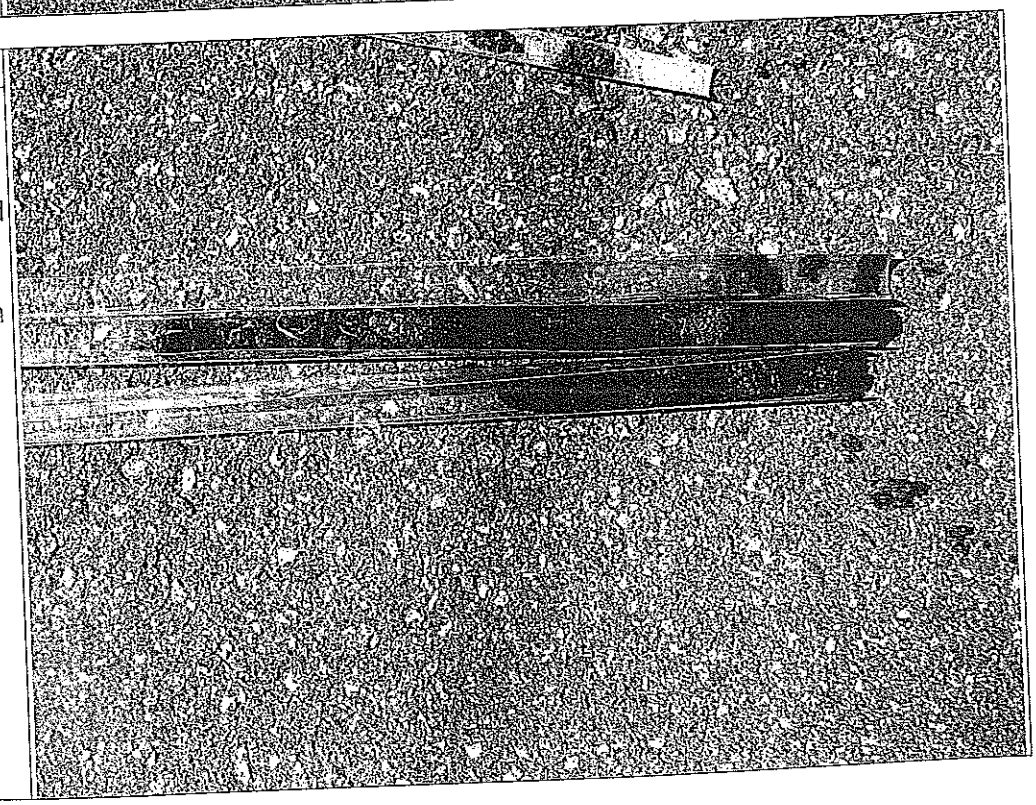


Photo No. 10.

Description:
Soil Boring SB-7 was advanced to a depth of 10' bgs in the City owned Lot 9. Historic fill including coal, ash and wood was identified from 0' to 4' bgs.



APPENDIX F

Soil Boring Logs

Boring No	SB-1	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	TWP	Construction	15' of slotted 2" diameter PVC Well Point	PID (Background) 0.4

Remarks: Historic fill soil sample SB-1 and duplicate sample SB-11 were collected from 1.5' - 2.0' bgs at 10:00 and 10:05. Groundwater sample TWP-1 and duplicate sample TWP-11 were collected at 5.0' bgs at 10:20 and 10:25.

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
		2" asphalt, concrete, brick, brown silt		Historic Fill
		Dark brown silt and some concrete	SB-1/SB-11	
		Dark brown clay with rocks		
		Brown clay and gravel		
		Black clay with some wood		
		Black silty clay with small pebbles	TWP-1/ TWP-11	
		Black silt and clay with gravel and wood		
	0.4	Dense clay (black)		
		Clay and silt		
		Very wet black clay and silt with some fine gravel		
		End of Boring		

Boring No	SB-2	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	No sample collected			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	2" asphalt, silt, gravel, clay		
2'				
3'		Silt, gravel, clay, some brick		
4'		Concrete with black clay		Historic Fill
5'		Black to brown clay and coal		
6'		Black silty clay with coal		
7'		Silty clay with ash		
8'		Silty clay with brick and stone		
9' ▼		Sand containing brick, stone, coal		
10'		Brown/green clay		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-3	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	Poor recovery from 5'-10'; Historic fill soil sample SB-3 collected from 4' to 4.5' bgs at 11:30			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	3" asphalt, stone subbase		
2'		Ground brick		Historic Fill
3'				
4'				
5'		Coal mixed with ash and brick	SB-3	
6'		Coal with organics		
7'		Brick and concrete		
8'		Black sandy gravel		
9'		Red-brown silty clay		
10'		Brown silty clay		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-4	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	Boring advanced inside of former building foundation and geophysical anomaly, no sample collected.			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	2" asphalt, gravel		
2'		Crushed brick		Historic Fill
3'				
4'		Mortar mixed with concrete		
5'		Gravel with sand and coal, wood, glass		
6'		**End of Boring**		
7'				
8'				
9'				
10'				
11'				
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-5	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.5
Remarks	No sample collected			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1	0.5	2" asphalt; brown quartz sand with stone		
2		Brown quartz sand with stone, some brick		Historic Fill
3		Brown clay with denatured concrete		
4				
5		Dark brown gravel and wood		
6				
7		Dark brown clay		
8				
9		Gravels and organics		
10		**End of Boring**		
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Boring No	SB-6	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.5
Remarks	Historic fill soil sample SB-6 collected from 9' - 9.5' bgs at 9:30			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.5	6" asphalt; light gray concrete rubble		
2'		Silty sand with fine ground coal, brick, concrete		Historic Fill
3'				
4'		Tan-brown silty clay		
5' ▼		White quartz sand to brown clay		
6'		Brown silty sand with gravel, coal, and wood		
7'				
8'		Ground brick and gravel		
9'				
10'		Brown to green silty clay with coal, glass, metal	SB-6	
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-7	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.5
Remarks	Boring advanced inside of Lot 9. Low recovery from 5' to 10'. Historic Fill Soil Sample SB-7 collected from 2.5' to 3.0' interval at 9:45			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.5	6" grass and topsoil; brown silty clay with some coal		Historic Fill
2'				
3'		Brown silty clay with coal and ash and wood	SB-7	
4'		Light brown sandy gravel with tree roots		
5'		Black silty clay		
6'				
7'		Light brown sandy clay		
8' ▼				
9'		Light brown clay		
10'		Loose gravel (diabase)		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

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APPENDIX G

Geophysical Survey Report

Infrared Services, Inc.
Established 1977

150 River Road L-4
P.O. Box 485
Montville, NJ 07045
(973) 263-1177 Phone
1-866-204-5913 Fax
request@infraredservicesinc.com

July 5, 2012

Mr. Chris Colabaugh
Boswell Engineering
330 Phillips Ave.
South Hackensack, NJ 07606

Phone: (201) 641-0770
E-mail: ccolabaugh@boswellengineering.com

RE: GEOPHYSICAL SURVEY TO ATTEMPT TO LOCATE AND MARK OUT THE LOCATION OF POSSIBLE UNDERGROUND STORAGE TANKS AND/OR PIPING

Dear Mr. Colabaugh,

The following survey was conducted on May 14 and 17, 2012:

LOCATION: LAZ CAR PARKING LOT
59 PATERSON AVE.
HOBOKEN, NJ

METHOD: GEOPHYSICAL SURVEY – GROUND PENETRATING RADAR AND RADIO DETECTION

A 400 MHZ transducer emits pulsating radar through to the subsurface as it is moved across the surface material. At the interface of subsurface objects, some of the radar is reflected to the surface, picked up by the transducer, processed and printed. Operator conclusions of radar and radio detection results are based on the printed profile and radio signal. Approximate locations of subsurface objects are spray painted on the surface.

Please be advised that the services and resulting interpretations provided by Infrared Services, Inc. shall be performed with our best professional efforts. Because depth of penetration is dependent upon the electrical properties of the material(s) probed and interpretations are opinions based on inference from acquired radar, radio detection, and/or other data, Infrared Services, Inc. does not guarantee the desired penetration depth or accuracy or correctness of interpretations and will not accept liability or responsibility for any loss, damages, or expenses that may be incurred or sustained by any services or interpretations performed by Infrared Services, Inc.

Boswell Engineering
July 5, 2012

SCOPE: TO PROVIDE A GROUND PENETRATING RADAR AND RADIO DETECTION SURVEY TO ATTEMPT TO LOCATE AND MARK OUT THE LOCATION OF POSSIBLE UNDERGROUND STORAGE TANKS AND/OR PIPING.

RESULTS: PARKING LOT AREA:
A SURVEY WAS CONDUCTED WITHIN THE FENCED PARKING LOT. THE SUBSURFACE MATERIAL HAD POOR GPR PENETRATION. THE GPR PENETRATION WAS 1-2 FEET DEEP. THE SUBSURFACE OR BACKFILL MATERIAL MAYBE CONDUCTIVE OR CAUSING REFRACTION.
PIPING WAS LOCATED FROM THE ELECTRIC ACCESS GATE TO AN OVERHEAD ELECTRIC POWER SOURCE ON THE FENCE.
NO OTHER PIPING WAS LOCATED IN THE SURVEY AREA

GRASS ISLAND AREA (OFF PATERSON STREET)
THE GRASS AND TREE COVERED ROADSIDE ISLAND WAS CLEARED OF UNDERGROUND UTILITIES FOR SOIL BORING.

THE SURVEY WAS CONDUCTED AT 3-FOOT GRID PATTERNS. THE MAXIMUM DEPTH OF PENETRATION OF THE GROUND PENETRATING RADAR WAS 1 FEET-2 FEET.

Please do not hesitate to contact me if you have any further questions.

Sincerely,

Gary R. Kayhart
INFRARED SERVICES, INC.

Attachment

PROJECT: BOSWELL ENGINEERING
PARKING LOT
59 PATERSON ROAD
HOBOKEN, NJ

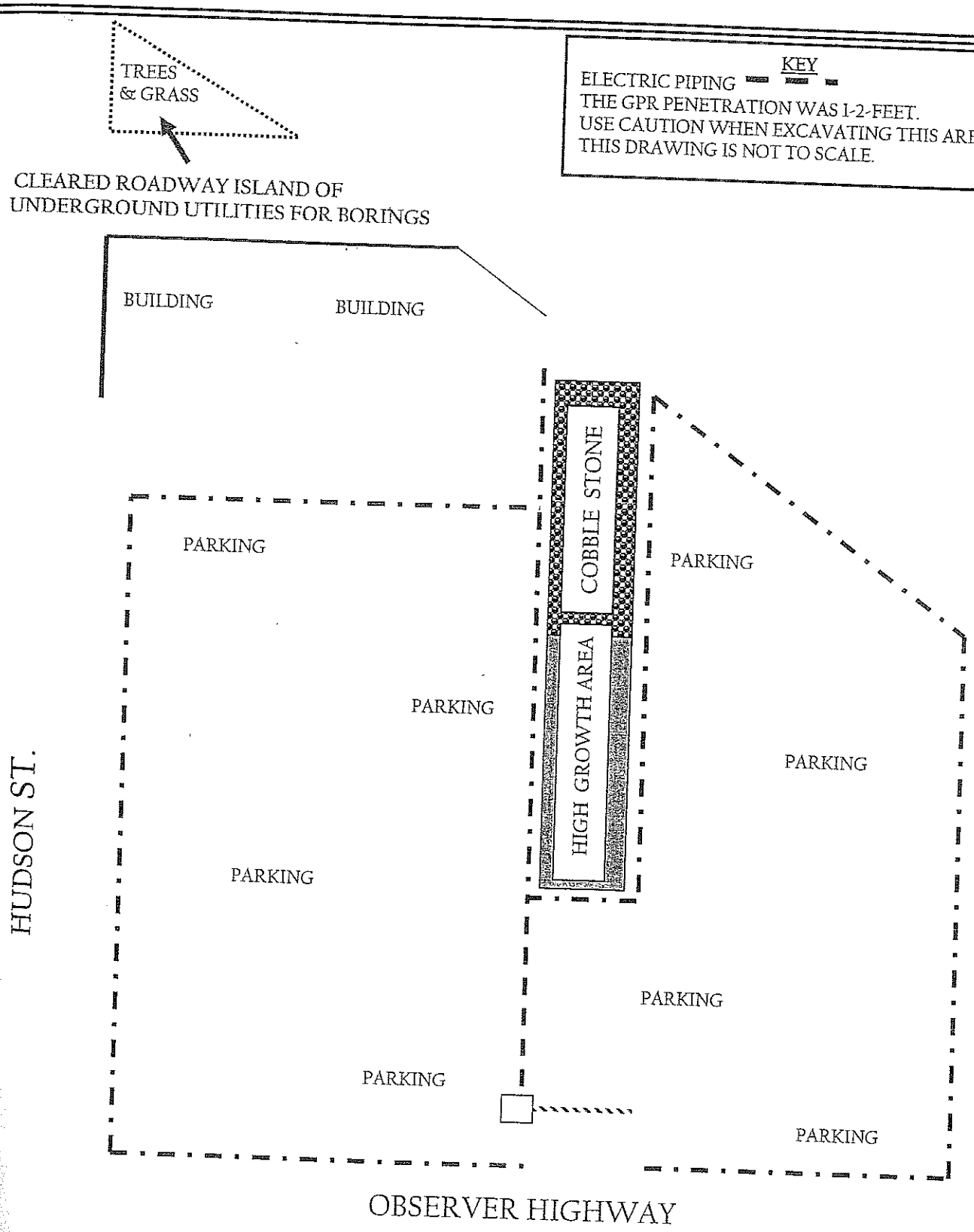
SITE MAP

INFRARED SERVICES INC.
SUITE L-4
150 RIVER ROAD
MONTVILLE, NJ 07045

N

KEY

ELECTRIC PIPING
THE GPR PENETRATION WAS 1-2-FEET.
USE CAUTION WHEN EXCAVATING THIS AREA.
THIS DRAWING IS NOT TO SCALE.



APPENDIX H

Sampling Parameter Summary Table

SAMPLING PARAMETER SUMMARY TABLE

BLOCK 12, LOTS 1-7, 9, AND 11-18
CITY OF HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

Analysis	Method	Matrix	Container	Preservative	Holding Time	No. of Sample
SOIL						
Total Extractable Petroleum Hydrocarbons (EPH) Category-2 Non-Fractionated	SW 846 3545	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	1
TCL Volatile Organic Compounds +15*	SW 846 5035/8260B	Soil	3 x Encore	4° C	48 hours to lab 14 day extract	1
TCL Polycyclic Aromatic Hydrocarbons (PAH)	SW 846 3550B/8270C	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	5 (1)
TCL Semi-Volatile Organic Compounds + 25 *	SW 846 3550B/8270C	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	1
Target Analyte List (TAL) Metals *	SW 846 3050/6010	Soil	1x8 ounce glass	4° C	180 Days	5 (1)
TCL Polychlorinated Biphenyls (PCB) *	SW 846 3545/8082	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	1
GROUNDWATER						
Volatile Organic Compounds (VOA TCL)*	SW 846 8260B	Aqueous	3x40 ml glass	HCl, pH<2 4° C	14 Days	3 (1)(2)
Semi-Volatile Organic Compounds (ABN TCL)*	SW 846 3550B/8270C	Aqueous	2x1,000 ml glass	4° C	7 Days (extract) 40 Days (analyze)	2 (1)
TAL Metals*	SW 846 3050/6010	Aqueous	1x500 ml poly	HNO_3 to PH<2 4° C	6 Months	2 (1)
Polychlorinated Biphenyls (PCB) *	SW 846 8082	Aqueous	2x1,000 ml glass	4° C	7 Days (extract) 40 Days (analyze)	2 (1)

NOTES:

(1) = Includes one (1) QA/QC duplicate sample
(2) = Includes one (1) QA/QC trip blank
TAL = Target Analyte List Metals
TCL = Target Compound List
ABN = Acid and Base Neutral extractables
* = Included with full TCL+/TAL analysis
SW 846 = Test Methods for Evaluating Solid Waste, 3rd Edition

APPENDIX I

Analytical Results Summary Tables

ANALYTICAL RESULT SUMMARY TABLE

SOIL SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

Sample Number	SB-1	SB-3	SB-6	SB-7	NJDEP Soil Remediation Standards		
Lab ID	JB6521-4	JB6521-6	JB6934-1 & JB6934-1A	JB6934-2, JB6934-2A & JB6934-2R			
Sampling Date	5/14/2012	5/14/2012	5/17/2012	5/17/2012			
Matrix	Soil	Soil	Soil	Soil			
Depth	1.5'-2.0'	4.0'-4.5'	9.0'-9.5'	2.5'-3.0'			
PID	0.4 ppm	0.4 ppm	0.5 ppm	0.5 ppm			
Sampler	MF, CC	MF, CC	MF, CC	MF, CC			
Sampling Time	10:00	11:30	9:30	9:45			
Units	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)			
Analytical Parameter							
NJ Category-2 Non-Fractionated Extractable Petroleum Hydrocarbons (EPH)					RDC	NRDC	IGW
EPH (C9-C28)	~	~	~	203	-	-	-
EPH (>C28-C40)	~	~	~	220			
Total EPH (C9-C40)	~	~	~	423	1,700 / 5,100 / 8,000*		
Volatile Organic Compounds (TCL VOA)							
Benzene	~	~	~	0.0013 J	2	5	0.005
Toluene	~	~	~	0.00067 J	6,300	91,000	4
Tentitively Identified Compounds (TICs) Volatiles	~	~	~	ND	-	-	-
Semi-volatile Organic Compounds (TCL ABN)**							
Acenaphthene	4.12	0.0503	0.0471	ND	3,400	37,000	74
Acenaphthylene	9.38	0.0855	ND	ND	-	300,000	-
Anthracene	26.5	0.186	0.119	0.0217 J	17,000	30,000	1,500
Benzo(a)anthracene	**56.8**	**0.696**	0.25	0.0721	0.6	2	0.5
Benzo(a)pyrene	**51.7**	**0.615**	**0.269**	0.0693	0.2	0.2	0.2
Benzo(b)fluoranthene	**59.2**	**0.801**	0.224	0.0886	0.6	2	2
Benzo(g,h,i)perylene	22.7	0.364	0.135	0.084	380,000	30,000	-
Benzo(k)fluoranthene	**25**	0.344	0.172	0.0641	6	23	16
Carbazole	~	~	~	0.0480 J	24	96	-
Chrysene	**52.2**	0.705	0.225	0.0927	62	230	52
Dibenzo(a,h)anthracene	**9.88**	0.129	0.0633	0.0268 J	0.2	0.2	0.5
Diethyl phthalate	~	~	~	0.0808 J	49,000	550,000	57
bis(2-Ethylhexyl)phthalate	~	~	~	0.142	35	140	790
Fluoranthene	114	1.59	0.389	0.134	2,300	24,000	840
Fluorene	14.8	0.04	0.0481	ND	2,300	24,000	110
Indeno(1,2,3-cd)pyrene	**24.3**	0.325	0.139	0.0585	0.6	2	5
2-Methylnaphthalene	~	~	~	0.0763 J	230	2,400	5
Naphthalene	3.35	0.0208 J	0.0150 J	ND	31	340	0.2
Phenanthrene	73.9	0.834	0.345	0.0892	-	300,000	-
Pyrene	85.9	1.64	0.395	0.152	1,700	18,000	550
Tentitively Identified Compounds (TICs) Semi-Volatiles	~	~	~	1.45 J	-	-	-
TAL Metals							
Aluminum	**7,820**	**6,440**	**9,840**	**5,620**	78,000	-	3,900
Antimony	**12.5**	<2.4	<2.5	<2.2	31	450	6
Arsenic	**43**	10.2	7.2	18	19	19	19
Barium	346	108	95	204	16,000	59,000	1,300
Beryllium	0.4	0.33	**0.81**	**0.72**	16	140	0.5
Cadmium	**1.7**	<0.60	<0.61	**2.7**	78	78	1
Calcium	10,800	12,400	10,200	5,040	-	-	-
Chromium (total)	31	8.7	22.5	39.7	-	-	-
Cobalt	10.3	<6.0	7.1	<5.6	1,600	590	59
Copper	197	45.6	32.9	90.6	3,100	45,000	7,300
Iron	24,400	10,000	17,900	21,300	-	-	-
Lead	**866**	**157**	**200**	**678**	400	800	59
Magnesium	5,360	1,140	4,530	1,500	-	-	-
Manganese	**181**	**129**	**501**	**158**	11,000	5,900	42
Mercury	**9**	**0.88**	**0.8**	**0.38**	23	65	0.1
Nickel	**51.7**	6.1	22.3	**36.4**	1,600	23,000	31
Potassium	<1,500	<1,200	2,370	<1,100	-	-	-
Selenium	<3.1	<2.4	<2.5	<2.2	390	5,700	7
Silver	**4.4**	<0.60	<0.61	0.91	390	5,700	1
Sodium	<1,500	<1,200	<1,200	<1,100	-	-	-
Thallium	<1.5	<1.2	<1.2	<1.1	5	79	3
Vanadium	27.8	11.7	28.7	43.6	78	1,100	-
Zinc	**1,880**	87.7	83.3	**1,760**	23,000	110,000	600
Polychlorinated Biphenyls (TCL PCB)							
Total PCB	~	~	~	ND	0.2	1	0.2

NOTES:

RDC = NJDEP Residential Direct Contact Soil Remediation Standard
NRDC = NJDEP Non-Residential Direct Contact Soil Remediation Standard
IGW = Impact to Groundwater Soil Remediation Standard
bold = Exceeds NJDEP RDCSRS
bold = Exceeds NJDEP IGWSSL
J = Estimated Value
PID = Photoionization Detector - background 0.4-0.5 ppm
- = Remediation Standard Not Established
ND = Not detected
mg/kg = milligrams per kilogram = ppm = parts per million
~ = Not analyzed pursuant to NJDEP Historic Fill Guidance Document
< = Value shown is less than laboratory RL
* ecological concern/soil remediation standard/residual product limits
** PAHs are a subset of TCL ABN

ANALYTICAL RESULT SUMMARY TABLE

TEMPORARY WELL POINT GROUNDWATER SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

Sample Number	TWP-1		
Lab ID	JB6521-1		
Matrix	Aqueous		
PID	0 ppm		
Sampler	MF, CC		
Sampling Date	5/14/2012		
Sampling Time	10:20		
Units	µg/kg (ppm)		
Analytical Parameter		NJDEP GQC +	NJDEP VI GSL ++
Volatile Organic Compounds (TCL VOA+)			
Carbon disulfide	0.32 J	700	710
Chloroethane	1.3	-	4
Methyl-Tertiary-Butyl-Ether (MTBE)	0.58 J	70	78
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	-
Semi-volatile Organic Compounds (TCL ABN+)			
Acenaphthene	0.599	400	
Acenaphthylene	0.117	100	
Anthracene	0.274	2,000	
Benzo(a)anthracene	**0.683**	0.1	
Benzo (a) pyrene	**0.580**	0.1	
Benzo(b)fluoranthene	**0.608**	0.2	
Benzo(g,h,i)perylene	0.493	100	
Benzo(k)fluoranthene	0.42	0.5	
bis(2-Ethylhexyl)phthalate	**22**	3	
Chrysene	0.61	5	
Dibenz(a,h)anthracene	0.188	0.3	
Fluoranthene	0.953	300	
Fluorene	0.201	300	
Indeno(1,2,3-cd)pyrene	**0.428**	0.2	
Naphthalene	ND	300	
Phenanthrene	0.88	100	
Pyrene	1.01	200	
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	
TAL Metals			
Aluminum	**8,650**	200	
Antimony	**14.9**	6	
Arsenic	**24.5**	3	
Barium	521	6,000	
Beryllium	<1.0	1	
Cadmium	<3.0	4	
Calcium	140,000	-	
Chromium (total)	22.3	70	
Cobalt	<50	-	
Copper	578	1,300	
Iron	**39,200**	300	
Lead	**738**	5	
Magnesium	35,400	-	
Manganese	**1,100**	50	
Mercury	**2.6**	2	
Nickel	20.8	100	
Potassium	18,700	-	
Selenium	<10	40	
Silver	<10	40	
Sodium	**198,000**	50,000	
Thallium	<2.0	2	
Vanadium	<50	-	
Zinc	387	2,000	
Polychlorinated Biphenyls (TCL PCB)			
Total PCBs	ND	0.5	

NOTES:

ND = Undetected at Laboratory Reporting Limit (RL)
J = indicates an estimated value
+ = NJDEP Class II-A Aquifer Groundwater Quality Criteria
++ = NJDEP Generic Vapor Intrusion Groundwater Screening Level
* = Carcinogenic Synthetic Organic Compounds - 5 ppb each/25 ppb total
** = Non-Carcinogenic Synthetic Organic Compounds - 100 ppb each/500 ppb total
PID = Photoionization Detector
ppm = parts per million
µg/L = micrograms per liter = parts per billion = ppb
TCL = Target Compound List
TAL = Target Analyte List
< = Value shown is less than laboratory RL
bold = Exceeds NJDEP Class II-A Groundwater Quality Criteria (GQC)

APPENDIX J

Quality Assurance/Quality Control (QA/QC) Summary Tables

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SUMMARY TABLE

SOIL SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

	Duplicate Sample	
Sample Number	SB-1	SB-11
Lab ID	JB6521-4	JB6521-5
Sampling Date	5/14/2012	5/14/2012
Matrix	Soil	Soil
Depth	1.5'-2.0'	1.5'-2.0'
PID	0.4 ppm	0.4 ppm
Sampler	MF, CC	MF, CC
Sampling Time	10:00	10:05
Units	mg/kg (ppm)	mg/kg (ppm)
Analytical Parameter		
Semi-volatile Organic Compounds (TCL ABN)		
Acenaphthene	4.12	0.0367 J
Acenaphthylene	9.38	0.0323 J
Anthracene	26.5	0.0824
Benzo(a)anthracene	56.8	0.279
Benzo(a)pyrene	51.7	0.321
Benzo(b)fluoranthene	59.2	0.331
Benzo(g,h,i)perylene	22.7	0.229
Benzo(k)fluoranthene	25	0.113
Chrysene	52.2	0.32
Dibenzo(a,h)anthracene	9.88	0.0655
Fluoranthene	114	0.487
Fluorene	14.8	0.0387 J
Indeno(1,2,3-cd)pyrene	24.3	0.167
Naphthalene	3.35	0.0345 J
Phenanthrene	73.9	0.366
Pyrene	85.9	0.414
TAL Metals		
Aluminum	7,820	5,020
Antimony	12.5	4.4
Arsenic	43	32.9
Barium	346	143
Beryllium	0.4	0.35
Cadmium	1.7	<0.81
Calcium	10,800	40,500
Chromium (total)	31	15.5
Cobalt	10.3	11.7
Copper	197	761
Iron	24,400	41,300
Lead	866	516
Magnesium	5,360	1,660
Manganese	181	233
Mercury	9	3.9
Nickel	51.7	24.5
Potassium	<1,500	<1,600
Selenium	<3.1	5
Silver	4.4	1.9
Sodium	<1,500	<1,600
Thallium	<1.5	<1.6
Vanadium	27.8	19.1
Zinc	1,880	492

NOTES:

J = Estimated Value
PID = Photoionization Detector
mg/kg = milligrams per kilogram = ppm = parts per million
< = Value shown is less than laboratory RL

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SUMMARY TABLE

TEMPORARY WELL POINT GROUNDWATER SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

	Duplicate Samples		
Sample Number	**TWP-1**	**TWP-11**	**TRIP BLANK**
Lab ID	JB6521-1	JB6521-2	JB6521-3
Matrix	Aqueous	Aqueous	Di Water
PID	0 ppm	0 ppm	0 ppm
Sampler	MF, CC	MF, CC	MF, CC
Sampling Date	5/14/2012	5/14/2012	5/14/2012
Sampling Time	10:20	10:25	10:25
Units	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)
Analytical Parameter			
Volatile Organic Compounds (TCL VOA+)			
Carbon disulfide	0.32 J	0.28 J	ND
Chloroethane	1.3	1.4	ND
Methyl-Tertiary-Butyl-Ether (MTBE)	0.58 J	0.53 J	ND
Tentatively Identified Compounds (TICs)	ND	ND	ND
Semi-volatile Organic Compounds (TCL ABN+)			
Acenaphthene	0.599	0.662	
Acenaphthylene	0.117	0.132	
Anthracene	0.274	0.327	
Benzo(a)anthracene	0.683	0.805	
Benzo (a) pyrene	0.580	0.679	
Benzo(b)fluoranthene	0.608	0.701	
Benzo(g,h,i)perylene	0.493	0.567	
Benzo(k)fluoranthene	0.420	0.497	
bis(2-Ethylhexyl)phthalate	22	ND	
Chrysene	0.61	0.707	
Dibenz(a,h)anthracene	0.188	0.22	
Fluoranthene	0.953	1.09	
Fluorene	0.201	0.221	
Indeno(1,2,3-cd)pyrene	0.428	0.498	
Naphthalene	ND	0.292	
Phenanthrene	0.88	1.06	
Pyrene	1.01	1.19	
Tentatively Identified Compounds (TICs)	ND	ND	
TAL Metals			
Aluminum	8,650	10,500	
Antimony	14.9	20.3	
Arsenic	24.5	33.5	
Barium	521	600	
Beryllium	<1.0	1	
Cadmium	<3.0	<3.0	
Calcium	140,000	142,000	
Chromium (total)	22.3	28.1	
Cobalt	<50	<50	
Copper	578	772	
Iron	39,200	47,900	
Lead	738	976	
Magnesium	35,400	35,700	
Manganese	1,100	1,160	
Mercury	2.6	2.9	
Nickel	20.8	26.7	
Potassium	18,700	18,800	
Selenium	<10	<10	
Silver	<10	<10	
Sodium	198,000	197,000	
Thallium	<2.0	<2.0	
Vanadium	<50	<50	
Zinc	387	495	
Polychlorinated Biphenyls (TCL PCB)			
Total PCBs	ND	ND	

NOTES:

ND = Undetected at Laboratory Reporting Limit (RL)
J = Indicates an estimated value
µg/L = micrograms per liter = parts per billion = ppb
TAL = Target Analyte List
< = Value shown is less than laboratory RL

APPENDIX K

Estimated Cost Summary Table

ESTIMATED COST SUMMARY

BLOCK 12, LOTS 1-7, 9, AND 11-18
HOBOKEN, NEW JERSEY

Task No.	TASK DESCRIPTION	CONSULTANT/CONTRACTOR	WORK DESCRIPTION	ESTIMATED COST
1	Preliminary Assessment	Boswell McClave Engineering	Consulting/Oversight & Report Preparation	$ 7,500.00
		FirstSearch Technologies, Corp.	Environmental Database, Historic Mapping, Aerials, Etc.	$ 1,300.00
		Accurate Abstracts	Chain of Title Search	$ 4,102.95
		Karren Farrel	Industrial Directory Search	$ 400.00
			Subtotal	*$ 13,302.95*
2	Site Investigation	Boswell McClave Engineering	Consulting/Oversight & Report Preparation/Soil & Groundwater Sampling	$ 13,500.00
		Pine Environmental	Sampling Equipment Rental	$ 27.00
		AccuTest Laboratories	Laboratory Analysis of Soil and Groundwater	$ 4,883.00
		Environmental Management Associates, Inc.	Soil Borings and Well Point Installation	$ 3,000.00
		Infrared Services, Inc.	Geophysical Survey	$ 1,773.00
			Subtotal	*$ 23,183.00*

ESTIMATED TOTAL:	$ 36,500.00

APPENDIX L

Qualifications

BOSWELL ENGINEERING

FRANK J. ROSSI, LSRP
Environmental Science Department Head

EDUCATION:

MS, Chemical Engineering, New Jersey Institute of Technology
BS, Chemistry, Fairleigh Dickinson University

PROFESSIONAL REGISTRATIONS:

NJDEP Licensed Site Remediation Professional

CERTIFICATIONS:

OSHA 40-Hour HAZMAT & 8-Hour Annual Refresher
Confined Space Entry
AHERA Asbestos Inspector/Management Planner
EPA/HUD-Certified Lead Inspector
NJDEP Licensed for UST – Installation, Testing, Closure & Subsurface Evaluation

HIGHLIGHTS:

- Project Manager for the PA/SIs of numerous several hundred-acre facilities.
- Extensive turn-key experience from Phase I ESAs through a project's investigation and remediation.

RELEVANT EXPERIENCE:

Mr. Rossi has over 32-years of experience as a project manager/senior environmental/chemical engineer. He has a strong diverse background in chemical, civil and environmental engineering. Mr. Rossi also has extensive hands-on experience in all types of field applications, including but not limited to, **Phase I Preliminary Assessments (PA)**, **Phase II Site Investigations (SI)**, underground storage tank (UST) removals and installations, remedial investigations/feasibility studies (RI/FS), in-situ remediation systems and groundwater fate and transport modeling.

His specific experience with **Phase I Preliminary Assessment** projects includes:

- Project manager for the **PA/SI** of Greystone Psychiatric Hospital in Morris Plains New Jersey. Performed a through and detailed assessment of this 900-acre, 125-year old facility. Work included a thorough inspection of over 50 buildings, some currently in use and others abandoned for decades. Many areas of environmental concern (AOC) were identified including numerous underground storage tanks (UST), 55-gallon drum and electrical transformer disposal areas, asbestos and lead based paint and a forgotten manufactured gas plant (MGP). Following several weeks of fieldwork authored a comprehensive PA/SI Report detailing the facility's AOCs.

- Project manager for the **PA/SI** of the Fairleigh Dickinson University, Rutherford, NJ campus. Prior to the property's sale, performed a detailed **PA/SI** of this 11.5-acre college campus comprising 13 buildings housing offices, auditoriums, classrooms, laboratories and residence halls. Prepared a comprehensive **SI** Report detailing sampling at each of the Site's nine (9) USTs in accordance with the NJDEP's Technical Requirements.

- Project manager for the **PA/SI** and emergency remedial action at the Garden State Industrial Park warehouse complex. Performed and authored a detailed **PA** report; identified four (4) previously undocumented USTs through the use of ground penetrating radar (GPR); conducted the emergency removal of the four (4) leaking USTs in close proximity to facility and municipal production wells; performed **SI** following tank removal; field designed contamination interceptor systems utilizing geosynthetics.

- Project manager for the **SI** of an active gasoline service station in Rochelle Park NJ. Performed subsurface investigations, monitoring well installation and gauging, soil vapor point installation and sampling and low flow groundwater sampling. Interpreted all laboratory data and prepared Remedial Action Progress Reports for submission to the NJDEP. Provided operation and maintenance of an on-site oil water separator and groundwater air stripper. Delineated on-site/off-site volatile organic contaminant (VOC) contamination and provided hydraulic control of the site's VOC plume.

BOSWELL ENGINEERING

CHRIS EDWARD ARNTZ, P.E., P.P., LSRP
Senior Environmental Project Engineer

EDUCATION:

MS, Geoenvironmental Engineering, New Jersey Institute of Technology
BS, Civil Engineering, New Jersey Institute of Technology
AS, Mathematics/AA, Liberal Arts, Raritan Valley Community College

PROFESSIONAL REGISTRATION:

Professional Engineer – New Jersey, New York, New Hampshire
Professional Planner – New Jersey
NJDEP Licensed Site Remediation Professional

CERTIFICATIONS:

OSHA 40-Hour Hazardous Waste Site & 8-Hour Site Supervisor
AHERA Asbestos Inspector/Management Planner
NJDEP Licensed for UST – Installation, Testing, Closure and Subsurface Evaluation
Confined Space Entry

HIGHLIGHTS:

- Extensive experience with both real estate Phase I Assessments and NJDEP Preliminary Assessments.
- Prepared Preliminary Assessments and Site Investigations for projects ranging in size from single-family residences to those encompassing several hundred acres.

RELEVANT EXPERIENCE:

Mr. Arntz has over 19 years of diverse experience in civil and environmental engineering. He has performed numerous **Preliminary Assessments (PA) and Site Investigations (SI)**, remedial investigations and remediations. He has provided design, technical, logistical and administrative support at hazardous waste sites to both public and private clients, as well as program support to the U.S. Environmental Protection Agency in support of the Superfund program.

His specific experience with **PA** and **SI** projects includes:

- Project engineer for the **PA/SI** of Greystone Psychiatric Hospital in Morris Plains New Jersey. Performed a through and detailed assessment of this 900-acre, 125-year old facility. Work included a thorough inspection of over 50 buildings, some currently in use and others abandoned for decades. Many areas of environmental concern (AOC) were identified including numerous underground storage tanks (UST), 55-gallon drum and electrical transformer disposal areas, asbestos and lead based paint and a forgotten manufactured gas plant (MGP). Following several weeks of fieldwork authored a comprehensive PA/SI Report detailing the facility's AOCs.
- Project engineer for the **PA/SI** of a former eyeglass frame manufacturer in Newark, NJ. Performed a comprehensive investigation in accordance with the NJDEP's Industrial Site Recovery Act (ISRA) identifying both documented and undocumented USTs through a geophysical investigation, a former drainage system contaminated with chlorinated organic solvents, and floor drains whose integrity was compromised by acids spilled during the company's manufacturing processes.
- Project engineer for the **PA/SI** of the Fairleigh Dickinson University, Rutherford, NJ campus. Prior to the property's sale, performed a detailed **PA/SI** of this 11.5-acre college campus comprising 13 buildings housing offices, auditoriums, classrooms, laboratories and residence halls. Prepared a comprehensive **SI** Report detailing sampling at each of the Site's nine (9) USTs in accordance with the NJDEP's Technical Requirements.
- Project engineer for the **PA/SI** and emergency remedial action at the Garden State Industrial Park warehouse complex in Wyckoff, NJ. Performed and authored a detailed **PA** report, identifying four (4) previously undocumented and leaking USTs using ground penetrating radar (GPR).
- Project engineer for the remediation/demolition of Witco Chemical, a 100-year old former fatty acid manufacturing plant adjacent to the Passaic Valley Sewerage Commissioners (PVSC) plant in Newark, New Jersey. Prior to the 17-acre site's acquisition by the PVSC, reviewed all previous ISRA reporting by the property's former owner. During the demolition and remediation provided professional oversight for the removal of all hazardous materials from the site, arranged and coordinated the transportation and disposal of over 140-tons of fatty acid residual waste from beneath the building floor slabs. The project subsequently received a Distinguished Service Award from the Consulting Engineers Council of New Jersey.

BOSWELL
ENGINEERING

MARC PAUL FRESCHI, E.I.T.
Environmental Engineer

HIGHLIGHTS:

- Over 7-years experience in site investigation and remediation projects.

EDUCATION:

BS, Environmental Engineering, New Jersey Institute of Technology

PROFESSIONAL REGISTRATION:

Engineer-In-Training (EIT)

CERTIFICATIONS:

OSHA 40-Hour Hazardous Waste Site Operations
OSHA 10-Hour Construction Safety
NJDEP Licensed for UST – Subsurface Evaluation
Confined Space Entry

RELEVANT EXPERIENCE:

Mr. Freschi has over 7-years of experience in civil and environmental engineering. He has participated in a wide variety of Site and Remedial Investigations (SI/RI), Remedial Actions (RA) and underground storage tank (UST) removals completed in accordance with the New Jersey Department of Environmental Protection's (NJDEP) Technical Requirements. Mr. Freschi has also prepared SI/RI Reports, Remedial Action Workplans (RAW), bid documents and specifications and provided construction management and resident engineering for soil/groundwater remediation and building demolition.

His specific project experience includes:

- Performed the groundwater RI of petroleum contaminants at the Borough of Fairview Department of Public Works (DPW) following a UST removal. Work included providing geologic oversight during monitoring well installation; obtaining the requisite access agreements from neighboring property owners, continuing the horizontal/vertical delineation of groundwater contamination (both on and off-site); and performed detailed baseline ecological and receptor evaluations (well canvas & survey, storm sewer, etc.) in accordance with the NJDEP's Technical Requirements.

- Performed the soil RI and RA at the Borough of Paramus Municipal Pool. Work included establishing a 50' x 50' grid across the entire 4-acre property and performing soil subsurface evaluation delineating the horizontal/vertical extent of soil contamination in accordance with NJDEP requirements. Following contaminant delineation, prepared detailed plans and specifications for the removal of over 9,000-tons of polychlorinated biphenyl (PCB) and pesticide (chlordane and dieldrin) contaminated soil. The work was performed in the winter of 2009 and "fast-tracked" in order to open the pool for the summer season. The project was successfully completed and the NJDEP issued a No Further Action (NFA) letter only days before the pool's opening on Memorial Day weekend.

- Performed a comprehensive SI, UST removal and soil/groundwater RI at the Borough of Haledon's former DPW site, located immediately adjacent to the environmentally sensitive Haledon Reservoir. Completed a UST removal, and a soil/groundwater RI delineating the horizontal/vertical extent of soil contamination associated with the garage's former floor drain system and former drum container storage area. The drain system flowed to a cesspool located immediately adjacent to the garage with overflow water outletting to a spillway draining from the Haledon Reservoir. Following the cesspool's remediation, provided contractor oversight during the garage's demolition and site restoration.

- Performed a SI/RI and RA of three (3) separate properties (former bakery, vacant lot, trucking garage) located in Cliffside Park, NJ. The Borough planned to purchase the contiguous sites to construct a proposed Satellite DPW facility. During the PA, identified an extensive floor drain system beneath the trucking garage. The subsequent SI also identified historic fill material present in an approximate 2' layer beneath all 3 sites. Following the Borough's purchase of the properties, removed two (2) aboveground storage tanks (AST), video traced, decontaminated and removed 300 linear feet of floor drain piping and completed a comprehensive asbestos containing material (ACM) survey. Prepared a detailed plans and specifications for the building's demolition and provided contractor oversight during the work. Given that the site was to be utilized as a DPW garage, prepared a RAW including a Deed Notice allowing the historic fill to remain avoiding costly remediation (i.e. excavation and disposal).

BOSWELL
ENGINEERING

CHRIS COLABAUGH
Geologist

EDUCATION:

B.S., Geology, Kutztown University of Pennsylvania
A.S., Environmental Science, Raritan Valley Community College
A.S., Chemistry, Raritan Valley Community College

CERTIFICATIONS:

OSHA 40-Hour Hazardous Waste Site Operations
OSHA 10-Hour Construction Safety
NJ Transit Railway Safety Training

HIGHLIGHTS:

- Experience with both Phase I Environmental Site Assessments and NJDEP Preliminary Assessments.
- Prepared Preliminary Assessments and Site Investigations for private, municipal, and Industrial Site Recovery Act (ISRA) projects.

RELEVANT EXPERIENCE:

Mr. Colabaugh has over 1-year of experience as a geologist conducting environmental site remediations. He has participated in a variety of **Preliminary Site Assessments (PA), Environmental Assessments (EA), Site Investigations, and Phase I Environmental Site Assessments (ESA)** as well as remedial investigations, remedial actions, and receptor evaluations. He has also prepared several PA reports, EA reports, and Phase I ESA reports. Mr. Colabaugh also has over 3-years of experience with Geographic Information Systems (GIS) including subsurface topography mapping, shallow overburden and bedrock groundwater contour mapping, 1-mile radius well search mapping, preparing sensitive population maps, and data management.

His specific experience with **PA** and **SI** projects includes:

- Performed a Green Acres PA report and follow-up SI work for the Closter Swim Club in the Borough of Closter, NJ. PA work included records reviews of Sanborn Fire Insurance maps, historic topographic maps, historic aerial images, directory searches, and Open Public Records Request pursuant to NJDEP's Technical Requirements. The PA identified six (6) areas of concern and was able to eliminate all but three (3). The radius search discovered two (2) site remediation cases that may be impacting the on-site potable well. The historic aerial images suggest that prior to 1931 the site was at least partially used for agricultural farming and may be impacted by historic pesticide contamination. Future SI work will include collecting six (6) subsurface soil samples for pesticides, potable well sampling for VOCs, semi-volatile organic compounds (semi-VOCs), and pesticides. Boswell will also dye trace and video inspect the one (1) sump pump line from the pool's backwash pit before issuing the site a remedial action outcome (RAO) of no further action.

- Performed a Preliminary Assessment report for National Paper Envelope, a printing company, which through investigation of the McRAEs Industrial Directory, was determined to be Industrial Site Recovery Act (ISRA) applicable requiring a RAO of no further action prior to the sale of the property. The site contained an exhaust pipe that caused organic staining on the nearby asphalt pavement and a chemical storage room with a leaking roof. A limited investigation of the surficial soils to determine the impact of these two (2) separate source areas was recommended prior to the issuance of an RAO. Based upon these recommendations the subject property owner decided not to sell the property at this time.

- Prepared a Green Acres Environmental Assessment (EA) Report for the proposed changes to Harold Wall's Field in Rutherford. The EA is designed to inform Green Acres of the proposed improvements to the site including changes to the existing ball fields, installation of retaining walls, installation of new picnic tables and new parking lot, etc. as well as the existing site conditions, soil and sediment control measures. The report should discuss all possible potential environmental impacts resulting from the proposed changes so that Green Acres can determine if they will provide funding for the project.

- Prepared a Phase I ESA for an office building/parking garage complex in the City of Hackensack as part of the due diligence required of Bergen County prior to purchasing the property. The report identified one (1) potential AOC associated with the possibility of a former fuel oil tank used for heating the former residencies dwelling that appeared on the site prior to 1902 until approximately 1985. Based on the age of the construction of the building, it was determine that any Underground Storage Tank (UST) on the site would have been excavated and removed in order to prepare the site for the existing office building. Therefore, we were able to recommend no further action for the site.

APPENDIX M

Tier II Reduced and Electronic Data Deliverables

(Attached Separately)

Site Investigation Report for Block 12, Lots 1-7, 9, 7& 11-18

Appendix M
Tier II Reduced Laboratory Deliverables

Our File No. HO-458

APPENDIX D

Soil Boring Logs sourced from SIR, August 2012

APPENDIX F

Soil Boring Logs

Boring No	SB-1	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Boring Contractor	EMA	Date	May 14, 2012	
Boring Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	TWP	Construction	15' of slotted 2" diameter PVC Well Point	PID (Background) 0.4

Remarks: Historic fill soil sample SB-1 and duplicate sample SB-11 were collected from 1.5' - 2.0' bgs at 10:00 and 10:05. Groundwater sample TWP-1 and duplicate sample TWP-11 were collected at 5.0' bgs at 10:20 and 10:25.

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
		2" asphalt, concrete, brick, brown silt		Historic Fill
		Dark brown silt and some concrete	SB-1/SB-11	
		Dark brown clay with rocks		
		Brown clay and gravel		
		Black clay with some wood		
		Black silty clay with small pebbles	TWP-1/ TWP-11	
		Black silt and clay with gravel and wood		
	0.4	Dense clay (black)		
		Clay and silt		
		Very wet black clay and silt with some fine gravel		
		End of Boring		

Boring No	SB-2	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	No sample collected			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	2" asphalt, silt, gravel, clay		
2'				
3'		Silt, gravel, clay, some brick		
4'		Concrete with black clay		Historic Fill
5'		Black to brown clay and coal		
6'		Black silty clay with coal		
7'		Silty clay with ash		
8'		Silty clay with brick and stone		
9' ▼		Sand containing brick, stone, coal		
10'		Brown/green clay		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-3	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	Poor recovery from 5'-10'; Historic fill soil sample SB-3 collected from 4' to 4.5' bgs at 11:30			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	3" asphalt, stone subbase		
2'		Ground brick		Historic Fill
3'				
4'				
5'		Coal mixed with ash and brick	SB-3	
6'		Coal with organics		
7'		Brick and concrete		
8'		Black sandy gravel		
9'		Red-brown silty clay		
10'		Brown silty clay		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-4	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	Boring advanced inside of former building foundation and geophysical anomaly, no sample collected.			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	2" asphalt, gravel		
2'		Crushed brick		Historic Fill
3'				
4'		Mortar mixed with concrete		
5'		Gravel with sand and coal, wood, glass		
6'		**End of Boring**		
7'				
8'				
9'				
10'				
11'				
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-5	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.5
Remarks	No sample collected			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.5	2" asphalt; brown quartz sand with stone		
2'				
3'		Brown quartz sand with stone, some brick		Historic Fill
4'		Brown clay with denatured concrete		
5' ▼				
6'		Dark brown gravel and wood		
7'				
8'		Dark brown clay		
9'				
10'		Gravels and organics		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-6	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.5
Remarks	Historic fill soil sample SB-6 collected from 9' - 9.5' bgs at 9:30			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.5	6" asphalt; light gray concrete rubble		
2'		Silty sand with fine ground coal, brick, concrete		Historic Fill
3'				
4'		Tan-brown silty clay		
5' ▼		White quartz sand to brown clay		
6'		Brown silty sand with gravel, coal, and wood		
7'				
8'		Ground brick and gravel		
9'				
10'		Brown to green silty clay with coal, glass, metal	SB-6	
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-7	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.5
Remarks	Boring advanced inside of Lot 9. Low recovery from 5' to 10'. Historic Fill Soil Sample SB-7 collected from 2.5' to 3.0' interval at 9:45			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.5	6" grass and topsoil; brown silty clay with some coal		Historic Fill
2'				
3'		Brown silty clay with coal and ash and wood	SB-7	
4'		Light brown sandy gravel with tree roots		
5'		Black silty clay		
6'				
7'		Light brown sandy clay		
8' ▼				
9'		Light brown clay		
10'		Loose gravel (diabase)		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

APPENDIX E

SRP Case Oversight Report, NJDEP Website, November 2014

Activity Tracking Report

11/17/2014 12:03 PM

57 69 HARRISON 51 59 PATERSON 58 64 JACKSON S

PI Number: 585028

LSR120002

Activity Class Description	Licensed Site Professional Program
Activity Type Description	Spill Act Defense-Gov.

Assigned To	Description	Completed Date
SRP CLEARING HOUSE, LSRP	Date Remediation was Required to be Initiated	6/18/2012
SRP CLEARING HOUSE, LSRP	LSRP Retention Form Received	12/4/2013
INFANTI, KRISTIN	Exemption From Spill Act Liability Certification Form Received	3/14/2014
KIERNAN, MURIEL	LSRP Receptor Evaluation (Initial) Received	3/14/2014
INFANTI, KRISTIN	Exemption From Spill act Liability Certification Form Reviewed	3/17/2014
KLOTZKIN, RUSSELL	Phone call - LSRP Compliance Assistance	3/17/2014
,	Case Transferred	3/17/2014

HADSELL, WILLIAM	Enforcement Manager Assigned	12/19/2014
HADSELL, WILLIAM	Enforcement Manager Review to be Conducted	
INFANTI, KRISTIN	Remedial Investigation Report Due	
INFANTI, KRISTIN	Remedial Investigation to be Completed	

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Department of Environmental Protection
P. O. Box 402
Trenton, NJ 08625-0402

Last Updated: June 15, 2012

Activity Tracking

SRP CASE OVERSIGHT REPORT

57 69 HARRISON 51 59 PATERSON 58 64 JACKSON S
57 69 HARRISON 51 59 PATERSON 58 64 JACK
Hoboken City, NJ

PI Number	585028	585028
Activity Number	LSR120002	LSR120002
Bureau	LSR	LSR
Document Title	HARRISON PATERSON JACKSON ST	HARRISON PATERSON JACKSON ST
Case Status	LSRP Oversight	LSRP Oversight
Case Status Date	6/18/2012	6/18/2012
Confirm Contamination	Yes	Yes
Case Manager		
Phone	() -	() -
LSRP Name	STEPHEN T BOSWELL	
Business Phone Number	(201) 641 - 0770	() -

Remedial Level	Start Date	End Date
C2: Formal Design - Known Source or Release with GW Contamination	6/18/2012	

Case Types	Start Date	End Date
LSRP 0-1 CAOC	12/6/2013	
Other	6/18/2012	
Spill Act Discharge	6/18/2012	
Spill Act Exempt Gov	3/14/2014	

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Last Updated: June 15, 2012

APPENDIX F

CID from PAR, January 2012

I. Area(s) of Concern, Receptor and Emergency Response Tracking	*Impacted Media*	*Contaminants of Concern*	*Exposure Route*	*Receptors*		*Current Status/Outcome*
				Existing	*Potential*	
AOC-1: Historic Fill	Potentially Soil and Groundwater	PAHs, EPH, Metals, and PCBs	Direct contact and groundwater migration	None	Limited amount of direct contact exposure in unpaved locations	**January 2012 Preliminary Assessment Report (PAR)** - In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants. Boswell McClave recommends collecting a minimum of four (4) soil samples and one (1) groundwater sample and analyzing for historic fill parameters if fill material is identified.
AOC-2: Potential USTs	Potentially Soil and Groundwater	Petroleum hydrocarbons and lead	Groundwater migration	None	None	**January 2012 PAR** - The various properties have been developed and modified throughout the last 100-years according to aerial imagery and Sanborn Fire Insurance Maps. Some of the former structures may have utilized heating oil underground storage tanks (UST) or other underground storage structures. Boswell McClave recommends a geophysical survey of the subject properties in order to confirm the presence/absence of USTs or other subsurface anomalies. If any USTs are located they should be investigated in accordance with the NJDEP's Technical Requirements.
AOC-3: Off-Site Former UST Releases	Potentially Groundwater	Gasoline and Fuel Oil	Groundwater Migration	None	None	**January 2012 PAR** - The FirstSearch radius report identified the presence of off-site UST releases of gasoline and fuel oil nearby the site. Based on the age of the releases (~10 years ago), the potential contaminants have a low possibility of impacting the site. Moreover, it is the responsibility of the responsible party (RP) to address contamination migrating from their site. Boswell McClave recommends no further investigation for this AOC.

APPENDIX G

Updated CID from SIR, August 2012

I. Area(s) of Concern, Receptor and Emergency Response Tracking	*Impacted Media*	*Contaminants of Concern*	*Exposure Route*	*Receptors*		*Current Status/Outcome*
				Existing	*Potential*	
AOC-1: Historic Fill	Potential Soil and Groundwater	Petroleum hydrocarbons, PAHs, Metals, and PCBs	Direct contact and groundwater migration	None	Limited amount of direct contact exposure in unpaved locations	**January 2012 Preliminary Assessment Report (PAR) -** In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants. Boswell McClave (Boswell) recommended collecting a minimum of four (4) soil samples and one (1) groundwater sample and analyzing for historic fill parameters if fill material is identified. **June 2012 Site Investigation Report (SIR) -** Soil contamination was encountered in the historic fill above the NJDEP's Residential Direct Contact Soil Remediation Standards (RDCSRS) at depths of up to 9.5' below ground surface (bgs), Boswell recommends institutional (deed notice) and engineering (capping) controls. The groundwater contamination can be addressed through the implementation of a Classification Exception Area (CEA).

I. Area(s) of Concern, Receptor and Emergency Response Tracking	*Impacted Media*	*Contaminants of Concern*	*Exposure Route*	*Receptors*		*Current Status/Outcome*
				Existing	*Potential*	
AOC-2: Potential USTs	Potential Soil and Groundwater	Petroleum hydrocarbons and lead	Groundwater migration	None	None	**January 2012 PAR -** According to aerial imagery and Sanborn Fire Insurance Maps the various properties have been developed and modified throughout the last 100-years. Some of the former structures may have utilized heating oil stored in underground storage tanks (UST). Boswell recommends a geophysical survey of the subject properties to confirm the presence/absence of USTs or other subsurface anomalies. If any USTs are identified they should be investigated/removed in accordance with the NJDEP's Technical Requirements. **June 2102 SIR -** No subsurface anomalies exhibited "UST-like" signatures and the geophysical contractor concluded that there were no abandoned or forgotten tanks on the property. Based upon the geophysical survey results, the absence of visually identifiable petroleum contamination in the soil borings, Boswell recommends no further investigation of AOC-2.
AOC-3: Off-Site Former UST Releases	Potentially Groundwater	Gasoline and Fuel Oil	Groundwater Migration	None	None	**January 2012 PAR -** The First Search radius report identified the presence of off-site UST releases of gasoline and fuel oil nearby the subject properties. Based on the age of the releases (~10 years ago), the potential contaminants have a low possibility of impacting the site. Moreover, it is the obligation of the responsible party (RP) to address contamination migrating from their site. **June 2102 SIR -** The temporary well point groundwater sample did not detect any targeted contaminants above the NJDEP GQC or Vapor Intrusion Groundwater Screening Level. Therefore, there is no evidence that the site's groundwater has been impacted by previous off-site UST releases.

APPENDIX H

NJDEP Forms

Previously submitted
Confirmed Discharge Notification Form – 6/11/2012;
Preliminary Assessment/Site Investigation Form – 8/7/2012
Exemption from Spill Act Liability Form – 3/14/2014

New Jersey Department of Environmental Protection
Site Remediation Program

CONFIRMED DISCHARGE NOTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Block 12, Lots 1-7, 9, 11-18

List all AKAs:

Street Address: 57-69 Harrison Street, 51-59 Paterson Avenue, & 58-64 Jackson Street

Municipality: City of Hoboken (Township, Borough or City)

County: Hudson Zip Code: 07030

Program Interest (PI) Number(s): Case Tracking Number(s):

Site Remediation Initiated Pursuant to N.J.A.C. 7:26C-2.

State Plane Coordinates for a central location at the site: Easting: 619,035 Northing: 694,045

Municipal Block(s) and Lot(s):

Block # 12	Lot # 1, 2, 3, 4, 5, 6, 7, 9,	Block # 12	Lot # 11, 12, 13, 14, 15,		
Block # 12	Lot # 16, 17, and 18	Block #	Lot #		
Block #	Lot #	Block #	Lot #		
Block #	Lot #	Block #	Lot #		

SECTION B. DISCHARGE BEING REPORTED WITH THIS SUBMISSION

Incident Number/Com. Center Number for the discharge being reported with this submission:

Is there an existing remedial case at the site? ☐ Yes ☒ No

If Yes, would you like to combine this incident number with the existing case? ☐ Yes ☐ No

What is the Tracking Number for the existing remedial you would like to combine this incident number with:

SECTION C. CURRENT OWNER OF THE SITE

Title/Name of Organization: Ponte Equities, Inc./Unity Environmental

First Name of Contact: Blake Last Name of Contact: Davis

Title: Attorney

Phone Number: (201) 863-4400 Ext: Fax:

Mailing Address: 268 West Street

City: New York State: New York Zip Code: 10013

Email Address:

SECTION D. SITE USE

Site Use (check all that apply)

- ☐ Park or recreational use
- ☒ Vacant
- ☐ Government
- ☐ Other:

Intended Future Site Use, if known (check all that apply)

- ☐ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☒ Park or recreational use
- ☐ Vacant
- ☐ Government
- ☐ Future site use unknown

SECTION E. DESCRIPTION OF DISCHARGE

Date Discharge Occurred: _____ Date Discharge Notification to the Department: _____

Media Contaminated:

☒ Soil ☒ Groundwater ☐ Surface Water Receiving Water: _____

Description of Discharge:

Historic fill was visually identified in soil borings. Subsurface soil samples detected Polycyclic Aromatic Hydrocarbons (PAH), arsenic, and lead above the NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS). Groundwater contained PAHs and metals: aluminum, antimony, arsenic, iron, lead, manganese, mercury, and sodium above the NJDEP Groundwater Quality Criterion (GQC). Date of release of historic fill material is unknown.

SECTION F. FEDERAL RELEASE

Is this discharge related to a release from a Federally regulated UST? ☐ Yes ☒ No

If "Yes," please answer the following questions:

Tank ID (from Registration): _____ Tank System Size: _____

Contents: _____

Source of Federal Release (check appropriate category):

- ☐ Dispenser
- ☐ Vent Pipe
- ☐ Fill Port/Fill Lines
- ☐ Piping (Upgraded)
- ☐ Piping (Not Upgraded)
- ☐ Spill Bucket
- ☐ Tank (Upgraded)
- ☐ Tank (Not Upgraded)
- ☐ Vapor System Recovery
- ☐ Submersible Turbine Pump Area
- ☐ Other (Specify) _____
- ☐ Delivery Problem
- ☐ Unknown

Cause of Federal Release (check appropriate category):

- ☐ Spill
- ☐ Overfill
- ☐ Physical/Mechanical Damage
- ☐ Loose Fittings
- ☐ Installation Problem
- ☐ Vapor Release
- ☐ Other (Specify) _____
- ☐ Corrosion
- ☐ Unknown

SECTION G. CASE TYPE: (check all that apply)

- ☐ Child Care Center
- ☐ School
- ☐ School Development Authority (SDA)
- ☐ UST Grant/Loan
- ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☐ Administrative Consent Order (ACO)
- ☐ Remediation Agreement (RA)/Remediation Certification
- ☐ Brownfield Development Area (BDA)
- ☐ Site is located within an economic development priority area
- ☐ ISRA
- ☐ Regulated Underground Storage Tank (UST)
- ☐ Landfill
- ☐ Federal oversight (RCRA, CERCLA, USDOD, TSCA, etc.)
- ☐ Coal Gas
- ☐ Chrome Site (Chromate chemical production waste)
- ☒ Spill Act Discharge
- ☐ Government Entity
- ☐ Not Applicable

SECTION H. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: The City of Hoboken

Representative First Name: Quentin Representative Last Name: Wiest

Title: Business Administrator

Phone Number: (201) 420-2059 Ext: Fax: (201) 420-9513

Mailing Address: 94 Washington Street

City/Town: Hoboken State: New Jersey Zip Code: 07030

Email Address: qwiest@hobokennj.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Quentin Wiest Date: 6-11-12

Name/Title: Quentin Wiest/Business Administrator **No Changes Since Last Submittal** ☐

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

New Jersey Department of Environmental Protection
Site Remediation Program
PRELIMINARY ASSESSMENT / SITE INVESTIGATION
(Also Use this Form For UST Unknown Source Investigations)

Date Stamp
(For Department use only)

A Phase I or Phase II is not equivalent to a Preliminary Assessment; therefore, it will not be an acceptable substitution.

SECTION A. SITE NAME AND LOCATION

Site Name: Block 12, Lots 1-7, 9, 11-18

List all AKAs:

Street Address: 57-69 Harrison Street, 51-59 Paterson Avenue, & 58-64 Jackson Street

Municipality: City of Hoboken (Township, Borough or City)

County: Hudson Zip Code: 07030

Incident Number(s)/Com. Center Number(s):

Program Interest (PI) Number(s): 585028 Case Tracking Number(s):

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2:

State Plane Coordinates for a central location at the site: Easting: 619,035 Northing: 694,045

Municipal Block(s) and Lot(s):

Block #	12	Lot #	1, 2, 3, 4, 5, 6, 7, 9,	Block #	12	Lot #	11, 12, 13, 14, 15,
Block #	12	Lot #	16, 17, and 18	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☒ No

If "Yes," please list the Case Manager:

SECTION C. SUBMITTAL STATUS

	Not Applicable	Included in this Submission	Previously Submitted	Date Of Submission	Date of Revised Submission	Date of Document Withdrawal
Public Notification	☒	☐	☐			
Immediate Environmental Concern Report	☒	☐	☐			
IEC Engineered System Response Action Report	☒	☐	☐			
Vapor Concern Mitigation Report	☒	☐	☐			
LNAPL Interim Remedial Measure Report	☒	☐	☐			
Preliminary Assessment Report	☐	☒	☐			
Receptor Evaluation	☒	☐	☐			
Site Investigation Report	☐	☒	☐			
Remedial Investigation/Remedial Action Work Plan	☒	☐	☐			
Remedial Action Report	☒	☐	☐			
Response Action Outcome	☒	☐	☐			
Alternative Soil Remediation Standard and/or Screening level Application Form	☒	☐	☐			
Case Inventory Document	☐	☒	☐			

Permit Application – list:	☒	☐	☐			
	☐	☐	☐			
	☐	☐	☐			
	☐	☐	☐			
Radionuclide Remedial Investigation Workplan	☒	☐	☐			
Radionuclide Remedial Investigation Report	☒	☐	☐			
Radionuclide Remedial Action Workplan	☒	☐	☐			
Radionuclide Remedial Action Report	☒	☐	☐			

SECTION D. SITE USE

Current Site Use (check all that apply)

- ☐ Industrial
- ☒ Residential
- ☒ Commercial
- ☐ School or child care
- ☐ Other: _____
- ☐ Agricultural
- ☐ Park or recreational use
- ☒ Vacant
- ☐ Government

Intended Future Site Use, if known (check all that apply)

- ☐ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☒ Park or recreational use
- ☐ Vacant
- ☐ Government
- ☐ Future site use unknown

SECTION E. CASE TYPE: (check all that apply)

- ☐ Child Care Facility
- ☐ School facility
- ☐ School Development Authority (SDA)
- ☐ UST Grant/Loan
- ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☐ Administrative Consent Order (ACO)
- ☐ Remediation Agreement (RA)
- ☐ Brownfield Development Area (BDA)
- ☐ Site is located within an economic development priority area
- ☐ ISRA
- ☐ Regulated Underground Storage Tank (UST)
- ☐ Landfill
- ☐ Federal oversight (RCRA, CERCLA, DOD, TSCA, etc.)
- ☐ Coal Gas
- ☐ Chrome Site (Chromate chemical production waste)
- ☒ Spill Act Discharge
- ☒ Due Diligence with RAO
- ☐ Not Applicable

SECTION F. PUBLIC FUNDS

Did the remediation utilize public funds? ..... ☒ Yes ☐ No

If "Yes," check applicable:

- ☐ UST Grant
- ☐ HDSRF Grant
- ☐ Spill Fund
- ☐ UST Loan
- ☐ HDSRF Loan
- ☐ Schools Development Authority
- ☐ Brownfield Reimbursement Program
- ☐ Landfill Reimbursement Program
- ☒ NJDEP Green Acres Program

SECTION G. GENERAL

1. Was an inspection of the site conducted? ..... ☒ Yes ☐ No ☐ NA
   Date of the inspection 10/17/2011
2. Did the PA identify any areas of concern? ..... ☒ Yes ☐ No ☐ NA
   If "Yes," please complete section H2.
3. What page or appendix is the site map indicating all of the areas of concern located? Figure 1
4. Did the PA identify any current or historic industrial, commercial, agricultural or residential use at the site dating back to the time the site was naturally vegetated? ..... ☒ Yes ☐ No ☐ NA
   If "Yes," please complete section H1.
5. Prior to this submittal have any NFAs/RAOs been issued for this site? ..... ☐ Yes ☒ No
   a. Does the site currently have a Deed Notice? ..... ☐ Yes ☒ No
   b. Does the site currently have a CEA? ..... ☐ Yes ☒ No
   c. Has an order of magnitude evaluation been performed? ..... ☐ Yes ☒ No
6. Is the ground water at the site classified as a Class I Ground Water? ..... ☐ Yes ☒ No
7. Are there potable wells on-site? ..... ☐ Yes ☒ No

8. Has a well search been conducted pursuant to N.J.A.C. 7:26E-1.17? ☐ Yes ☒ No

   a. If "Yes," are there any potable wells within 200' of the AOCs listed in H2 or within 200' of the site boundary? ☐ Yes ☐ No

9. Is an environmentally sensitive natural resource (ESNR) present on, adjacent to, or potentially impacted by the site? ☐ Yes ☒ No

   a. If "Yes," are there visible signs of impact/impairment (e.g., discolored media, stressed vegetation, discharge/spill, seeps, fish kill)? ☐ Yes ☐ No

   b. Provide a scaled figure that documents the presence or absence of an ESNR.

10. Has the site investigation been completed for:

    Specific Areas Of Concern (AOC)s? ☐ Yes ☒ No

    Entire Site based on a PA? ☒ Yes ☐ No

11. Have all of the potentially contaminated AOCs identified in the PA been addressed within the regulatory timeframe? ☒ Yes ☐ No ☐ NA

SECTION H. SITE INFORMATION

H1. Current and Historic Operators/Operations (attach additional sheets as necessary)

Name of Operator	Type of Operation – e.g., dry cleaning, electro-plating, residence	Dates of Operation	
		Start	End
	*** Please See Attached Sheet ***		

H2. Areas of Concern (For PA or PA/SI Report, list each AOC; for SI Report, list only AOCs documented in this submittal.)

	Area of Concern	Currently Exists? ☒ if "Yes"	Formerly Existed? ☒ if "Yes"	Investigation: SI Conducted ☒ if "Yes"	Investigation: RI Proposed ☒ if "Yes"
1	Above ground storage tank and associated piping	☐	☐	☐	☐
2	Area of stressed vegetation	☐	☐	☐	☐
3	Area which receives flood or storm water from potentially contaminated areas	☐	☐	☐	☐
4	Chemical storage cabinet and closet	☐	☐	☐	☐
5	Compressor vent discharge	☐	☐	☐	☐
6	Discharge area pursuant to N.J.A.C. 7:1E	☐	☐	☐	☐
7	Discolored or spill area	☐	☐	☐	☐
8	Drainage swale and culvert	☐	☐	☐	☐
9	Drywell and sump	☐	☐	☐	☐
10	Dumpster	☐	☐	☐	☐
11	Electrical transformer and capacitor	☐	☐	☐	☐
12	Floor drain collection system	☐	☐	☐	☐
13	Former agricultural applied pesticide area	☐	☐	☐	☐
14	Hazardous material storage or handling area	☐	☐	☐	☐
15	Historic fill or any other fill material	☒	☐	☒	☐

16 Hydraulic lift	☐	☐	☐	☐
17 Incinerator	☐	☐	☐	☐
18 Landfill or landfarm	☐	☐	☐	☐
19 Loading and unloading area	☐	☐	☐	☐
20 Non-contact cooling water discharge	☐	☐	☐	☐
21 Open area away from production area	☐	☐	☐	☐
22 Piping, above ground and below ground pumping station, sump and pit	☐	☐	☐	☐
23 Process area sink and piping which receive process waste	☐	☐	☐	☐
24 Rail car	☐	☐	☐	☐
25 Roof leader when process operations vent to the roof	☐	☐	☐	☐
26 Septic system, leachfield or seepage pit	☐	☐	☐	☐
27 Silo	☐	☐	☐	☐
28 Sprayfield	☐	☐	☐	☐
29 Storage pad including drum and/or waste storage	☐	☐	☐	☐
30 Storm sewer and spill containment collection system	☐	☐	☐	☐
31 Storm water detention pond and fire pond	☐	☐	☐	☐
32 Surface impoundment and lagoon	☐	☐	☐	☐
33 Surface water body	☐	☐	☐	☐
34 Underground piping including industrial process sewer	☐	☐	☐	☐
35 Underground storage tank and associated piping	☐	☐	☐	☐
36 Waste pile as defined by N.J.A.C. 7:26	☐	☐	☐	☐
37 Waste water treatment	☐	☐	☐	☐
38 Other:	☐	☐	☐	☐

H3. **Complete this section only if an ISRA waiver was issued or an ISRA NFA was issued under an expedited review or Limited Site Review.**

ISRA Case #	Expedited Review	Limited Site Review	Remediation In Progress Waiver	Regulated UST Waiver	Date	Comments
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		

H4. **REGULATED USTs: Complete if any underground storage tanks (USTs) on site are regulated pursuant to N.J.A.C. 7:14B or if a UST Unknown Source Investigation was conducted pursuant to N.J.A.C. 7:14B-7.4.**

Have all the regulated USTs on site been registered with the Department? ..... ☐ Yes ☐ No

Have all incidents related to regulated USTs been remediated/investigated? ..... ☐ Yes ☐ No

Have any USTs been removed on/after September 4, 1990? ..... ☐ Yes ☐ No

Including this submittal, has an SI/RI report been submitted for all USTs closed on/after September 4, 1990? ..... ☐ Yes ☐ No

Was an Unknown Source Investigation conducted per N.J.A.C. 7:14B-7.4? ..... ☐ Yes ☐ No
If "No" skip to H5.

1) Did the investigation identify contamination? ☐ Yes ☐ No
If "No" skip to H5.

2) Was an ongoing release discovered? ☐ Yes ☐ No
If "No" skip to H5.

3) Was the UST system emptied and taken out-of-service? ☐ Yes ☐ No
(Note: A UST Facility Certification Questionnaire must be submitted to update the registration.)

H5. Compliance Check (Complete only if sampling of soil and/or ground water was conducted)

a. Identify the media if impacted above applicable standards/screening levels (check all that apply):
☒ soil ☒ ground water

b. Type of contamination in soil and ground water above applicable standards/screening levels (check all that apply):

Soil	Ground Water	
☐	☐	Volatile Organics
☒	☒	Polycyclic Aromatic Hydrocarbons(PAHs)
☐	☐	Acid Extractables
☐	☐	Base Neutrals (non-PAHs)
☒	☒	Metals
☐	☐	Pesticides
☐	☐	PHC
☐	☐	PCBs
☐	☐	Chromium
☐	☐	Dioxin
☐	☐	Mercury
☒	☒	Arsenic
☐	☐	Perchlorate, RDX, TNT, etc.
☐	☐	Other, specify _____

c. For all AOCs at which a SI was conducted, but no RI/RA is proposed:

1) Are any soil analytical results greater than the most stringent Direct Contact Soil Remediation Standards (DCSRS)? ☒ Yes ☐ No

2) Are any soil analytical results greater than the default Impact to Ground Water Soil Screening Levels (IGWSSL)? ☒ Yes ☐ No

3) Are any ground water analytical results greater than the Ground Water Quality Standards (GWQS)? ☒ Yes ☐ No ☐ NA

4) Are any Method Detection Limits (MDLs) greater than the applicable soil and/or ground water standards or screening levels? ☐ Yes ☒ No

5) Are any surface water analytical results greater than the most stringent, both human and ecological, Surface Water Quality Standards? ☐ Yes ☐ No ☒ NA

6) Are any sediment analytical results above the screening levels? ☐ Yes ☐ No ☒ NA

7) Are any analytical results above the vapor intrusion screening levels? ☐ Yes ☒ No ☐ NA

8) Did the SI document, via a background investigation, outside the influence of onsite AOCs and operational areas, determine that:

a) contamination is migrating onto this site per N.J.A.C. 7:26E-3.7(g)? ☐ Yes ☒ No ☐ NA

b) contamination is naturally occurring per N.J.A.C. 7:26E-3.10? ☐ Yes ☒ No ☐ NA

c) Contamination is associated with an ongoing ISRA remediation. ☐ Yes ☒ No ☐ NA

d. Have Alternative Remediation Standards (ARS) been utilized for Inhalation and/or Ingestion/Dermal pathways? ☐ Yes ☒ No

e. Have any site specific Impact to Groundwater Soil Remediation Standards (IGWSRS) been established? ☐ Yes ☒ No

f. Complete if "Yes" to question b.) 1-4, c. or d. List affected AOC(s) below; attach additional sheets if necessary.

Area of Concern (from H2. above)	Exceeds DCSRS	Exceeds IGWSSL	Exceeds GWQS	MDLs > Standards	ARS	Site Specific IGWSRS	Comments
Potential USTs	☒	☒	☒	☐	☐	☐	Soil and G.W. contaminant due to AOC-1 historic fill
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	

	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
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SECTION I. ALTERNATIVE STANDARD / VARIANCES

Alternative remediation standard

If proposing an alternative remediation standard pursuant to N.J.A.C. 7:26D-7.4, or alternate vapor intrusion screening level, check here ☐ and attach the Alternative Soil Remediation Standard and/or Screening Level Application Form as an addendum.

A site-specific screening level was developed for the evaluation of the VI pathway ..... ☐ Yes ☒ No

Variance from regulations

If the Licensed Site Remediation Professional has varied from the Technical Rules, provide the citation(s) from which the remediation varied and the page(s) in the attached document where the rationale for the variance is provided.

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

SECTION J. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: The City of Hoboken

Representative First Name: Quentin Representative Last Name: Wiest

Title: Business Administrator Business Affiliation: _____

Phone Number: (201) 420-2059 Ext: _____ Fax: (201) 420-9513

Mailing Address: 94 Washington Street

City/Town: Hoboken State: New Jersey ZIP Code: 07030

Email Address: qwiest@hobokennj.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am aware that it is a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Quentin Wiest Date: 8-7-12

Print Name/Title: Quentin Wiest, Business Administrator **No Changes Since Last Submittal** ☐

ECTION K. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

SRP ID Number: 550658

irst Name: Stephen Last Name: Boswell

hone Number: (201) 373-8905 Ext: Fax: (201) 641-1757

Mailing Address: 330 Phillips Avenue

City/Town: South Hackensack State: New Jersey Zip Code: 07606

Email Address: environmental@boswellengineering.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Stephen T. Boswell Date: 8/7/2012

LSRP Name/Title: Stephen T. Boswell, Ph.D., P.E., LSRP/President, CEO **No Changes Since Last Submittal** ☐

Company Name: Boswell McClave Engineering

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

APPENDIX I

SRP Case Oversight Report, NJDEP Website, TBD

APPENDIX J

NJDEP Media Specific Remediation Standards

This is a courtesy copy of this rule. All of the Department's rules are compiled in Title 7 of the New Jersey Administrative Code.

N.J.A.C. 7:9C

Ground Water Quality Standards

Statutory Authority: N.J.S.A. 58:10A-1 et seq. and 58:11A-1 et seq.

Date Last Amended: July 22, 2010 (see August 16, 2010 New Jersey Register)
For regulatory history and effective dates, see the New Jersey Administrative Code.

THIS IS A COURTESY COPY OF THIS RULE. SHOULD THERE BE ANY DISCREPANCIES BETWEEN THIS TEXT AND THE OFFICIAL VERSION OF THE PROPOSAL, THE OFFICIAL VERSION WILL GOVERN.

CHAPTER 9C
GROUND WATER QUALITY STANDARDS

SUBCHAPTER 1. GROUND WATER QUALITY STANDARDS

7:9C-1.1 Scope of chapter

(a) Unless otherwise provided by statute, this chapter constitutes the rules of the Department of Environmental Protection concerning ground water classification, designated uses of ground water, and ground water quality criteria and constituent standards, pursuant to the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and the Water Quality Planning Act (N.J.S.A. 58:11A-1 et seq.).

(b) This chapter provides the basis for protection of ambient ground water quality, through the establishment of constituent standards for ground water pollutants. These constituent standards are applicable to the development of: ground water protection standards pursuant to the New Jersey Pollutant Discharge Elimination System (NJPDES; N.J.A.C. 7:14A); ground water remediation standards; and other requirements and regulatory actions applicable to discharges that cause or may cause pollutants to enter the ground waters of the State, including non-point and diffuse sources regulated by the Department. Other relevant laws through which the Ground Water Quality Standards may be applied include, but are not limited to, the Spill Compensation and Control Act (N.J.S.A. 58:10-23.11 et seq.), the Brownfield and Contaminated Site Remediation Act (N.J.S.A. 58:10B-1 et seq.), the Site Remediation Reform Act (N.J.S.A. 58:10C-1 et seq.), the Solid Waste Management Act (N.J.S.A. 13:1E-1 et seq.), the Industrial Site Recovery Act (N.J.S.A. 13:1K-6 et seq.), the Underground Storage of Hazardous Substances Act (N.J.S.A. 58:10A-21 et seq.), the Realty Improvement Sewerage and Facilities Act (N.J.S.A. 58:11-23 et seq.), and the Pesticide Control Act of 1971 (N.J.S.A. 13:1F-1 et seq.).

(c) This chapter constitutes the Department's primary basis for setting numerical criteria for limits on discharges to ground water and standards for ground water remediation.

7:9C-1.2 Policies

(a) It is the policy of this State to restore, enhance and maintain the chemical, physical, and biological integrity of its waters, to protect public health, to safeguard fish and aquatic life and scenic and ecological values, and to enhance the domestic, municipal, recreational, industrial and other uses of water.

(b) Discharges to ground water that subsequently discharges into surface waters shall not be permitted by the applicable regulatory program if such discharges would cause a contravention of surface water quality standards applicable to those surface waters. That is, those discharges must achieve compliance with both these standards and the surface water quality standards (N.J.A.C. 7:9B).

(c) When existing ground water quality does not meet the constituent standards determined pursuant to N.J.A.C. 7:9C-1.7, 1.8 and 1.9, due to human activities, the Department shall, after a review of relevant and available scientific and technical data, determine in the context of the applicable regulatory programs the management actions necessary (including, but not limited to, the requirement of remedial actions) to restore or enhance ground water quality pursuant to the policies of this chapter.

(d) The Department shall not approve discharges or activities posing a significant risk of discharges, within the jurisdiction of and subject to regulation by the Pinelands Commission, that would contravene the rules of the Pinelands Commission with regard to the protection of ground water or surface water quality.

7:9C-1.3 Construction

This chapter shall be liberally construed to permit the Department to implement its statutory functions.

7:9C-1.4 Definitions

The following words and terms, when used in this subchapter, shall have the following meanings:

“ACL” means alternative concentration limit.

"Agricultural water" means water used for crop production, livestock, horticulture and silviculture.

"Alternative concentration limit" or “ACL” means a constituent standard or narrative description of actions, discharge controls and water quality requirements that is less stringent than the ground water quality requirements of N.J.A.C. 7:9C-1.7, 1.8 and 1.9, due to a Departmental determination pursuant to NJPDES regulations (N.J.A.C. 7:14A-10.8(b)). In order to approve an ACL, the Department must find that the relevant constituent standard(s) cannot be achieved through technologically practicable means.

"Applicable regulatory program" means any of the Department's programs which implement the regulations issued pursuant to the statutes cited in N.J.A.C. 7:9C-1.1(b) or in any other regulations that specifically cite this chapter.

"Aquifer" means a saturated geologic formation(s) or unit(s) which is sufficiently permeable to transmit water to a pumping well in usable and economic quantities. The upper level of an unconfined aquifer may vary over time; "aquifer" applies to the full saturated zone at any time.

"Aquitard" means a hydrogeologic confining unit(s) that exhibits limited permeability, bounding one or more aquifers, that does not readily yield water to wells or springs, but may serve as a storage unit for ground water and may release this water to adjacent ground water

units or surface waters. Such confining units are further defined and listed in N.J.A.C. 7:9C-1.5(f)1 or may be established through reclassification under N.J.A.C. 7:9C-1.10.

"Background water quality" means the concentration of constituents in ground water which is determined to exist directly upgradient of a discharge but not influenced by the discharge, or is otherwise representative of such concentration of constituents as determined using methods and analyses consistent with the requirements of N.J.A.C. 7:14A-10.11(g).

“Carcinogen” means a constituent capable of inducing a cancer response, including Group A (Human Carcinogen), Group B (Probable Human Carcinogen) or Group C (Possible Human Carcinogen) categorized in accordance with the USEPA Guidelines for Carcinogen Risk Assessment, 51 Fed. Reg. 33992, 1986, incorporated herein by reference, as amended or supplemented.

"Classification area" means the geographic extent (lateral and vertical) of a geologic formation(s) or unit(s) wherein ground water is classified for designated uses, as described in N.J.A.C. 7:9C-1.5.

"Classification exception area" means an area within which one or more constituent standards and designated uses are suspended in accordance with N.J.A.C. 7:9C-1.6.

“Conservation restriction” means the restricting of development on property as that term is defined under the New Jersey Conservation Restriction and Historic Preservation Restriction Act, N.J.S.A. 13:8B-1 et seq.

"Constituent" means a specific chemical substance (that is, element or compound) or water quality parameter (for example, temperature, odor, color).

"Constituent standard" means the required maximum level or concentration or the required range of levels or concentrations (as applicable) for a constituent in a classification area, as established in N.J.A.C. 7:9C-1.7, 1.8 and 1.9(a) and (b). The constituent standards shall be the basis for the Department's regulation of ground water quality effects of past, present or future discharges to ground water or the land surface, pursuant to applicable authorities as defined in N.J.A.C. 7:9C-1.1.

"Conventional water supply treatment" means the chemical and physical treatment of ground water supplies for microbiological contaminants and undesirable naturally occurring substances resulting in treated water that meets all the primary and secondary standards for those constituents stipulated by the New Jersey Safe Drinking Water Act regulations (N.J.A.C. 7:10-12.1 et seq.)

"Criteria" means ground water quality criteria.

"Department" means the New Jersey Department of Environmental Protection.

"Designated use" means a present or potential use of ground water which is to be maintained, restored and enhanced within a ground water classification area, as determined by N.J.A.C. 7:9C-1.5. Designated uses may include any human withdrawal of ground water (for example, for potable, agricultural and industrial water), the discharge of ground water to surface waters of the State which support human use or ecological systems, or the direct support of ecological systems.

"Discharge" means an intentional or unintentional action or omission resulting in the releasing, spilling, leaking, pumping, pouring, emitting, emptying or dumping of a pollutant at any time into the waters of the State, onto land or into wells from which it might flow or drain into said waters, or into waters or onto lands outside the jurisdiction of the State, which pollutant enters the waters of the State. "Discharge" includes, without limitation, the release of any pollutant into a municipal treatment works.

"Discharger" means any person, corporation, municipality, government agency or authority or other legal entity, who causes or allows a discharge, either through action or omission.

"Extensive exceedance", as used in N.J.A.C. 7:9C-1.10, means a condition where ground water quality in an area exceeds the criteria of N.J.A.C. 7:9C-1.7 for one or more constituents over the vast majority of the subject area for such constituent(s) and that such exceedances are not attributable to the past or present discharges of a single discharger or any group of active NJPDES permitted discharges.

"FW1" means those surface fresh waters defined as such in the Surface Water Quality Standards, N.J.A.C. 7:9B and shown on maps maintained by the Department.

"Ground water" means the portion of water beneath the land surface that is within the saturated zone.

“Ground water quality criteria” means the designated levels or concentrations of constituents that, when exceeded, will prohibit or significantly impair a designated use of water. Criteria may be “specific” (listed for each constituent in Appendix Table 1), “interim specific” (derived using a standard method, for constituents not listed in Appendix Table 1), or “interim generic” (as listed for carcinogenic and non-carcinogenic Synthetic Organic Chemicals in Appendix Table 2).

"Hazardous pollutant" means:

1. Any toxic pollutant;
2. Any substance regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act, Pub.L.92-516 (7 U.S.C. _ 136 et seq.);
3. Any substance the use or manufacture of which is prohibited under the Federal Toxic Substances Control Act, Pub.L.94-469 (15 U.S.C. _ 2601 et seq.);
4. Any substance identified as a known carcinogen by the International Agency for Research on Cancer;

5. Any hazardous waste as designated pursuant to section 3 of P.L.1981, c.279 (N.J.S.A.13:1E-51) or the "Resource Conservation and Recovery Act," Pub.L.94-580 (42 U.S.C. 6901 et seq.); or
6. Any hazardous substance as defined pursuant to section 3 of P.L.1976, c.141 (N.J.S.A. 58:10-23.11b).

"HUC 11" or "hydrologic unit code 11" means an area within which water drains to a particular receiving surface water body, also known as a watershed, which is identified by an 11-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey.

"Industrial water" means water used for processing, heating or cooling in a manufacturing process.

"Natural Area" means an area of land or water, designated by the Department under N.J.A.C. 7:5A-1.13 and shown on maps maintained by the Office of Natural Lands Management, Division of Parks and Forestry, of the Department, which is owned in fee simple or in which a conservation restriction is held by the Department.

"Natural quality" means the concentration or level of constituents which occurs in ground water of a hydrologic unit without the influence of human activity, other than the effects of regional precipitation of air pollutants (for example, acid precipitation). The natural quality for SOCs is established as zero (0.0) except where the SOCs are the result of air transport from outside the State, enter the State from ground water transport of pollutants having their origins in other states, or are created entirely by natural processes. Where natural quality for other constituents is not ascertainable from generally acceptable scientific studies, the lowest concentrations known to exist within the same or a similar hydrologic unit and setting (that is, depth) within the classification area shall be used to represent the natural quality, provided, however, that for pH, corrosivity and hardness, the most representative concentration shall be used.

"Non-carcinogen" means a constituent not categorized as a carcinogen, including Group D (Not Classifiable as to Human Carcinogenicity) or Group E (Evidence of Non-Carcinogenicity for Humans) categorized in accordance with the USEPA Guidelines for Carcinogen Risk Assessment, 51 Fed. Reg. 33992, 1986, incorporated herein by reference, as amended or supplemented.

"NJPDES" means the New Jersey Pollutant Discharge Elimination System (N.J.A.C. 7:14A).

"NJPDES permit action" means a draft or final NJPDES permit, a permit equivalent, or a decision that a discharge is not to be regulated by NJPDES, as determined pursuant to the NJPDES regulations.

"Organoleptic effect" means an offensive taste, foul odor or other adverse aesthetic consequence caused by pollutants in a water supply and rendering the water supply unfit for potable use.

"PQL" means practical quantitation level.

"Pollutant" means any dredged spoil, solid waste, incinerator residue, sewage, garbage, refuse, oil, grease, sewage sludge, munitions, chemical wastes, biological materials, radioactive substance, thermal waste, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal or agricultural or other residue discharged into the waters of the State. "Pollutant" includes both hazardous and nonhazardous pollutants. "Industrial, municipal or agricultural or other residue" specifically includes, without limitation, constituents that are not considered wastes (that is, process chemicals) prior to discharge, but which are discharged and may or do degrade natural or existing ground water quality.

"Potable water" means water suitable for household consumption, primarily as drinking water, based upon human health, welfare and aesthetic considerations.

"Practical quantitation level" (PQL) means the lowest concentration of a constituent that can be reliably achieved among laboratories within specified limits of precision and accuracy during routine laboratory operating conditions. "Specified limits of precision and accuracy" are the criteria which have been included in applicable regulations including, but not limited to, those regulations listed at N.J.A.C. 7:9C-1.9 or are listed in the calibration specifications or quality control specifications of an analytical method.

"Saturated Zone" means the zone in which all the subsurface voids in the rock or soil are filled with water.

"SOC" means Synthetic Organic Chemical.

"Soils" means any naturally occurring or man-made unconsolidated mineral and organic matter on the surface of the earth that has been subjected to and influenced by geologic and environmental factors. "Soils" also includes fill or overburden.

"Source water" means the supply source of water (for example, private wells, public water supply) to a discharger, where the source water becomes part of a discharge.

"Surface water" means water at or above the land's surface which is neither ground water nor contained within the unsaturated zone. "Synthetic organic chemicals" (SOCs) means any compounds that contain at least one carbon atom and that result from purposeful chemical synthesis, whether as products, by-products, or waste, or from the purposeful refinement of naturally occurring substances. Where a chemical substance is sometimes found in nature and sometimes synthesized, it shall be considered an SOC only to the extent or in the proportion produced or isolated by human activity. Naturally occurring organic chemicals in their natural location are not considered a pollutant pursuant to the Ground Water Quality Standards. An

SOC may be considered to be in its natural location, if, by background sampling and modeling, it is shown that such SOC has migrated to that point from the place it naturally occurred.

"Technologically practicable means" means the best available treatment or remedial technology, from an engineering perspective; "best" means that technology which achieves the most stringent numerical values attainable for a constituent at a contaminated site or for a NJPDES-regulated discharge; "available" means field-demonstrated technology although such technology need not be in common commercial use.

"Toxic pollutant" means any pollutant identified pursuant to the Federal Water Pollution Control Act Amendments of 1972 (Pub.L.92-500, 33 U.S.C. _ 1251 et seq.), or any pollutant or combination of pollutants, including disease causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly or indirectly by ingestion through food chains, will, on the basis of information available to the Department, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformation, in such organisms or their offspring.

"USEPA" means the United States Environmental Protection Agency.

"Unsaturated zone" (vadose zone) means the subsurface volume between the land's surface and the top of a saturated zone.

"Waters of the State" means the ocean and its estuaries, all springs, streams and bodies of surface or ground water, whether natural or artificial, within the boundaries of this State or subject to its jurisdiction.

"Zone of Contribution" means the volume of a geologic formation or unit that directly contributes ground water to a pumping well over time, or a Well Head Protection Area as defined by the Department pursuant to the Federal Safe Drinking Water Act Amendments of 1986.

7:9C-1.5 Ground water classification system and designated uses

(a) Ground water is classified according to the hydrogeologic characteristics of the ground water resource and the designated use(s) which are to be maintained, restored and enhanced within the classification area. Classifications are regional in nature and do not reflect localized infringements on designated uses due to natural quality or pollution incidents. Ground water users should not assume that existing ground water quality everywhere meets the criteria for classification areas established herein, in view of the potential for variations in natural quality or for localized pollution caused by human activity. Additional uses may be made of ground water in any classification area, subject to applicable Department rules, but these uses are not directly protected through this chapter.

(b) The Department shall preferentially protect the primary designated use for each classification area, and shall protect any secondary designated uses to the extent that such uses are viable using water of sufficient quality for the primary use and that the primary use is not impaired.

(c) There are three major classes of ground water, as defined in paragraphs (d) through (f) below. They are:
- Class I Ground Water of Special Ecological Significance
- Class II Ground Water for Potable Water Supply
- Class III Ground Water With Uses Other Than Potable Water Supply

(d) The primary designated use for Class I ground water is the maintenance of special ecological resources supported by the ground water within the classification area. Secondary designated uses are potable water, agricultural water and industrial water to the extent that these uses are viable using water of natural quality and do not impair the primary use, such as by altering ground water quality.

1. Class I-A - Exceptional Ecological Areas: Class I-A ground water shall consist of all ground waters within those classification areas, listed at (d)1(iii) below or designated by the Department through the reclassification procedure in N.J.A.C. 7:9C-1.10, which satisfy either (d)1i or ii below. In addition, ground waters within those areas listed in (d)1iii below are classified as Class I-A ground waters, because the Department has determined that they satisfy the requirements of either (d)i or ii below. The Department may approve a Class I-A classification area if the ground water within that area:

   i. Contributes to the transmittal of ground water to surface water in FW1 watersheds; and

      (1) The area involved is under government ownership (fee simple or conservation restriction); or

      (2) Is owned by a private entity that petitions the Department for reclassification of the property to Class I-A pursuant to N.J.A.C. 7:9C-1.10; or

   ii. Contributes to the transmittal of ground water to the land surface or to surface water in areas of exceptional ecological value. Areas of exceptional ecological value satisfy the conditions described in (d)1ii(1), (2) or (3) below, and also satisfy the conditions described in both (d)1ii(4) and (5) below:

      (1) Support threatened or endangered species as determined by the United States Department of the Interior pursuant to the Endangered Species Act, 16 U.S.C. 1531 et seq., or by the Department pursuant to the Endangered and Nongame Species Conservation Act, N.J.S.A 23:2A-1 et seq.

      (2) Support biotic communities within Natural Areas.

(3) Serve other exceptional ecological values such as being a part of or supporting state, nationally or internationally rare, threatened or endangered habitats where there is a significant risk that ground water pollution would impair or imperil the ecological values.

(4) The quality and transmittal of ground water is essential to the survival or maintenance of the exceptional ecological resource contained within the classification area.

(5) The area involved is of sufficient size to provide meaningful control of ground water quality to protect the target resource, based upon the biotic resource and local hydrogeology and is under government ownership (fee simple or conservation restriction), or is owned by a private entity that petitions the Department for reclassification of the property to Class I-A pursuant to N.J.A.C. 7:9C-1.10.

iii. Ground water within the following areas are herein classified as Class I-A:

(1) Watersheds of FW1 surface waters;

(2) The Natural Areas as designated by the Department pursuant to N.J.A.C. 7:5A-1.13.

2. Class I-PL--Pinelands: The classification area for Class I-PL consists of all ground water in the Cohansey and Kirkwood Formations located within the Pinelands area as designated by the Pinelands Protection Act, N.J.S.A. 13:18A-1 et seq. (as indicated in figure 1 in the Appendix, incorporated herein by reference), other than those ground water areas classified as Class I-A.

i. Class I-PL (Preservation Area): The primary designated use is the support and preservation of unique and significant ecological resources of the Pinelands, through the restoration, maintenance and preservation of ground water quality in its natural state. Secondary designated uses include compatible agricultural uses in conformance with N.J.A.C. 7:50-6 et seq. and potable water uses.

ii. Class I-PL (Protection Area): The primary designated use is the preservation of Pinelands plant and animal species and their habitats through the protection and maintenance of the essential characteristics of Pinelands ground water quality. Secondary designated uses include potable and agricultural water.

(e) The primary designated use for Class II ground waters is the provision of potable ground waters with conventional water supply treatment, either at their current water quality (Class II-A) or subsequent to enhancement or restoration of regional water quality so that the water will be of potable quality with conventional water supply treatment (Class II-B). Both existing and potential potable water uses are included in the designated use.

1. Class II-A shall consist of all ground water of the State, except for ground water designated in Classes I, II-B or III. The primary designated use for Class II-A ground water shall be potable water and conversion (through conventional water supply treatment, mixing or other similar technique) to potable water. Class II-A secondary designated uses include agricultural water and industrial water.

2. Specific Class II-B areas, designated uses and constituent standards will be established through rule or through reclassification pursuant to N.J.A.C. 7:9C-1.10. The designated uses of Class II-B areas generally may include any reasonable use (other than potable use). Designated uses of Class II-B ground water shall not exacerbate existing ground water pollution or impede the ability to enhance or restore the quality of the ground water so that it will be potable or convertible to potable use with conventional water supply treatment, mixing or other similar techniques. Class II-B shall consist only of ground waters:

   i. That exhibit extensive exceedance of one or more of the ground water quality criteria in N.J.A.C. 7:9C-1.7(c) within the proposed Class II-B area, due to past discharges of ground water pollutants;

   ii. Where restoration of the ground water, where polluted, cannot be achieved using technologically practicable means;

   iii. Where the conditions listed in (e)2(1) through (4) below exist within the proposed Class II-B area, and there is no indication in the projections of the Department, public water supply systems serving the area, or municipalities of the area that those conditions will cease to exist within the next 25 years:

      (1) No public community water supply well or Zone of Contribution for such a well exists;

      (2) Less than five percent of the potable water supply for the area subject to the petition is derived from ground water from within the proposed Class II-B area;

      (3) Less than five percent of the potable water supply for any municipality (or portion thereof) within the Class II-B area is derived from ground water from within the proposed Class II-B area; and

      (4) No significant concentration of domestic water supply wells exists;

   iv. Where no significant risk of pollution migration into Class I or II-A areas exists;

   v. Where a reliance on natural attenuation processes can be relied on over the vast majority of the area for the restoration of ground water quality for criteria identified pursuant to (e)2i above and does not pose a significant risk to public health, safety and welfare; and

vi. Where the reclassification requirements of N.J.A.C. 7:9C-1.10 are met.

3. Class II-B Classification Areas-(Reserved)

(f) The Class III ground waters are not suitable for potable water due to natural hydrogeologic characteristics or natural water quality. Class III includes geologic formations or units that are aquitards or have a natural quality that is unsuitable for conversion to potable water (for example, saline ground water).

1. Class III-A ground water consists of ground water in those aquitards that are described below. The primary designated use for Class III-A ground water is the release or transmittal of ground water to adjacent classification areas and surface water, as relevant. Secondary designated uses in Class III-A include any reasonable uses. Class III-A ground water includes portions of the saturated zones (that meet the criteria below) of the Woodbury Formation, Merchantville Formation, Marshalltown Formation, Navesink Formation, Hornerstown Formation, aquitard formations of the Potomac-Raritan-Magothy aquifer system and the Kirkwood aquifer system, portions of the glacial moraine and glacial lake deposits, and other geologic units having the characteristics of an aquitard, excepting Class I areas. These named aquitards (excluding glacial units) outcrop approximately in municipalities depicted in Figure 2 in the Appendix. Class III-A areas shall have the following characteristics:

   i. Average at least 50 feet in thickness within the Class III-A area;

   ii. Have a typical hydraulic conductivity of approximately 0.1 ft/day or less within the Class III-A area; and

   iii. Have an areal extent within the Class III-A area of at least 100 acres.

2. Any interested party may provide evidence to the Department to demonstrate that an area meets the descriptive criteria of Class III-A. Upon review and verification of such evidence the Department may provide concurrence that the Class III-A classification applies to the area of interest.

3. Class III-B ground water consists of all geologic formations or units which contain ground water having natural concentrations or regional concentrations (through the action of salt-water intrusion) exceeding 3,000 mg/l Chloride or 5,000 mg/l Total Dissolved Solids, or where the natural quality of ground water is otherwise not suitable for conversion to potable uses. The designated uses for Class III-B ground water consist of any reasonable uses for such ground water other than potable water, using water of existing quality. The classification area includes ground water in parts of formations as indicated in Figures 3 through 5 in the Appendix.

4. Class III-B areas are subject to field verification wherever necessary. Areas not indicated on the maps may also qualify as Class III-B, subject to Department concurrence through an applicable regulatory program. The precise borders of Class III-B areas shall be

confirmed using site specific data in the context of applicable regulatory programs. Any interested party may provide evidence to the Department to demonstrate that an area meets the descriptive criteria of Class III-B. Upon review and verification of such evidence the Department may provide concurrence that the Class III-B classification applies to the area of interest.

7:9C-1.6 Exceptions to the classification system

(a) The Department may establish a Classification Exception Area only when the Department determines that constituent standards for a given classification are not being met or will not be met in a localized area due to: natural quality; localized effects of a discharge approved through a NJPDES permit action; pollution caused by human activity within a contaminated site as defined by the Department in the context of an applicable regulatory program (for example, Site Remediation Program); or an ACL as approved by the Department pursuant to NJPDES. In the context of an applicable regulatory program, the Department shall determine or describe appropriate boundaries for each Classification Exception Area and include the written description of the boundaries in the appropriate permit action along with specifications as to which constituents the exception applies. Classification Exception Areas may only be established when constituent standards are not being met or will not be met due to the conditions set forth above and shall not be established for the purpose of sanctioning violations of constituent standards.

(b) Where natural quality for any constituent contravenes the criteria established in N.J.A.C. 7:9C-1.7 such that the primary designated use is not viable within a limited area, the Department may establish a Classification Exception Area within which the Department shall define appropriate designated uses and constituent standards, based upon the natural quality. Such Classification Exception Areas shall remain in effect as long as the primary designated use of the original classification area is not viable using ground water at natural quality.

(c) Where the Department defines, through a NJPDES permit action, an area of temporary noncompliance with specific constituent standards related to the localized effects of a permitted discharge, the ground water within that area of noncompliance shall be a Classification Exception Area for those constituents only. All other constituent standards shall apply within the Classification Exception Area. All designated uses in these Classification Exception Areas will be suspended during the life of the Classification Exception Area. Constituent standards of the surrounding classification area shall apply at the perimeter of the Classification Exception Area for the specified constituents. The Classification Exception Area shall have the same life as the approved NJPDES permit action, after which the original classification, designated uses and constituent standards shall apply.

(d) Where a discharge has resulted or will result in localized ground water quality that contravenes one or more constituent standards, the Department may define that area as a Classification Exception Area for specified constituents pursuant to (or in accordance with) a NJPDES permit action or the remediation of a contaminated site in the context of an applicable regulatory program. All other constituent standards shall apply within the

Classification Exception Area. All designated uses in each Classification Exception Area will be suspended during the life of the Classification Exception Area. Constituent standards of the surrounding classification area shall apply at the perimeter of the Classification Exception Area for the specified constituents. The Department shall restrict or require the restriction of potable ground water uses within any Classification Exception Area where there is or will be an exceedance of the Primary Drinking Water Quality Standards (in N.J.A.C. 7:10). Where the Department defines the Classification Exception Area through a NJPDES permit action, the Classification Exception Area shall have the same life as the approved NJPDES permit action, after which the original classification, designated uses and constituent standards shall apply. Other regulatory actions creating the Classification Exception Area shall specify the longevity of the exception, after which the original classification, designated uses and constituent standards shall be applicable.

7:9C-1.7 Ground water quality criteria

(a) Ground water quality criteria for Class I-A areas are the natural quality for each constituent. Class I-A is a nondegradation classification where natural quality is to be maintained or restored. The Department shall not approve any discharge to ground water or approve any human activity which results in a degradation of natural quality within a Class I-A classification area.

(b) Ground water quality criteria for Class I-PL are as follows:

1. Within Class I-PL (Preservation Area), ground water quality criteria shall be the natural quality for each constituent. Class I-PL (Preservation Area) is a nondegradation classification in which natural quality shall be maintained or restored. The Department shall not approve any discharge or any other activity which would result in the degradation of natural quality within a Class I-PL (Preservation Area) classification area. However, the provisions of this paragraph (b)1 shall not apply to activities that are in conformance with N.J.A.C. 7:50-6 et seq.

2. Ground water quality criteria for Class I-PL (Protection Area) shall be the background water quality. The Department shall not approve any discharge or any other activity which would result in the degradation of background water quality in the Class I-PL (Protection Area) classification area. However, the provisions of this paragraph (b)2 shall not apply to activities that are in conformance with N.J.A.C. 7:50-6 et seq.

3. The Department shall not approve any discharge to ground water within the Class I-PL classification area which results in a violation of the Surface Water Quality Standards applicable to the Pinelands National Reserve, as established in N.J.A.C. 7:9B or successor rules.

(c) Ground water quality criteria for Class II-A areas are established as follows:

1. Specific criteria for ground water quality in Class II-A areas are listed in Appendix Table 1.

2. The Department may establish an interim specific criterion, pursuant to (c)3 below, for a constituent not listed in Appendix Table 1.

   i. The Department shall maintain and make available to the public on its website and by request a listing of all interim specific criteria and the supplemental information used in their derivation.

   ii. Interim specific criteria shall be replaced with specific criteria as soon as reasonably possible by rule.

3. The Department shall establish ground water quality criteria as follows:

   i. If the Department promulgates in the Safe Drinking Water Act rules at N.J.A.C. 7:10 a maximum contaminant level (MCL) for a constituent, the health-based level used to establish the MCL shall be the specific ground water quality criterion for the constituent.

   ii. For all other constituents, the Department shall develop ground water quality criteria for Class II-A ground water based upon the weight of evidence available regarding each constituent's carcinogenicity, toxicity, public welfare or organoleptic effects, as appropriate for the protection of potable water, pursuant to (c)4 below.

4. The Department shall use the following equations, data sources and conventions at i through iii below to derive specific and interim specific ground water quality criteria:

   i. For constituents classified as carcinogens, the criteria shall be derived using the following equation:

$$\text{Criterion } (\mu g/L) = \frac{\text{Upper Bound Lifetime Excess Cancer Risk} \times \text{Average Adult Weight} \times \text{Conversion Factor}}{\text{Carcinogenic Slope Factor} \times \text{Assumed Daily Water Consumption}}$$

Where the default values are:

Average Adult Weight	= 70 kg
Assumed Daily Water Consumption	= two liters per day
Upper Bound Lifetime Excess Cancer Risk	= 1×10^{-6}
Conversion Factor	= 1,000 μg/mg
Carcinogenic Slope Factor	= value from the United States Environmental Protection Agency (USEPA) Integrated Risk Information System (IRIS) data base, http://www.epa.gov/iris/, incorporated herein by reference, as $(mg/kg/day)^{-1}$

ii. For constituents categorized as non-carcinogens and for constituents classified as carcinogens for which no carcinogenic slope factor is available, the criterion shall be derived using the following equation:

$$\text{Criterion } (u\text{g/L}) = \frac{\text{Reference Dose} \times \text{Average Adult Weight} \times \text{Conversion Factor} \times \text{Relative Source Contribution}}{\text{Assumed Daily Water Consumption} \times \text{Uncertainty Factor}}$$

Where the default values are:

Average Adult Weight	= 70 kg
Relative Source Contribution	= 20 Percent
Assumed Daily Water Consumption	= two liters per day
Conversion Factor	= 1,000 *u*g/mg
Reference Dose	= value from the USEPA IRIS data base, http://www.epa.gov/iris/, incorporated herein by reference, as (mg/kg/day)
Uncertainty Factor	= 10 for carcinogens for which no carcinogenic slope factor is applicable; 1 for non-carcinogens

iii. The criteria derived by the equations in this paragraph shall be rounded to one significant figure.

5. The Department shall publish in the New Jersey Register a notice of administrative change subsequent to (the effective date of this amendment):

i. To modify or add a new specific criterion to Appendix Table 1 when the Department promulgates in the Safe Drinking Water Act rules at N.J.A.C. 7:10 a new or revised maximum contaminant level (MCL) for a ground water constituent; or

ii. To modify a specific criterion in Appendix Table 1 where the USEPA revises the carcinogenic slope factor or reference dose data contained in the Integrated Risk Information System (IRIS) database on which a specific ground water quality criterion in Appendix Table 1 is based.

iii. The notice of administrative change shall identify the constituent, the basis for the administrative change and the revised criterion to be listed in Appendix Table 1.

6. For a Synthetic Organic Chemical not listed in Appendix Table 1, the applicable interim generic criterion in Appendix Table 2 shall apply until an interim specific criterion is developed or a specific criterion is promulgated in accordance with this subsection.

(d) The ground water quality criteria for Class II-B ground waters shall be the Class II-A criteria.

(e) The ground water quality criteria for Class III-A areas shall be the criteria of the most stringent classification for vertically or horizontally adjacent ground waters that are not Class III-A, unless the Department concludes (in the context of an applicable regulatory program) that there is no significant potential for the migration of ground water pollutants to that classification area. If there is significant potential for pollutant migration, the criteria shall be those of the classification area determined to be downgradient of the Class III-A area. If there is no significant potential for pollutant migration, criteria shall be determined for such Class III-A areas on a case by case basis in the context of applicable regulatory programs. In each case where there is no significant potential for pollutant migration, the criteria shall be no more stringent than necessary to ensure that there will be no:

1. Impairment of existing uses of the ground water;

2. Resulting violation of Surface Water Quality Standards;

3. Release of pollutants to the ground surface, structures or air in concentrations that pose a threat to human health;

4. Reasonable potential for a change in hydraulic gradient that could cause pollutants to migrate from the Class III-A area to any classification area other than Class III.

(f) The ground water quality criteria for Class III-B areas shall be determined on an area by area basis in response to case by case needs, in the context of applicable regulatory programs. In each case, the criteria shall be no more stringent than necessary to ensure that there will be no:

1. Impairment of existing uses of ground water;

2. Resulting violation of Surface Water Quality Standards;

3. Release of pollutants to the ground surface, structures or air in concentrations that pose a threat to human health;

4. Violation of constituent standards for downgradient classification areas to which there is a significant potential for migration of ground water pollutants.

(g) Where ground water that receives pollutants from a discharge(s) subsequently flows to surface waters, the Department shall regulate such discharges as necessary so as not to exceed the Surface Water Quality Standards applicable to that body of surface water. The discharger may request application of only the ground water quality standards by showing, to the satisfaction of the Department, and in the context of the applicable regulatory procedure, that the flow of ground water pollutants into the surface water will not cause a violation of the Surface Water Quality Standards.

(h) For constituents for which specific or interim specific criteria have been derived, the Department may evaluate potential toxicological interactions between or among constituents

in ground water by the sum of the risk levels of constituents with health-based criteria that are based on carcinogenic risk, and by utilizing the hazard index approach described in the USEPA Guidelines for the Health Risk Assessment of Chemical Mixtures (51 FR 34014 (1986), and any subsequent revisions) for non-carcinogens. Additional actions and more stringent criteria may be required when either of the following conditions exists:

1. The total risk level for all carcinogens present in ground water exceeds 1×10^{-4}; or

2. There is a Hazard Index of greater than one for non-carcinogenic effects.

(i) The Department shall regulate discharges for compliance with each specific, interim specific and generic criterion applicable to the discharge pursuant to this section.

7:9C-1.8 Antidegradation policy

(a) The Department shall protect existing ground water quality that is better than criteria from significant degradation. The Department shall not approve any further degradation of ground water quality where background water quality contravenes the criteria.

(b) The antidegradation policy at (a) above shall be implemented as follows:

1. The Department shall not approve a new or expanded discharge to Class I ground water if the discharge would result in the degradation of natural quality of the ground water, unless the discharge is to Class I-PL ground water and the project or activity associated with the discharge is in conformance with N.J.A.C. 7:50-6.

2. The Department shall not approve a new or expanded discharge to ground water in the Highlands preservation area unless the project or activity associated with the discharge conforms with the Highlands Water Protection and Planning Act Rules, N.J.A.C. 7:38. "Highlands preservation area" means that portion of the Highlands region so designated by N.J.S.A. 13:20-7b.

3. Excluding those in the Highlands preservation area subject to (b)2 above, the Department shall not approve a discharge from a new or expanded domestic treatment works to Class II or Class III ground water that requires a water quality management plan amendment pursuant to N.J.A.C. 7:15 unless the Department determines, through the plan amendment process, that existing ground water quality will be maintained. A nitrate concentration of 2 mg/L, which is representative of the average existing ground water quality Statewide, shall be used in determining that existing ground water quality is maintained on a HUC 11 basis.

4. Excluding those in the Highlands preservation area subject to (b)2 above, the Department shall not approve a discharge from a new or expanded domestic treatment works to Class II or Class III ground water that requires a NJPDES discharge to ground water permit pursuant to N.J.A.C. 7:14A unless the Department determines, through the NJPDES permit process, that the total nitrate load to the property served by the treatment works,

when expressed as a concentration, shall not exceed 6 mg/L nitrate. The nitrate concentration of 6 mg/L nitrate represents half of the sum of 2 mg/L nitrate, which is representative of the average existing ground water quality Statewide, and the ground water quality criterion for nitrate of 10 mg/L (that is, 10,000 ug/L) set forth in Appendix Table 1.

5. Excluding those in the Highlands preservation area subject to (b)2 above, the Department shall not approve a discharge from a new or expanded industrial treatment works to Class II or Class III ground water that requires a NJPDES industrial discharge to ground water permit pursuant to N.J.A.C. 7:14A unless the Department determines, through the NJPDES permit process, that the total load of each constituent discharged to the property served by the treatment works, when expressed as a concentration, shall not exceed half of the sum of background water quality for that constituent and the applicable ground water quality criterion, where background water quality does not exceed such criterion.

7:9C-1.9 Constituent standard modifications and practical quantitation levels

(a) When constituents at background water quality exceed the criteria in N.J.A.C. 7:9C-1.7, the Department shall consider the following modifications in the development of constituent standards in the context of applicable regulatory programs:

1. For discharges that derive their source water from directly upgradient of the discharge, the constituent standards shall not be more stringent than the background water quality (that is, the source water quality);

2. For other discharges:

   i. In areas where the criteria for the constituent are exceeded within the area due to natural quality, the constituent standards shall be established as the background water quality.

   ii. In other areas, the constituent standards shall be established such that the volume and concentration of ground water exceeding the criteria are not increased by discharges.

(b) The Department may define Classification Exception Areas as provided for in N.J.A.C. 7:9C-1.6 within which the provisions of N.J.A.C. 7:9C-1.7, 1.8 and (a) above do not apply regarding specified constituents.

(c) Where a constituent standard (the criterion as adjusted by the antidegradation policy and applicable criteria exceptions) is of a lower concentration than the relevant PQL (in Appendix Table 1), the Department shall not (in the context of an applicable regulatory program) consider the discharge to be causing a contravention of that constituent standard so long as the concentration of the constituent in the affected ground water is less than the relevant PQL.

1. Where interim specific criteria are derived by the Department, interim PQLs shall also be derived for those constituents as appropriate.

2. Specific PQLs are not provided for interim generic ground water criteria. The numeric interim generic ground water criteria shall be used as the constituent standard unless a PQL applicable for an interim generic criteria is approved by the Department and published with the interim generic criteria in accordance with (c)3 below.

3. Selection and derivation of PQLs shall be as follows:

   i. PQLs shall be rounded to one significant figure using standard methods.

   ii. PQLs listed in Appendix Table 1 were, and additional PQLs shall be, derived or selected for each constituent using the most sensitive analytical method providing positive constituent identification from (c)3ii(1) and (2) below, in that order of preference:

      (1) PQLs derived from Method Detection Limit (MDL) data from the New Jersey Department of Health and Senior Services Laboratory (DHSS) multiplied by 5;

      (2) PQLs derived from laboratory performance data that has been evaluated by the Department using the method of Sanders, Lippincott and Eaton (See Sanders, P. et al., "Determining Quantitation Levels for Regulatory Purposes." J. Amer. Water Works Assoc., 1996, March pp. 104-114).

   iii. The Department may approve an alternative PQL. An alternative PQL shall be approved when the evidence (in the context of an applicable regulatory program) establishes that:

      (1) Based upon site-specific, ground water matrix considerations, a PQL listed in Appendix Table 1 for a constituent is not valid;

      (2) An alternative PQL is more appropriate for that constituent with regard to compliance with this chapter;

      (3) The alternative PQL has been determined through rigorous laboratory analysis using methods appropriate to the site-specific ground water matrix and constituent(s), including, without limitation, the derivation of an MDL using the methodology specified by Appendix B of 40 CFR Part 136; and

      (4) The alternative PQL does not result in nondetection of any target constituent due to masking effects of other target constituents, non-target constituents, or natural substances.

   iv. The approval of an alternative PQL shall be applicable to the regulation of ground water quality affected by the discharge for which it is derived, and its approval and

utilization shall be subject to the same procedural requirements as any other aspect of the regulatory decision.

4. Where ground water pollutants affect surface water quality within the meaning of N.J.A.C. 7:9C-1.7(g), more sensitive analytical techniques such as bioassays or bioaccumulation assays may be required by the Department.

7:9C-1.10 Procedures for reclassification of ground water

(a) Reclassification of ground water areas shall be accomplished through rulemaking in accordance with the Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq.

(b) Any interested person may seek to have any ground water area reclassified by filing a petition with the Department. For the purposes of this subsection, interested persons shall include, but not be limited to:

1. Any State, county or municipal governmental entity with jurisdiction over the area that is proposed for reclassification; and

2. Any person residing or discharging in the area that is proposed for reclassification.

(c) Petitions shall comply with and shall be reviewed in compliance with N.J.S.A. 52:14B-4 and N.J.A.C. 7:1D-1.1.

(d) For purposes of this subsection, ground water areas subject to petition for reclassification shall constitute at least a significant portion of one or more geologic units or formations. In no event shall a reclassification area consist only of an area underlying property owned by a single person (except in the case of reclassification to and from Class I-A), an area affected only by one discharge, or an area affected only by a set of discharges owned or controlled by a single person.

(e) In setting forth the reasons for its petition, the petitioner shall describe the proposed reclassification area (both lateral and vertical), and shall include appropriate ground water quality and hydrogeologic analyses, as well as statements regarding the environmental, economic and social impacts of the proposed reclassification.

(f) In order to grant a petition to propose a rule amendment to apply a more stringent classification to a ground water area, the Department must find that the petitioner has established that the subject area has the characteristics of the more stringent classification.

(g) In order to grant a petition to propose a rule amendment to apply a less stringent classification to a ground water area, the Department must find that the petitioner has established that:

1. The designated use cannot be maintained in the subject area;

2. Based upon an analysis of background water quality of constituent standards in downgradient areas and of ground water flow vectors and gradients, contaminant attenuation, flow barriers and potential for induced movement, the reclassification will not result in significant risk of the following:

   i. Impairment to existing uses of ground water or significant potential for pollutant migration to downgradient classification areas;

   ii. Degradation of downgradient surface water quality in violation of the surface water quality standards;

   iii. Degradation of the quality of source water for public water supply wells in violation of the provisions of N.J.A.C. 7:9C-1.7, 1.8 and 1.9; or

   iv. Significant threats to public health, safety and welfare; and

3. The subject area has the characteristics of the less stringent classification.

(h) The petitioner shall provide public notice of the petition by mailing a copy of a summary of the petition, including all subsequent amendments, to:

1. All owners of residences or facilities identified by local health officials or by the petitioner during the preparation of the petition as operators of wells in the subject area;

2. The mayor or governing body, and the planning board and environmental commission of all municipalities in which any part of the subject area is located;

3. All public water systems utilizing ground or surface water from the subject area;

4. All local or county health agencies with jurisdiction over any part of the subject area; and

5. Any other interested party who requests a copy of the petition summary in writing to either the Department or the petitioner.

(i) The petitioner shall cause public newspaper notice of the petition to be published, in two daily, and one weekly, newspapers (if available) that are distributed in the municipalities of the subject area, which notice shall include a brief summary of the petition.

7:9C-1.11 Severability

If any provision of this chapter or any application of any such provision is held to be invalid, such invalidity shall not affect any other provision or application, and to this end, the provisions of this chapter are declared to be severable.

Appendix Table 1 - Specific Ground Water Quality Criteria

Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels

Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion (µg/L)*
Acenaphthene	83-32-9	400	10	400
Acetone	67-64-1	6,000	10	6,000
Acetophenone	98-86-2	700	10	700
Acrolein	107-02-8	4	5	5
Acrylamide	79-06-1	0.008	0.2	0.2
Acrylonitrile	107-13-1	0.06	2	2
Adipates (Di(2-ethylhexyl)adipate) (DEHA)	103-23-1	30	3	30
Alachlor	15972-60-8	0.4	0.1	0.4
Aldicarb sulfone	1646-88-4	7	0.3	7
Aldrin	309-00-2	0.002	0.04	0.04
Aluminum	7429-90-5	200	30	200
Ammonia (Total)	7664-41-7	3,000	200	3,000
Aniline	62-53-3	6	2	6
Anthracene	120-12-7	2,000	10	2,000
Antimony (Total)	7440-36-0	6	3	6
Arsenic (Total)	7440-38-2	0.02	3	3
Asbestos	1332-21-4	$7X10^6$f/L>10um[a]	10^6f/L>10um[a]	$7X10^6$f/L>10um[a]
Atrazine	1912-24-9	3	0.1	3
Barium**	7440-39-3	6,000	200	6,000
Benz(a)anthracene	56-55-3	0.05	0.1	0.1
Benzene	71-43-2	0.2	1	1
Benzidine	92-87-5	0.0002	20	20
Benzo(a)pyrene (BaP)	50-32-8	0.005	0.1	0.1
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.05	0.2	0.2
Benzo(k)fluoranthene	207-08-9	0.5	0.3	0.5
Benzoic acid	65-85-0	30,000	50	30,000
Benzyl alcohol	100-51-6	2,000	20	2,000
Beryllium	7440-41-7	1	1	1
alpha-BHC- (alpha-HCH)	319-84-6	0.006	0.02	0.02
beta-BHC (beta-HCH)	319-85-7	0.02	0.04	0.04
gamma-BHC (gamma-HCH/Lindane)	58-89-9	0.03	0.02	0.03
1,1-Biphenyl	92-52-4	400	10	400
Bis(2-chloroethyl) ether	111-44-4	0.03	7	7
Bis(2-chloroisopropyl) ether	108-60-1	300	10	300
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	2	3	3
Bromodichloromethane (Dichlorobromomethane)	75-27-4	0.6	1	1
Bromoform	75-25-2	4	0.8	4
n-Butanol (n-Butyl alcohol)	71-36-3	700	20	700
tertiary-Butyl alcohol (TBA)	75-65-0	100	2	100
Butylbenzyl phthalate	85-68-7	100	1	100
Cadmium	7440-43-9	4	0.5	4
Camphor	76-22-2	1,000	0.5	1,000
Carbofuran	1563-66-2	40	0.5	40
Carbon disulfide	75-15-0	700	1	700
Carbon tetrachloride	56-23-5	0.4	1	1

THIS IS A COURTESY COPY OF THIS RULE. SHOULD THERE BE ANY DISCREPANCIES BETWEEN THIS TEXT AND THE OFFICIAL VERSION OF THE PROPOSAL, THE OFFICIAL VERSION WILL GOVERN.

Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion (µg/L)*
Chlordane	57-74-9	0.01	0.5	0.5
Chloride	16887-00-6	250,000	2,000	250,000
4-Chloroaniline (p-Chloroaniline)	106-47-8	30	10	30
Chlorobenzene (Monochlorobenzene)	108-90-7	50	1	50
Chloroform	67-66-3	70	1	70
2-Chloronaphthalene	91-58-7	600	10	600
2-Chlorophenol	95-57-8	40	20	40
Chlorpyrifos	2921-88-2	20	0.1	20
Chromium (Total)	7440-47-3	70	1	70
Chrysene	218-01-9	5	0.2	5
Color		10 CU	5 CU	10 CU
Copper	7440-50-8	1,300	4	1,300
Cumene (Isopropyl benzene)	98-82-8	700	1	700
Cyanide (free Cyanide)	57-12-5	100	6	100
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	70	2	70
Dalapon (2,2-Dichloropropionic acid)	75-99-0	200	0.1	200
4,4'-DDD (p,p'-TDE)	72-54-8	0.1	0.02	0.1
4,4'-DDE	72-55-9	0.1	0.01	0.1
4,4'-DDT	50-29-3	0.1	0.1	0.1
Demeton	8065-48-3	0.3	1	1
Dibenz(a,h)anthracene	53-70-3	0.005	0.3	0.3
Dibromochloromethane (Chlorodibromomethane)	124-48-1	0.4	1	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.02	0.02	0.02
Di-n-butyl phthalate	84-74-2	700	1	700
1,2-Dichlorobenzene (ortho)	95-50-1	600	5	600
1,3-Dichlorobenzene (meta)	541-73-1	600	5	600
1,4-Dichlorobenzene (para)	106-46-7	75	5	75
3,3-Dichlorobenzidine	91-94-1	0.08	30	30
Dichlorodifluoromethane (Freon 12)	75-71-8	1,000	2	1,000
1,1-Dichloroethane (1,1-DCA)	75-34-3	50	1	50
1,2-Dichloroethane	107-06-2	0.3	2	2
1,1-Dichloroethylene (1,1-DCE)	75-35-4	1	1	1
cis-1,2-Dichloroethylene	156-59-2	70	1	70
trans-1,2-Dichloroethylene	156-60-5	100	1	100
2,4-Dichlorophenol (DCP)	120-83-2	20	10	20
1,2-Dichloropropane	78-87-5	0.5	1	1
1,3-Dichloropropene (cis and trans)	542-75-6	0.4	1	1
Dieldrin	60-57-1	0.002	0.03	0.03
Diethyl phthalate	84-66-2	6,000	1	6,000
Diisodecyl phthalate (DIDP)	26761-40-0	100	3	100
Diisopropyl ether (DIPE)	108-20-3	20,000	5	20,000
2,4-Dimethyl phenol	105-67-9	100	20	100
2,4-Dinitrophenol	51-28-5	10	40	40
2,4-Dinitrotoluene/2,6-Dinitrotoluene Mix	25321-14-6	0.05	10	10
Di-n-octyl phthalate	117-84-0	100	10	100
Dinoseb	88-85-7	7	2	7
Diphenylamine	122-39-4	200	20	200
1,2-Diphenylhydrazine	122-66-7	0.04	20	20
Diquat	85-00-7	20	2	20
Endosulfan (alpha and beta)	115-29-7	40	0.1	40

THIS IS A COURTESY COPY OF THIS RULE. SHOULD THERE BE ANY DISCREPANCIES BETWEEN THIS TEXT AND THE OFFICIAL VERSION OF THE PROPOSAL, THE OFFICIAL VERSION WILL GOVERN.

Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion (µg/L)*
alpha-Endosulfan (Endosulfan I)	959-98-8	40	0.02	40
beta-Endosulfan (Endosulfan II)	33213-65-9	40	0.04	40
Endosulfan sulfate	1031-07-8	40	0.02	40
Endothall	145-73-3	100	60	100
Endrin	72-20-8	2	0.03	2
Epichlorohydrin	106-89-8	4	5	5
Ethion	563-12-2	4	0.5	4
Ethyl acetate	141-78-6	6,000	10	6,000
Ethylbenzene	100-41-4	700	2	700
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.0004	0.03	0.03
Ethylene glycol	107-21-1	300	200	300
Ethylene glycol monomethyl ether	109-86-4	7	20,000	20,000
Ethyl ether	60-29-7	1,000	50	1,000
Fluoranthene	206-44-0	300	10	300
Fluorene	86-73-7	300	1	300
Fluoride	7782-41-4	2,000	500	2,000
Foaming agents (ABS/LAS)		500	0.5	500
Formaldehyde	50-00-0	100	30	100
Glyphosate	1071-83-6	700	30	700
Hardness (as CaCO3)		250,000	10,000	250,000
Heptachlor	76-44-8	0.008	0.05	0.05
Heptachlor epoxide	1024-57-3	0.004	0.2	0.2
Hexachlorobenzene	118-74-1	0.02	0.02	0.02
Hexachlorobutadiene	87-68-3	0.4	1	1
Hexachlorocyclopentadiene	77-47-4	40	0.5	40
Hexachloroethane	67-72-1	2	7	7
Hexane (n-Hexane)	110-54-3	30	5	30
Indeno (1,2,3-cd)pyrene	193-39-5	0.05	0.2	0.2
Iron	7439-89-6	300	20	300
Isophorone	78-59-1	40	10	40
Lead (Total)	7439-92-1	5	5	5
Malathion	121-75-5	100	0.6	100
Manganese	7439-96-5	50	0.4	50
Mercury (Total)	7439-97-6	2	0.05	2
Methanol	67-56-1	4,000	70	4,000
Methoxychlor	72-43-5	40	0.1	40
Methyl acetate	79-20-9	7,000	0.5	7,000
Methyl bromide (Bromomethane)	74-83-9	10	1	10
Methylene chloride	75-09-2	3	1	3
Methyl ethyl ketone (2-Butanone) (MEK)	78-93-3	300	2	300
Methyl Salicylate	119-36-8	4,000	50	4,000
Methyl tertiary butyl ether (MTBE)	1634-04-4	70	1	70
Mirex	2385-85-5	0.1	0.08	0.1
Molybdenum	7439-98-7	40	2	40
Naphthalene	91-20-3	300	2	300
Nickel (Soluble salts)	7440-02-0	100	4	100
Nitrate	14797-55-8	10,000	100	10,000
Nitrite	14797-65-0	1,000	10	1,000
Nitrate and Nitrite		10,000	10	10,000
Nitrobenzene	98-95-3	4	6	6

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Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion (µg/L)*
N-Nitrosodimethylamine	62-75-9	0.0007	0.8	0.8
N-Nitrosodiphenylamine	86-30-6	7	10	10
N-Nitrosodi-n-propylamine (Di-n-propylnitrosamine)	621-64-7	0.005	10	10
Odor		3[b]	NA	3[b]
Oil & Grease & Petroleum Hydrocarbons		None Noticeable	NA	None Noticeable
Oxamyl	23135-22-0	200	1	200
Parathion	56-38-2	4	0.08	4
PBBs (Polybrominated biphenyls)	67774-32-7	0.004	0.001	0.004
PCBs (Polychlorinated biphenyls)	1336-36-3	0.02	0.5	0.5
Pentachlorophenol	87-86-5	0.3	0.1	0.3
pH		6.5-8.5	NA	6.5-8.5
Phenol	108-95-2	2,000	10	2,000
Picloram	1918-02-1	500	1	500
Pyrene	129-00-0	200	0.1	200
Salicylic acid	69-72-7	80	30	80
Selenium (Total)	7782-49-2	40	4	40
Silver	7440-22-4	40	1	40
Simazine	122-34-9	0.3	0.8	0.8
Sodium	7440-23-5	50,000	400	50,000
Styrene	100-42-5	100	2	100
Sulfate	14808-79-8	250,000	5,000	250,000
Taste		None Objectionable	NA	None Objectionable
TDS (Total dissolved solids)		500,000	10,000	500,000
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6	0.0000002	0.00001	0.00001
1,1,1,2-Tetrachloroethane	630-20-6	1	1	1
1,1,2,2-Tetrachloroethane	79-34-5	1	1	1
Tetrachloroethylene (PCE)	127-18-4	0.4	1	1
2,3,4,6-Tetrachlorophenol	58-90-2	200	3	200
Tetrahydrofuran	109-99-9	10	10	10
Thallium	7440-28-0	0.5	2	2
Toluene**	108-88-3	600	1	600
Toxaphene	8001-35-2	0.03	2	2
2,4,5-TP (2-(2,4,5-Trichlorophenoxy)propionic acid)	93-72-1	60	0.6	60
1,2,4-Trichlorobenzene	120-82-1	9	1	9
1,1,1-Trichloroethane (TCA)	71-55-6	30	1	30
1,1,2-Trichloroethane	79-00-5	3	2	3
Trichloroethene (TCE)	79-01-6	1	1	1
Trichlorofluoromethane (Freon 11)	75-69-4	2,000	1	2,000
2,4,5-Trichlorophenol	95-95-4	700	10	700
2,4,6-Trichlorophenol	88-06-2	1	20	20
1,2,3-Trichloropropane	96-18-4	0.005	0.03	0.03
Vanadium pentoxide	1314-62-1	60	1	60
Vinyl acetate	108-05-4	7,000	5	7,000
Vinyl chloride	75-01-4	0.08	1	1
Xylenes (Total)	1330-20-7	1,000	2	1,000
Zinc	7440-66-6	2,000	10	2,000
Microbiological criteria[m], Radionuclides & Turbidity	Standards promulgated in the Safe Drinking Water Act Regulations (N.J.A.C. 7:10-1 et seq.)			

Explanation of Terms:

*	= Ground water quality criteria and PQLs are expressed as micrograms per liter (*u*g/L) unless otherwise noted. Table 1 criteria are all maximum values unless clearly indicated as a range for which the minimum value is to the left and the maximum value is to the right.
**	= revised via administrative change (see 39 N.J.R. 3538(a)).
PQL	= Practical quantitation level as defined in N.J.A.C. 7:9C-1.4
CASRN	= Chemical Abstracts System Registration Number
NA	= not available for this constituent.
a	= Asbestos criterion is measured in terms of fibers/L longer than 10 micrometers (f/L > 10 um)
*u*g	= micrograms, L = liter, f = fibers, CU= Standard Cobalt Units
b	= Odor Threshold Number, mg = milligrams, H = Hardness
(Total)	means the concentration of metal in an unfiltered sample following treatment with hot dilute mineral acid (as defined in "Methods for Chemical Analysis of Water & Wastes", USEPA-600/4-79-020, March 1979) or other digestion defined by the analytical method. However samples that contain less than 1 nephelometric turbidity unit (NTU) and are properly preserved, may be directly analyzed without digestion.
m	= Pursuant to prevailing Safe Drinking Water Act Regulations any positive result for fecal coliform is in violation of the MCL and is therefore an exceedance of the ground water quality criteria.

Appendix Table 2 - Interim Generic Ground Water Quality Criteria

Interim Generic Criteria--Synthetic Organic Chemicals (SOC)

Constituent	Criteria
SOCs defined as carcinogens in N.J.A.C. 7:9C-1.4 lacking specific or interim specific criteria	5 ug/l each 25 ug/l total
SOCs defined as non-carcinogens in N.J.A.C. 7:9C-1.4 lacking specific or interim specific criteria	100 ug/l each 500 ug/ l total

Figures 1 through 5 - Classification System Maps

NJDEP
APPLICABLE REMEDIATION STANDARDS

Contaminant	CAS Number	NJ Soil Remediation Standards		NJ Default Impact to Groundwater Soil Screening Level mg/kg
		Residential Direct Contact mg/kg	Non-Residential Direct Contact mg/kg	
Acenaphthene	83-32-9	3,400	37,000	110
Acenaphthylene	208-96-8	---	300,000	---
Acetone (2-Propanone)	67-64-1	70,000	---	19
Acetophenone	98-86-2	2	5	3
Acrolein	107-02-8	0.5	1	0.5
Acrylonitrile	107-13-1	0.9	3	0.5
Aldrin	309-00-2	0.04	0.2	0.2
Aluminum	7429-90-5	78,000	---	6000
Anthracene	120-12-7	17,000	30,000	2400
Antimony	7440-36-0	31	450	6
Arsenic	7440-38-2	19	19	19
Atrazine	1912-24-9	210	2,400	0.2
Barium	7440-39-3	16,000	59,000	2100
Benzaldehyde	100-52-7	6100	68,000	---
Benzene	71-43-2	2	5	0.005
Benzidine	92-87-5	0.7	0.7	0.7
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	0.6	2	0.8
Benzo(a)pyrene	50-32-8	0.2	0.2	0.2
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.6	2	2
Benzo(ghi)perylene	191-24-2	380,000	30,000	---
Benzo(k)fluoranthene	207-08-9	6	23	25
Beryllium	7440-41-7	16	140	0.7
1,1'-Biphenyl	92-52-4	3,100	34,000	140
Bis(2-chloroethyl)ether	111-44-4	0.4	2	0.2
Bis(2-chloroisopropyl)ether	108-60-1	23	67	5
Bis(2-ethylhexyl) phthalate	117-81-7	35	140	1200
Bromodichloromethane (Dichlorobromomethane)	75-27-4	1	3	0.005
Bromoform	75-25-2	81	280	0.03
Bromomethane (Methyl bromide)	74-83-9	25	59	0.04
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	3,100	44,000	0.9
Butyl benzyl phthalate	85-68-7	1,200	14,000	230
Cadmium	7440-43-9	78	78	2
Caprolactam	105-60-2	31,000	340,000	12
Carbazole	86-74-8	24	96	---
Carbon disulfide	75-15-0	7,800	110,000	6
Carbon tetrachloride	56-23-5	0.6	2	0.005
Chlordane (alpha and gamma)	57-74-9	0.2	1	0.05
Chlorobenzene	108-90-7	510	7,400	0.6
Chloroethane (Ethyl chloride)	75-00-3	220	1,100	---
Chloroform	67-66-3	0.6	2	0.4
Chloromethane (Methyl chloride)	74-87-3	4	12	---
2-Chlorophenol (o-Chlorophenol)	95-57-8	310	2,200	0.8
Chrysene	218-01-9	62	230	80
Cobalt	7440-48-4	1,600	590	90
Copper	7440-50-8	3,100	45,000	11000
Cyanide	57-12-5	1,600	23,000	20
4,4'-DDD	72-54-8	3	13	4
4,4'-DDE	72-55-9	2	9	18
4,4'-DDT	50-29-3	2	8	11
Dibenz(a,h)anthracene	53-70-3	0.2	0.2	0.8

NJDEP
APPLICABLE REMEDIATION STANDARDS

Contaminant	CAS Number	NJ Soil Remediation Standards		NJ Default Impact to Groundwater Soil Screening Level mg/kg
		Residential Direct Contact mg/kg	Non-Residential Direct Contact mg/kg	
Dibromochloromethane (Chlorodibromomethane)	124-48-1	3	8	0.005
1,2-Dibromo-3-chloropropane	96-12-8	0.08	0.2	0.005
1,2-Dibromoethane	106-93-4	0.008	0.04	0.005
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	5,300	59,000	17
1,3-Dichlorobenzene (m-Dichlorobenzene)	541-73-1	5,300	59,000	19
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	5	13	2
3,3'-Dichlorobenzidine	91-94-1	1	4	0.2
Dichlorodifluoromethane	75-71-8	490	230,000	39
1,1-Dichloroethane	75-34-3	8	24	0.2
1,2-Dichloroethane	107-06-2	0.9	3	0.005
1,1-Dichloroethene	75-35-4	11	150	0.008
1,2-Dichloroethene (cis) (c-1,2-Dichloroethylene)	156-59-2	230	560	0.3
1,2-Dichloroethene (trans) (t-1,2-Dichloroethylene)	156-60-5	300	720	0.6
2,4-Dichlorophenol	120-83-2	180	2,100	0.2
1,2-Dichloropropane	78-87-5	2	5	0.005
1,3-Dichloropropene (cis and trans)	542-75-6	2	7	0.005
Dieldrin	60-57-1	0.04	0.2	0.003
Diethyl phthalate	84-66-2	49,000	550,000	88
2,4-Dimethyl phenol	105-67-9	1,200	14,000	1
Di-n-butyl phthalate	84-74-2	6,100	68,000	760
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	534-52-1	6	68	0.3
2,4-Dinitrophenol	51-28-5	120	1,400	0.3
2,4-Dinitrotoluene	121-14-2	0.7	3	---
2,6-Dinitrotoluene	606-20-2	0.7	3	---
2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	25321-14-6	0.7	3	0.2
Di-n-octyl phthalate	117-84-0	2,400	27,000	3300
1,2-Diphenylhydrazine	122-66-7	0.7	2	0.7
Endosulfan I and Endosulfan II (alpha and beta)	115-29-7	470	6,800	4
Endosulfan sulfate	1031-07-8	470	6,800	2
Endrin	72-20-8	23	340	1
Ethyl benzene	100-41-4	7,800	110,000	13
Fluoranthene	206-44-0	2,300	24,000	1300
Fluorene	86-73-7	2,300	24,000	170
alpha-HCH (alpha-BHC)	319-84-6	0.1	0.5	0.002
beta-HCH (beta-BHC)	319-85-7	0.4	2	0.002
Heptachlor	76-44-8	0.1	0.7	0.5
Heptachlor epoxide	1024-57-3	0.07	0.3	0.01
Hexachlorobenzene	118-74-1	0.3	1	0.2
Hexachloro-1,3-butadiene	87-68-3	6	25	0.9
Hexachlorocyclopentadiene	77-47-4	45	110	320
Hexachloroethane	67-72-1	35	140	0.2
Indeno(1,2,3-cd)pyrene	193-39-5	0.6	2	7
Isophorone	78-59-1	510	2,000	0.2
Lead	7439-92-1	400	800	90
Lindane (gamma-HCH) (gamma-BHC)	58-89-9	0.4	2	0.002
Manganese	7439-96-5	11,000	5,900	65
Mercury	7439-97-6	23	65	0.1
Methoxychlor	72-43-5	390	5,700	160
Methyl acetate	79-20-9	78,000	---	22
Methylene chloride (Dichloromethane)	75-09-2	34	97	0.01

NJDEP
APPLICABLE REMEDIATION STANDARDS

Contaminant	CAS Number	NJ Soil Remediation Standards		NJ Default Impact to Groundwater Soil Screening Level mg/kg
		Residential Direct Contact mg/kg	Non-Residential Direct Contact mg/kg	
2-Methylnaphthalene	91-57-6	230	2,400	8
2-Methylphenol (o-Creosol)	95-48-7	310	3,400	---
4-Methylphenol (p-Creosol)	106-44-5	31	340	---
Methyl tert-butyl ether (MTBE)	1634-04-4	110	320	0.2
Naphthalene	91-20-3	6	17	25
Nickel (Soluble salts)	7440-02-0	1,600	23,000	48
2-Nitroaniline	88-74-4	39	23,000	---
Nitrobenzene	98-95-3	31	340	0.2
N-Nitrosodimethylamine	62-75-9	0.7	0.7	0.7
N-Nitrosodi-n-propylamine	621-64-7	0.2	0.3	0.2
N-Nitrosodiphenylamine	86-30-6	99	390	0.4
Pentachlorophenol	87-86-5	3	10	0.3
Phenanthrene	85-01-8	---	300,000	---
Phenol	108-95-2	18,000	210,000	8
Polychlorinated biphenyls (PCBs)	1336-36-3	0.2	1	0.2
Pyrene	129-00-0	1,700	18,000	840
Selenium	7782-49-2	390	5,700	11
Silver	7440-22-4	390	5,700	1
Styrene	100-42-5	90	260	3
Tertiary butyl alcohol (TBA)	75-65-0	1,400	11,000	0.3
1,1,2,2-Tetrachloroethane	79-34-5	1	3	0.007
Tetrachloroethene	127-18-4	2	5	0.005
Thallium	7440-28-0	5	79	3
Toluene	108-88-3	6,300	91,000	7
Toxaphene	8001-35-2	0.6	3	0.3
1,2,4-Trichlorobenzene	120-82-1	73	820	0.7
1,1,1-Trichloroethane	71-55-6	290	4,200	0.3
1,1,2-Trichloroethane	79-00-5	2	6	0.02
Trichloroethene	79-01-6	7	20	0.01
Trichlorofluoromethane	75-69-4	23,000	340,000	34
2,4,5-Trichlorophenol	95-95-4	6,100	68,000	68
2,4,6-Trichlorophenol	88-06-2	19	74	0.2
Vanadium	7440-62-2	78	1,100	---
Vinyl chloride	75-01-4	0.7	2	0.005
Xylenes	1330-20-7	12,000	170,000	19
Zinc	7440-66-6	23,000	110,000	930
Extractable Petroleum hydrocarbons (EPH)	---	1,700	1,700	1,700

--- = Contaminant has no standard

Notes:

1. Residential and Non-Residential Soil Remediation Standards from NJAC 7:26D - *Remediation Standards* , last amended 7 May 2012.
2. Default Impact to Groundwater Soil Screening Levels from NJDEP guidance document titled "*Development of Impact to Groundwater Soil Remediation Standards Using the Soil-Water Partition Equation* ", Version 2.0, November 2013.
3. EPH criteria shown are based on the Ecological Screening Criterion indicated in the NJDEP "*Protocol for Addressing EPH* ", Version 5.0, August 2010.

APPENDIX K

Proposed Construction Figure – Deed Notice Elements

APPENDIX L

Draft Deed Notice

APPENDIX B - MODEL DEED NOTICE

DEED NOTICE

IN ACCORDANCE WITH N.J.S.A. 58:10B-13, THIS DOCUMENT IS TO BE RECORDED IN THE SAME MANNER AS ARE DEEDS AND OTHER INTERESTS IN REAL PROPERTY.

Prepared by: _____
[Signature]

Eric Meyer, LSRP 574059_____
[Print name below signature]

Recorded by: _____
[Signature, Officer of County Recording Office]

_____
[Print name below signature]

DEED NOTICE

This Deed Notice is made as of the ***XXX day of XXX, XXX***, by ***The City of Hoboken, 94 Washington Street, Hoboken, New Jersey 07030***. (together with his/her/its/their successors and assigns, collectively "Owner").

1. THE PROPERTY. ***The City of Hoboken, 94 Washington Street, Hoboken, New Jersey 07030*** is the owner in fee simple of certain real property designated as ***57 Harrison Street; Block(s) 12; Lot(s) 1-7, 9, 12-18***, on the tax map of the ***City of Hoboken***, ***Hudson County***; the New Jersey Department of Environmental Protection Program Interest Number (***Preferred ID 585028***) for the contaminated site which includes this property is ***Preferred ID 585028***; and the property is more particularly described in **Exhibit A**, which is attached hereto and made a part hereof (the "Property").

2. REMEDIATION.

i. ***Eric Meyer, CHMM, LSRP (LSRP#574059)*** has approved this Deed Notice as an institutional control for the Property, which is part of the remediation of the Property.

ii. N.J.A.C. 7:26C-7 requires the Owner, among other persons, to obtain a soil remedial action permit for the soil remedial action at the Property. That permit will contain the monitoring, maintenance and biennial certification requirements that apply to the Property.

3. SOIL CONTAMINATION. ***The City of Hoboken*** has remediated contaminated soil at the Property, such that soil contamination remains in certain areas of the Property that contains contaminants in concentrations that do not allow for the unrestricted use of the Property; this soil contamination is described, including the type, concentration and specific location of such contaminants, in **Exhibit B**, which is attached hereto and made a part hereof. As a result, there is a statutory requirement for this Deed Notice and engineering controls in accordance with N.J.S.A. 58:10B-13.

4. CONSIDERATION. In accordance with the remedial action for the site which included the Property, and in consideration of the terms and conditions of that remedial action, and other good and valuable consideration, Owner has agreed to subject the Property to certain statutory and regulatory requirements that impose restrictions upon the use of the Property, to restrict certain uses of the Property, and to provide notice to subsequent owners, lessees and operators of the restrictions and the monitoring, maintenance, and biennial certification requirements outlined in this Deed Notice and required by law, as set forth herein.

5A. RESTRICTED AREAS. Due to the presence of contamination remaining at concentrations that do not allow for unrestricted use, the Owner has agreed, as part of the remedial action for the Property, to restrict the use of certain parts of the Property (the "Restricted Areas"); a narrative description of these restrictions is provided in **Exhibit C**, which is attached hereto and made a part hereof. The Owner has also agreed to maintain a list of these restrictions on site for inspection by governmental officials.

5B. RESTRICTED LAND USES. The following statutory land use restrictions apply to the Restricted Areas:

i. The Brownfield and Contaminated Site Remediation Act, N.J.S.A. 58:10B-12.g(10), prohibits the conversion of a contaminated site, remediated to non-residential soil remediation standards that require the maintenance of engineering or institutional controls, to a child care facility, or public, private, or charter school without the Department's prior written approval, unless a presumptive remedy is implemented; and

ii. The Brownfield and Contaminated Site Remediation Act, N.J.S.A. 58:10B-12.g(12), prohibits the conversion of a landfill, with gas venting systems and or leachate collection systems, to a single family residence or a child care facility without the Department's prior written approval.

5C. ENGINEERING CONTROLS. Due to the presence and concentration of these contaminants, the Owner has also agreed, as part of the remedial action for the Property, to the placement of certain engineering controls on the Property; a narrative description of these engineering controls is provided in **Exhibit C**.

6A. CHANGE IN OWNERSHIP AND REZONING.

i. The Owner and the subsequent owners and lessees, shall cause all leases, grants, and other written transfers of an interest in the Restricted Areas to contain a provision expressly requiring all holders thereof to take the Property subject to the restrictions contained herein and to comply with all, and not to violate any of the conditions of this Deed Notice. Nothing contained in this Paragraph shall be construed as limiting any obligation of any person to provide any notice required by any law, regulation, or order of any governmental authority.

ii. The Owner and the subsequent owners shall provide written notice to the Department of Environmental Protection on a form provided by the Department and available at www.nj.gov/srp/forms within thirty (30) calendar days after the effective date of any conveyance, grant, gift, or other transfer, in whole or in part, of the owner's interest in the Restricted Area.

iii. The Owner and the subsequent owners shall provide written notice to the Department, on a form available from the Department at www.nj.gov/srp/forms, within thirty (30) calendar days after the owner's petition for or filing of any document initiating a rezoning of the Property to residential.

6B. SUCCESSORS AND ASSIGNS. This Deed Notice shall be binding upon Owner and upon Owner's successors and assigns, and subsequent owners, lessees and operators while each is an owner, lessee, or operator of the Property.

7A. ALTERATIONS, IMPROVEMENTS, AND DISTURBANCES.

i. The Owner and all subsequent owners and lessees shall notify any person, including, without limitation, tenants, employees of tenants, and contractors, intending to conduct invasive work or excavate within the Restricted Areas, of the nature and location of contamination in the Restricted Areas, and, of the precautions necessary to minimize potential human exposure to contaminants.

ii. Except as provided in Paragraph 7B, below, no person shall make, or allow to be made, any alteration, improvement, or disturbance in, to, or about the Property which disturbs any engineering control at the Property without first obtaining a soil remedial action permit modification pursuant to N.J.A.C. 7:26C-7. Nothing herein shall constitute a waiver of the obligation of any person to comply with all applicable laws and regulations including, without limitation, the applicable rules of the Occupational Safety and Health Administration.

iii. Notwithstanding subparagraph 7Aii., above, a soil remedial action permit modification is not required for any alteration, improvement, or disturbance provided that the owner, lessee or operator:

(A) Notifies the Department of Environmental Protection of the activity by calling the DEP Hotline, at 1-877-WARN-DEP or 1-877-927-6337, within twenty-four (24) hours after the beginning of each alteration, improvement, or disturbance;

(B) Restores any disturbance of an engineering control to pre-disturbance conditions within sixty (60) calendar days after the initiation of the alteration, improvement or disturbance;

(C) Ensures that all applicable worker health and safety laws and regulations are followed during the alteration, improvement, or disturbance, and during the restoration;

(D) Ensures that human exposure to contamination in excess of the remediation standards does not occur; and

(E) Describes, in the next biennial certification the nature of the alteration, improvement, or disturbance, the dates and duration of the alteration, improvement, or disturbance, the name of key individuals and their affiliations conducting the alteration, improvement, or disturbance, a description of the notice the Owner gave to those persons prior to the disturbance.

7B. EMERGENCIES. In the event of an emergency which presents, or may present, an unacceptable risk to the public health and safety, or to the environment, or immediate environmental concern, see N.J.S.A. 58:10C-2, any person may temporarily breach an engineering control provided that that person complies with each of the following:

i. Immediately notifies the Department of Environmental Protection of the emergency, by calling the DEP Hotline at 1-877-WARNDEP or 1-877-927-6337;

ii. Hires a Licensed Site Remediation Professional (unless the Restricted Areas includes an unregulated heating oil tank) to respond to the emergency;

iii. Limits both the actual disturbance and the time needed for the disturbance to the minimum reasonably necessary to adequately respond to the emergency;

iv. Implements all measures necessary to limit actual or potential, present or future risk of exposure to humans or the environment to the contamination;

v. Notifies the Department of Environmental Protection when the emergency or immediate environmental concern has ended by calling the DEP Hotline at 1-877-WARNDEP or 1-877-927-6337; and

vi. Restores the engineering control to the pre-emergency conditions as soon as possible, and provides notification to the Department of Environmental Protection within sixty (60) calendar days after completion of the restoration of the engineering control, including: (a) the nature and likely cause of the emergency; (b) the potential discharges of or exposures to contaminants, if any, that may have occurred; (c) the measures that have been taken to

mitigate the effects of the emergency on human health and the environment; (d) the measures completed or implemented to restore the engineering control; and (e) the changes to the engineering control or site operation and maintenance plan to prevent reoccurrence of such conditions in the future.

8. TERMINATION OF DEED NOTICE.

i. This Deed Notice may be terminated only upon filing of a Termination of Deed Notice, available at N.J.A.C. 7:26C Appendix C, with the ***Office of the Hudson County Registrar*** of ***Hudson County***, New Jersey, expressly terminating this Deed Notice.

ii. Within thirty (30) calendar days after the filing of a Termination of Deed Notice, the owner of the property shall apply to the Department for termination of the soil remedial action permit pursuant to N.J.A.C. 7:26C-7.

9. ACCESS. The Owner, and the subsequent owners, lessees and operators agree to allow the Department, its agents and representatives access to the Property to inspect and evaluate the continued protectiveness of the remedial action that includes this Deed Notice and to conduct additional remediation to ensure the protection of the public health and safety and of the environment if the subsequent owners, lessees and operators, during their ownership, tenancy, or operation, and the Owner fail to conduct such remediation pursuant to this Deed Notice as required by law. The Owner, and the subsequent owners and lessees, shall also cause all leases, subleases, grants, and other written transfers of an interest in the Restricted Areas to contain a provision expressly requiring that all holders thereof provide such access to the Department.

10. ENFORCEMENT OF VIOLATIONS.

i. This Deed Notice itself is not intended to create any interest in real estate in favor of the Department of Environmental Protection, nor to create a lien against the Property, but merely is intended to provide notice of certain conditions and restrictions on the Property and to reflect the regulatory and statutory obligations imposed as a conditional remedial action for this site.

ii. The restrictions provided herein may be enforceable solely by the Department against any person who violates this Deed Notice. To enforce violations of this Deed Notice, the Department may initiate one or more enforcement actions pursuant to N.J.S.A. 58:10-23.11, and N.J.S.A. 58:10C, and require additional remediation and assess damages pursuant to N.J.S.A. 58:10-23.11, and N.J.S.A. 58:10C.

11. SEVERABILITY. If any court of competent jurisdiction determines that any provision of this Deed Notice requires modification, such provision shall be deemed to have been modified automatically to conform to such requirements. If a court of competent jurisdiction determines that any provision of this Deed Notice is invalid or unenforceable and the provision is of such a nature that it cannot be modified, the provision shall be deemed deleted from this instrument as though the provision had never been included herein. In either case, the remaining provisions of this Deed Notice shall remain in full force and effect.

12A. EXHIBIT A. **Exhibit A** includes the following maps of the Property and the vicinity:

i. Exhibit A-1: Vicinity Map - A map that identifies by name the roads, and other important geographical features in the vicinity of the Property (for example, USGS Quad map, Hagstrom County Maps);

ii. Exhibit A-2: Metes and Bounds Description - A tax map of lots and blocks as wells as metes and bounds description of the Property, including reference to tax lot and block numbers for the Property;

iii. Exhibit A-3: Property Map - A scaled map of the Property, scaled at one inch to 200 feet or less, and if more than one map is submitted, the maps shall be presented as overlays, keyed to a base map; and the Property Map shall include diagrams of major surface topographical features such as buildings, roads, and parking lots.

12B. EXHIBIT B. **Exhibit B** includes the following descriptions of the Restricted Areas:

i. Exhibit B-1: Restricted Area Map - A separate map for each restricted area that includes:

(A) As-built diagrams of each engineering control, including caps, fences, slurry walls, (and, if any) ground water monitoring wells, extent of the ground water classification exception area, pumping and treatment systems that may be required as part of a ground water engineering control in addition to the deed notice

(B) As-built diagrams of any buildings, roads, parking lots and other structures that function as engineering controls; and

(C) Designation of all soil and sediment sample locations within the restricted areas that exceed any soil or sediment standard that are keyed into one of the tables described in the following paragraph.

ii. Exhibit B-2: Restricted Area Data Table - A separate table for each restricted area that includes either (A) or (B) through (F):

(A) Only for historic fill extending over the entire site or a portion of the site and for which analytical data are limited or do not exist, a narrative that states that historic fill is present at the site, a description of the fill material (e.g., ash, cinders, brick, dredge material), and a statement that such material may include, but is not limited to, contaminants such as PAHs and metals;

(B) Sample location designation from Restricted Area map (Exhibit B-1);

(C) Sample elevation based upon mean sea level;

(D) Name and chemical abstract service registry number of each contaminant with a concentration that exceeds the unrestricted use standard;

(E) The restricted and unrestricted use standards for each contaminant in the table; and

(F) The remaining concentration of each contaminant at each sample location at each elevation.

12C. **EXHIBIT C**. Exhibit C includes narrative descriptions of the institutional controls [*Insert as appropriate: and engineering controls*] as follows:

i. Exhibit C-1: Deed Notice as Institutional Control: Exhibit C-1 includes a narrative description of the restriction and obligations of this Deed Notice that are in addition to those described above, as follows:

(A) Description and estimated size of the Restricted Areas as described above;

(B) Description of the restrictions on the Property by operation of this Deed Notice; and

(C) The objective of the restrictions.

ii. Exhibit C-2: Engineered Cap: Exhibit C-2 includes a narrative description of the Engineered Cap as follows:

(A) Description of the engineering control;

(B) The objective of the engineering control; and

(C) How the engineering control is intended to function.

13. SIGNATURES. IN WITNESS WHEREOF, Owner has executed this Deed Notice as of the date first written above.

[If Owner is an individual]

WITNESS: _____
[Signature]

_____
[Print name below signature]

STATE OF [State where document is executed] SS.:
COUNTY OF [County where document is executed]

I certify that on _____, 20__, [Name of Owner] personally came before me, and this person acknowledged under oath, to my satisfaction, that this person [or if more than one person, each person]

(a) is named in and personally signed this document; and

(b) signed, sealed and delivered this document as his or her act and deed.

_____

_____, Notary Public
[Print Name and Title]

14. SIGNATURES. IN WITNESS WHEREOF, Owner has executed this Deed Notice as of the date first written above.

[If Owner is a corporation]

ATTEST: [Name of corporation]

_____ By_____

_____ _____
[Print name and title] [Signature]

STATE OF [State where document is executed] SS.:
COUNTY OF [County where document is executed]

I certify that on _____, 20__, [Name of person executing document on behalf of Owner] personally came before me, and this person acknowledged under oath, to my satisfaction, that:

(a) this person is the [secretary/assistant secretary] of [Owner], the corporation named in this document;

(b) this person is the attesting witness to the signing of this document by the proper corporate officer who is the [president/vice president] of the corporation;

(c) this document was signed and delivered by the corporation as its voluntary act and was duly authorized;

(d) this person knows the proper seal of the corporation which was affixed to this document; and

(e) this person signed this proof to attest to the truth of these facts.

_____
[Signature]

_____
[Print name and title of attesting witness]

Signed and sworn before me on _____, 20__

_____, Notary Public

_____
[Print name and title]

EXHIBIT A

EXHIBIT A-1

VICINITY MAP

EXHIBIT A-2

METES AND BOUNDS DESCRIPTION

EXHIBIT A-3

PROPERTY MAP

EXHIBIT B

EXHIBIT B-1

RESTRICTED AREA MAP

EXHIBIT B-2

RESTRICTED AREA TABLE

EXHIBIT C

EXHIBIT C-1

INSTITUTIONAL CONTROL

EXHIBIT C-2

ENGINEERING CONTROLS

APPENDIX M

Draft CEA Application

APPENDIX N

Draft Remedial Action Permit – Soil

APPENDIX O

QAPP

QUALITY ASSURANCE QUALITY CONTROL PLAN

For

HOBOKEN SW BLOCK 12 PARK
Block 12; Lots 1-7, 9, 12-18
57-59 Harrison Street
Hoboken, New Jersey
NJDEP PI #585028

Prepared For:

The City of Hoboken
94 Washington Street
Hoboken, New Jersey 07030

Prepared By:

Langan Engineering and Environmental Services, Inc.
River Drive Center 1, 619 River Drive
Elmwood Park, New Jersey 07407
NJ Certificate of Authorization No: 24GA27996400

15 December 2014
100497601

LANGAN

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Appendix C **Quality Assurance Project Plan Technical Guidance (QAPP) (April 2014)**
Appendix D **Example Data Quality Assessment / Data Usability Evaluation Worksheets**

LIST OF ACRONYMS

AOC -- Areas of Concern
COC – Contaminant of Concern
DKQP -- Data of Known Quality Protocol
DQA -- Data Quality Assessment
DQO -- Data Quality Objectives
DUE -- Data Usability Evaluation
EDD – Electronic Data Deliverable
EDSA -- Electronic Data Submittal Application
ELCP -- Environmental Laboratory Certification Program
EPA -- Environmental Protection Agency
EPH – Extractable Petroleum Hydrocarbon
ERM -- Environmental Resources Management
FSPM – Field Sampling Procedures Manual
GPR -- Ground Penetrating Radar
HASP – Health and Safety Plan
HAZWOPER –Hazardous Waste Operations and Emergency Response
HSO – Health and Safety Officer
IGWSSL – Impact to Groundwater Soil Screening Levels
ISRA – Industrial Site Recovery Act
LCS – Laboratory Control Sample
LCSD – Laboratory Control Sample Duplicate
LIMS – Laboratory Information Management System
LSRP -- Licensed Site Remediation Professional
MS – Matrix Spike
MSD – Matrix Spike Duplicate
NELAP -- National Environmental Laboratory Accreditation Program
NJSDA -- New Jersey Schools Development Authority
OSHA -- Occupational Safety and Health Administration
NJAC -- New Jersey Administrative Code
NJDEP – New Jersey Department of Environmental Protection
NRDC – Non-Residential Direct Contact
PCB – Polychlorinated Biphenyl
PID – Photoionization Detector

LIST OF ACRONYMS
(Continued)

PM – Project Manager
PPE – Personal Protective Equipment
PSME – Preliminary Soil Management Evaluation
QAC – Quality Assurance Coordinator
QAM – Quality Assurance Manual
QAPP – Quality Assurance Project Plan
QA/QC – Quality Assurance/Quality Control
QAQCP – Quality Assurance/ Quality Control Plan
RA – Remedial Action
RAO – Response Action Outcome
RAP – Remedial Action Plan
RAWP – Remedial Action Workplan
RDCSRS – Residential Direct Contact Soil Remediation Standards
RI – Remedial Investigation
RIR – Remedial Investigation Report
RL – Reporting Limit
RPD – Relative Percent Difference
SI – Site Investigation
SOP – Standard Operating Procedure
SOW – Scope of Work
SRRA – Site Remediation Reform Act
SRS – Soil Remediation Standard
TIC – Tentatively Identified Compounds
TCL – Target Compound List
TRSR – Technical Requirements for Site Remediation

1.0 PROJECT BACKGROUND

1.1 Project Definition

Langan Engineering & Environmental Services (Langan) has prepared this Quality Assurance and Quality Control Plan (QAQCP) on behalf of the responsible party, The City of Hoboken (Hoboken), to support remedial action activities associated with the property identified as Hoboken SW Block 12 Park (Hoboken SW Park), Block 12; Lots 1-7, 9, 12-18, 57-59 Harrison Street, City of Hoboken, Hudson County, New Jersey (hereafter identified as the Site). This QAQCP has been completed to meet the requirements of New Jersey Administrative Code (N.J.A.C.) 7:26E-2.2, and is applicable specifically for the duration of the aforementioned project, including the property/site identified as follows:

- Block 12, Lots 1-6, 57-67 Harrison Street;
- Block 12, Lot 7, 69 Harrison Street;
- Block 12, Lot 9, 67-69 Paterson Avenue
- Block 12, Lot 12, 57 Paterson Avenue;
- Block 12, Lot 13, 55 Paterson Avenue;
- Block 12, Lot 14, 51-53 Paterson Avenue;
- Block 12, Lot 15, 64 Jackson Street; and,
- Block 12, lots 16-18, Jackson Street.

Figure 1 provides a Site Location Map; Figure 2 provides a municipal tax map.

Several areas of concern (AOCs) were previously identified and investigated at the site. Historic fill has been documented across much of the property, and remains as the only unresolved AOC; and will be remediated through the implementation of engineering and institutional controls, as detailed in the *Remedial Action Workplan (RAWP),* developed by Langan, dated ***XXX***.

This QAQCP addresses all aspects of the remedial action including waste characterization sampling and testing requirements, imported fill material

sampling and testing requirements, documentation and record-keeping requirements, and field and laboratory requirements.

1.2 Project/Task Description

The specific scope of work for these operations is included in the *Remedial Action Workplan (RAWP),* developed by Langan, dated ***XXX***.

The proposed development includes the construction of a public park. As necessary, the project design has accommodated the environmental construction requirements to address the New Jersey Department of Environmental Protection (NJDEP) requirements, including installation of engineering controls over the site soils.

The historic environmental conditions associated with the Site are detailed in the following reference documents:

- *Preliminary Assessment Report* (PAR) for the subject Site dated January 2012, and completed by Boswell McClave Engineering
- *Site Investigation Report* (SIR) dated January 2012, and completed by Boswell McClave Engineering

The environmental investigation and interim remedial action operations documented in the reference documents has provided for a Site for which only one (1) environmental AOC remains, Historic Fill. The Historic Fill has been documented to underlie the entire site, and be of a defined character, which is understood to be non-hazardous in nature. The existing Historic Fill Site soils typically contain one or more of the following constituents, at levels above the NJDEP Residential Direct Contact Soil Remediation Standard (SRS): benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic and lead.

Provided the defined environmental conditions for the site, no additional investigation operations are anticipated to be required for soil, groundwater, vapor intrusion media, other than for off-site management of excess materials, and/or imported clean fil material management.

2.0 PROJECT/TASK ORGANIZATION

2.1 Project Team

The construction, and environmental remediation activities, associated with the construction of a public park will be managed by Starr Whitehouse, New York, New York; and supported by Langan for engineering components of the project. The construction will be implemented by a yet to be determined (YTB) contractor.

As necessary, ***YTB*** will retain professional construction and consulting companies to provide selected services to facilitate the project. All of the companies providing operations for the project will be appropriately licensed and/or certified for the scope of services and tasks they specifically provide to the project.

The work activities for this project will be performed in accordance with the NJDEP's *Technical Requirements for Site Remediation* (TRSR, N.J.A.C. 7:26E-1 et. seq.), the NJDEP's *Field Sampling Procedures Manual* (FSPM, August 2005), and the *Alternative and Clean Fill Guidance for SRP Site (ACFG)*, Version 2.0, December 29, 2011.

The organizational structure and responsibilities defined below are designed to assure adequate project control and proper quality assurance for investigation activities at the site. All personnel assigned to the project will be qualified to perform the task to which they are assigned. Key contacts for this project are as follows:

Project Personnel from YTB

Mr. **X** is the Project Manager (PM) for the site.

Mr. **X** is the Health and Safety Officer (HSO).

Mr. **X** is the Site Safety Officer (SSO).

The ***YTB*** Project Team can be contacted at:
XXXX
YYYY
ZZZ

Project Personnel from Langan

Mr. Eric Meyer and Ms. Kristen Ward will serve as the Quality Assurance Coordinators (QAC). Mr. Ledyard Smith is Langan's Field Team Leader. The Langan Project Team's contact points are as follows:

Langan Engineering & Environmental Services
619 River Drive Center 1
Elmwood Park, NJ 07407
O: 201-794-6900
F: 201-794-0366
emeyer@langan.com
kward@langan.com

Analytical Laboratory

The Hampton-Clarke laboratory (NJDEP Certification #07071) contact for this project is Kristen Simonis. The laboratory's Project Communication Form is provided as ***Appendix A***.

The laboratory contact points are as follows:
Hampton-Clarke
175 Route 46 West

Fairfield, NJ 07004

800-426-9992

email

2.2 Special Training Needs / Certifications

2.2.1 Site Personnel

All on-site personnel are required to complete an ***initial 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training program (or its equivalent) as detailed in OSHA's*** (Occupational Safety and Health Administration) 29 CFR 1910.120(e). Annual 8-hour refresher training is also required to maintain competencies and ensure a safe work environment.

Sub-contractor personnel are also required to have proper certification and use all appropriate Personal Protection Equipment (PPE) for the operation of all equipment utilized on-site.

2.2.2 Laboratory

Hampton-Clark, Inc. is required to obtain and maintain an appropriate NJDEP Office of Quality Assurance Certification. Such certification is maintained through the National Environmental Laboratory Accreditation Program (NELAP) or through the Environmental Laboratory Certification Program (ELCP). The laboratory must be currently certified in the analytes and methods described in this QAPP, and are required to provide this information to Langan prior to the commencement of field activities. Minimum training and certification requirements for laboratory personnel are described in the laboratory Quality Assurance Manual (QAM). A copy of the current laboratory certification is provided as ***Appendix B***.

3.0 DATA QUALITY OBJECTIVES AND CRITERIA FOR MEASUREMENT DATA

Data Quality Objectives (DQOs) are qualitative and quantitative statements to help ensure that data of known quality are obtained during the project. The overall objective of this project is to characterize historic fill for appropriate waste disposal in accordance with the TRSR, the NJDEP FSPM, and the *Technical Guidance for Site Investigation (SI) of Soil, Remedial Investigation (RI) of Soil, and Remedial Action (RA) Verification Sampling for Soil (July 2012)* for the AOC; and to address sampling and testing requirements for imported fill material pursuant to the *Alternative and Clean Fill Guidance for SRP Site (ACFG)*, Version 2.0, December 29, 2011. This investigation is limited to the soil matrix.

The DQO's for sampling activities have been determined by evaluating four factors:

- **Required Detection Limits -** The laboratory analytical results for the off-site disposal will be compared to the NJDEP-permitted disposal facility requirements.

  The laboratory analytical results for the imported fill material will be compared to the SRS.

- **Data Needs and Uses -** In the event that the waste is characterized as hazardous; a hazardous waste disposal facility will be identified. Otherwise, soil stockpiles are expected to be disposed at **XXX** facility (**To Be Determined**), subject to disposal facility approval.

- **Parameters of Interest -** The parameters of interest are identified pursuant to the guidance documents and regulations listed above.

  Historic fill soil typically contain one or more of the following constituents, at levels above the NJDEP SRS: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, lead. The full list of waste characterization parameters is provided as ***Table 1***.

The imported fill material parameters of interest will be the SRS.

- **Required Analytical Level -** The level of data quality, data precision, and QA/QC documentation required for chemical analysis is outlined in the *Data of Known Quality Protocols Technical Guidance (April 2014)*, with the applicable DKQP requirements provided in ***Table 2***.

3.1 Precision

Precision is the measure of agreement among repeated measurements. Langan will monitor the precision in accordance with ***Table 2***, as provided as part of this QAQCP. In addition, Langan will utilize the same analytical methodology in all stockpile sampling events.

Langan will collect field duplicates for each analytical method, at a minimum rate of one for every twenty samples (5% of total). Field duplicates will be submitted to the laboratory as a "blind sample."

3.2 Accuracy

Accuracy is the degree of agreement of a measured value with its true value. Langan will monitor the accuracy or bias in accordance with ***Table 2***, and the *Quality Assurance Project Plan Technical Guidance (QAPP) (April 2014*) ***Appendix C.*** In addition, Langan will utilize the same analytical methodology in all sampling events.

Bias is defined as the constant or systematic distortion of a measurement process which manifests itself as a persistent positive or negative deviation from the known or true value. In order to evaluate for bias, the QAC will monitor accumulated data in accordance with ***Table 2***.

Accuracy in the field is assessed through the use of field blanks, and through compliance to all sample handling, preservation and holding time requirements.

All associated field blanks should be non-detect at the reporting limit when analyzed by the laboratory. Any contaminant detected in an associated field blank will be evaluated against laboratory blanks (preparation or method) and evaluated against associated field samples to determine the potential for bias.

Laboratory accuracy is assessed by evaluating the percent recoveries of matrix spikes, matrix spike duplicates, laboratory control samples, instrument calibration and calibration check standards and the results of laboratory blanks. Matrix spikes recoveries, laboratory control sample recoveries and instrument calibrations will be compared the control limits identified in ***Table 2.*** Sample volume permitting, samples displaying outliers should be reanalyzed. All associated method blanks should be non-detect at the reporting limit when analyzed by the laboratory.

3.3 Representativeness

Representativeness expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition within a defined spatial and/or temporal boundary. Representativeness is dependent upon the adequate design of the sampling program and will be satisfied by ensuring that the sampling design is followed and that sampling and analysis techniques described in this document are implemented.

Representativeness in the laboratory is ensured by compliance to nationally-recognized analytical methods, meeting sample holding times, and maintaining sample integrity while the samples are in the laboratory's possession. This is performed by following all applicable methods, laboratory-issued standard operating procedures, the laboratory's QAM and this QAQCP. The laboratory is required to be properly certified and accredited.

3.4 Comparability

Comparability expresses the degree of confidence with which one data set can be compared to another. No other data sets are to be utilized in this investigation. All data accumulated in this investigation will be completed using the same sample collection and handling methods, sample preparation, and analytical procedures, holding times, stability issues and QA protocol to help ensure data comparability.

3.5 Completeness

Completeness is a measure of the amount of usable data collected compared to the amount of data expected to be obtained. The QC objective for completeness is generation of valid data for at least 90% of the analyses requested.

3.6 Sensitivity

Sensitivity refers to the ability of an analytical procedure to quantify an analyte at a given concentration.

For the waste disposal operations, the laboratory reporting limits (RLs) for methodologies utilized must be below the waste disposal facility requirements. Demonstration of this sensitivity must be provided by the laboratory to Langan prior to the commencement of field activities.

For the imported clean fill operations, the laboratory reporting limits (RLs) for methodologies utilized must be below the applicable SRS and method specific limits. Demonstration of this sensitivity must be provided by the laboratory to Langan prior to the commencement of field activities.

Langan requires that a table be provided by the laboratory with preliminary data and the standards mentioned above to the QAC so a review of the RLs can be performed. In the event that the RLs for analytes with no detections are not

able to meet the standards, the QAC and the laboratory contact will work to identify issues related to the methodologies to achieve compliance with the standards, and re-sampling of these areas may potentially be required.

3.7 Historical and Secondary Information / Data

No historical or secondary information or data are expected to be utilized for this project. If such information/data is generated or obtained, this section will be updated to provide a methodology for the review of the information / data.

4.0 SAMPLE COLLECTION AND FIELD DATA ACQUISITION PROCEDURES

Environmental sampling for this project is anticipated to be isolated to two operations, as follows: 1) assessing the proposed imported fill material being brought onto the project site, 2) offsite disposal of soil and/or concrete media.

The imported fill material assessment will be focused on reviewing laboratory data to ensure the proposed material is in compliance with the *NJDEP Alternative and Clean Fill Guidance for SRP Sites*, Version 2.0, December 29, 2011.

The off-site material management will be focused on the collection, laboratory analysis, and assessment of the laboratory data to accommodate the licensed/certified disposal facility disposal permit requirements.

Soil sampling will be conducted in accordance with the established NJDEP protocols contained in the FSPM (August 2005 – last updated April 2011). The following sections describe procedures to be followed for specific tasks.

4.1 Field Documentation Procedures

Field documentation procedures will include summarizing field data in field books and notes and proper sample labeling. These procedures are as follows:

4.1.1 Field Data and Notes

Field notebooks contain the documentary evidence regarding procedures conducted by field personnel. Hard cover, bound field notebooks will be used because of their compact size, durability and secure page binding. The pages of the notebook will not be removed. Entries will be made in waterproof, permanent blue or black ink. No erasures will be allowed. If an incorrect entry is made, the information will be crossed out with a single strike mark and the change initialed and dated by the team member making the change.

Each entry will be dated. Entries will be legible and contain accurate and complete documentation of the individual or sampling team's activities or observations made. The level of detail will be sufficient to explain and reconstruct the activity conducted. Each entry will be signed by the person(s) making the entry.

The following types of information will be provided for each sampling task, as appropriate:

- Project name and number
- Reasons for being on-site or taking the sample
- Date and time of activity
- Sample identification numbers
- Geographical location of sampling points with references to the site, other facilities or a map coordinate system. Sketches will be made in the field logbook when appropriate
- Physical location of sampling locations such and stockpile identification
- Description of the method of sampling including procedures followed, equipment used and any departure from the specified procedures
- Description of the sample including physical characteristics, odor, etc.
- Readings obtained from health and safety equipment

- Weather conditions at the time of sampling and previous meteorological events that may affect the representative nature of a sample
- Photographic information including a brief description of what was photographed, the date and time, the compass direction of the picture and the number of the picture on the camera
- Other pertinent observations such as the presence of other persons on the site, actions by others that may affect performance of site tasks, etc.
- Names of sampling personnel and signature of persons making entries

4.1.2 Sample Labeling

Each sample collected will be assigned a unique identification number and placed in an appropriate sample container. Each sample container will have a sample label affixed to the outside with the date and time of sample collection and project name. In addition, the label will contain the sample identification number, analysis required and chemical preservatives added, if any. All documentation will be completed in waterproof ink.

4.2 Soil Sample Collection

Soil samples from soil stockpiles, and/or soil borings will be collected from either decontaminated stainless steel sampling devices, and/or dedicated acetate or polyvinylchloride liners extracted from a decontaminated Macro-Core® barrel. Non-disposable, down-hole drilling equipment and sampling apparatus will be decontaminated between locations. When handling soil samples, field personnel will wear nitrile gloves that will be replaced after each sample.

4.3 Field Instrument / Equipment Calibration and Frequency

A PID (Photoionization Detector) will be used to field-screen soil locations and determine the depth of the soil sample. The calibration and maintenance history of the field instrumentation is an important aspect of the project's overall QA/QC program. As such, all initial and continuing calibration procedures will be implemented by trained personnel following the manufacturer's instructions and NJDEP specifications, where appropriate, to ensure the equipment is functioning within the tolerances established by the manufacturer and the NJDEP.

Documentation pertinent to the calibration and/or maintenance of the PID will be maintained in an active field logbook. Entries made into the logbook regarding the status of any field equipment will contain, but are not necessarily limited to, the following information:

- Date and time of calibration
- Identification number (such as the serial number) of equipment being serviced.
- Reference standard used for calibration
- Calibration and/or maintenance procedure used
- Other pertinent information

Equipment that fails calibration and/or becomes otherwise inoperable during the field investigation will be removed from service and segregated to prevent inadvertent use. Such equipment will be properly tagged to indicate that it should not be used until the nature of the problem can be assessed. Any equipment requiring repair or recalibration must be approved for use by the Field Team Leader or SSO prior to placement back into service. Equipment that cannot be repaired or recalibrated will be replaced.

4.4 Field Quality Control

Field blanks collection will be completed consistent with the methods detailed in the NJDEP FSPM Section 2.5.1.1, and will be analyzed for the same parameters

as the investigative samples. The field duplicate sample is to be collected for each parameter, and the results will be compared to the original sample to ascertain the precision of the methodology as follows:

- Results greater than 5 times the laboratory RL must have a relative percent difference (RPD) $\leq$ 50%.
- Results less than 5 times the RL must have an absolute difference the $\leq$ 2X ±RL.

4.5 Inspection / Acceptance of Supplies and Consumables

A visual inspection and screening with a PID will be performed on all consumables not obtained from a sealed, certified sterile container. Any equipment with visual staining and/or PID hits will not be utilized, and a sealed, certified sterile piece of equipment will be utilized.

Direct push equipment is required to be decontaminated between each new location. The "three-step equipment decontamination procedure non-aqueous matrix only" procedure established in the NJDEP *Field Sampling Procedures Manual* (FSPM) (NJDEP August 2005) will be implemented for this equipment. This process is as follows:

- Laboratory grade glassware detergent and tap water scrub to remove visual contamination
- Generous tap water rinse
- Distilled and deionized (ASTM Type II) water rinse

The use of distilled and deionized water commonly available from commercial vendors is acceptable for sampling equipment decontamination.

4.6 Sample Handling, Storage, Transport and Custody Requirements

Sample bottles for each sampling event will be obtained directly from the laboratory the day prior to the event and kept inside the laboratory-provided sample coolers. Samples collected will immediately be labeled, recorded on the Chain of Custody, and stored in the laboratory-provided sample coolers on ice. Clean bottleware will be held separately from used bottleware.

Samples are to be picked up from the site at the end of the day by the laboratory, and the laboratory courier will transport the samples to the laboratory. The samples will be logged into the LIMS system by close-of-business the next day, and the QAC will review the Laboratory Information System (LIMS) system the next day to identify and remedy any log-in errors.

The laboratory should contact the QAC when the preliminary sample results are available, and should remind the QAC on how many days remain for the viability of the samples remaining. The QAC will communicate with the lab within three business days on whether additional analysis and/or holding of samples are required.

5.0 ANALYTICAL LABORATORY REQUIREMENTS

5.1 Project Compounds and Analytical Summary

The parameters included in this sampling are to include the list provided as ***Table 1***.

5.2 Analytical Quality Control

The analytical measurement performance criteria are provided as ***Table 2***.

5.3 Laboratory Data Review and Reporting

The laboratory will follow their QAM, SOPs, and this QAQCP for all sample analyses. The laboratory will also be responsible for the oversight of the data quality for all analyses.

All analytical data shall be reviewed by the laboratory and will include a minimum of two levels of documented review. The first level of review, by the analyst, shall include QC review, method compliance, and documentation accuracy. The second level of review shall be performed by a supervisor, another analyst, or data review specialist. The function of this review is to provide an independent, complete peer review of the analytical data. For each level, the review process shall include the evaluation of data quality based on both the results of the QC data and the professional judgment of those conducting the review.

The laboratory data reviewer will evaluate the work quality, based on an established set of laboratory guidelines and this QAQCPP. At a minimum, laboratory review will help ensure that:

- Sample preparation information is correct and complete;
- Analysis information is correct and complete;
- Analytical results are correct and complete;
- QC samples and criteria are within established control limits;
- Blanks are within appropriate QC limits;
- Special sample preparation and analytical requirements have been met; and
- Documentation is complete (all anomalies in the preparation and analysis have been documented; out-of-control forms, if required, are complete; holding times are documented).

The laboratory will perform the in-house analytical data reduction and QA review under the direction of the laboratory data review supervisor. The laboratory QA Manager is responsible for assessing data quality and advising the QAC of any data which were rated "preliminary" or "unacceptable", or otherwise qualified

which would caution the data user of possible unreliability. Data reduction, QA review and reporting by the laboratory will be conducted as follows:

- Raw data produced by the analyst will be processed and reviewed for attainment of quality control criteria as outlined in this QAQCP and/or established EPA methods and for overall quality;
- After entry into the LIMS, a computerized report will be generated and sent to the laboratory data reviewer
- The data reviewer will decide whether sample re-analysis is required; and
- Upon acceptance of the preliminary reports by the data reviewer, final reports will be generated.

5.4 Laboratory Data Deliverables

The laboratory will supply a data deliverable that supports sufficient traceability and QC for legally defensible data for all NJDEP-certified analyses. Analytical data from the laboratory will be reported in a Reduced Laboratory Data Deliverable format (NJDEP Regulatory Format IV as per Appendix A of N.J.A.C. 7:26E) for all waste characterization and soil sample delivery groups. For each sample for which QA/QC problems are encountered, the sample identification number, data with outlying quality control, specific analytical problem, and corrective action will be reported in the case narrative.

The laboratory shall supply the results of analyses in a four file format electronic data deliverable (EDD) suitable for editing and submission, as well as laboratory data packages in Adobe Acrobat (*.pdf) format for all NJDEP-certified analyses. Prior to submission, the laboratory EDDs will undergo a check against the laboratory data. The data will also be provided in a format compatible with NJDEP's EDSA7 format (i.e., hazsite deliverables).

6.0 DATA REVIEW AND USABILITY

The analytical data generated by the laboratory will be evaluated for method and laboratory quality control compliance, and its validity and applicability for project purposes will be determined prior to issuance of deliverables. Those activities specifically conducted to help ensure that the quality assurance program described in this QAQCP is being implemented according to the specified requirements.

- To assess the effectiveness of the sample quality assurance program
- To identify non-conformances
- To verify that any identified deficiencies are corrected, if possible.

If any significant deviations from the quality assurance program are documented, corrective action measures will be immediately implemented and documented.

6.1 Data Management

All field generated data and notes shall be maintained electronically on Langan's server in the central file. All laboratory data and chain of custodies shall be maintained electronically on Langan's server, as well as on the laboratory LIMS website. Laboratory data will also be maintained electronically in Langan's central file.

Spreadsheets will be maintained by the staff personnel, and the QAC will perform spot checks to verify the data generated in the laboratory report is consistent with the data maintained in spreadsheets, focusing on samples with applied dilutions, elevated RL's, and analyte detections.

6.2 Data Verification and Usability

All data generated through field activities or by the laboratory operation will be assessed for compliance with NJDEP's Data of Known Quality Protocol developed for SW-846 Methods. Each data package will contain a

Conformance/Non-conformance Summary Questionnaire Form. A signed and dated narrative is required to achieve "Data of Known Quality" status for the data set.

Consistent with the *Data Quality Assessment and Data Usability Evaluation Technical Guidance* (April 2014), a data quality assessment (DQA) will be completed for each analytical data package provided by the laboratory. Table 3 details the measurement performance criteria and various types of QC information that will be evaluated during the DQA. Documentation of the process will be achieved through electronic completion of NJDEP-published Data Quality Assessment Worksheets 1 and 2 (***Appendix D***) and joined with a description of the performance of QA/QC not contained in the Worksheets (e.g., instrument calibration).

Following completion of all project DQAs, a Data Usability Evaluation (DUE) for soil will be developed to support the use of data for the purpose in which it was intended (i.e., waste characterization). The DUE will assess departures from DKQP and consider their potential effects. The NJDEP's Data Usability Evaluation Worksheet (***Appendix D***) will be completed in electronic form and joined with additional narration of DQA non-conformances, as necessary.

6.3 Archival Requirements

Analytical data will be archived by the laboratory for a minimum of seven years and made available by the laboratory upon request. Field records will be archived by the Langan for a minimum of ten years from the date of report submittal. Software and hardware that are used to generate, store, and retrieve the records shall be kept on file with the records. Samples and sample extracts will be held at the laboratory for a limited period of time following laboratory report generation (e.g., 30 days) in accordance with the individual laboratory's SOP and practical space constraints.

7.0 CORRECTIVE ACTIONS

Corrective or preventive action is required when existing or potential conditions are identified that may have an adverse impact on data quantity or quality. The ultimate responsibility for maintaining quality throughout the project rests with the QAC. The routine operation of the quality assurance program falls upon the Project Manager, the technical staff, and the laboratory personnel. Any member of the project staff who identifies a condition adversely affecting quality can initiate corrective action by notifying the Langan QAC. Any non-conformances with the established quality control procedures will be expeditiously identified and controlled. No additional work, dependent on the non-conforming activity, will be performed until the identified non-conformance is corrected.

The QAC, or qualified designee, will periodically review the procedures being implemented in the field for consistency with the established protocols. Sample collection, preservation, and labeling, etc., will be checked for completeness. Where procedures are not strictly in compliance with the established protocol, deviations will be documented and reported to the QAC. Corrective actions will be defined by the project manager and documented as appropriate. Upon implementation of the corrective action, documentation of the corrective action will be added to the project file.

The laboratory's Project Manager, or qualified designee, will review the analytical data generated to help ensure that all quality control samples have been analyzed as specified in the protocol. Recoveries of spike samples will be checked for consistency with method accuracy and duplicate samples will be checked with method precision. Where sample results fall outside of the acceptable ranges, deficiencies will be reported to the laboratory's Project Manager.

Table 1

	Parameter Name	Type	Category	Limits	Units	85% of Limit	HC RL
	Ignitibility	As Received		>140	F		
	Oil & Grease	As Received			mg/kg		67
	Paint Filter Test	As Received		No free liquids			
	PCB's	As Received		50			0.025
	pH	As Received		2 - 12.5	S.U.		
	Reactive Cyanide	As Received		100			5
	Reactive Sulfide	As Received		500			100
	Total Solids	As Received					
	Total Volatile Solids	As Received					
	Ammonia-Nitrogen	ASTM		111111	mg/l		1
	Chemical Oxygen Demand	ASTM					10
	Oil & Grease	ASTM		88550	mg/l		5
	Total Solids	ASTM					40
	pH	TCLP					
	Arsenic	TCLP	Metals	5	mg/l	4.25	0.1
	Barium	TCLP	Metals	100	mg/l	85	0.25
	Cadmium	TCLP	Metals	1	mg/l	0.85	0.050
	Chromium	TCLP	Metals	5	mg/l	4.25	0.1
	Copper	TCLP	Metals	167	mg/l	142	0.1
	Lead	TCLP	Metals	5	mg/l	4.25	0.050
	Mercury	TCLP	Metals	0.2	mg/l	0.17	0.0007
	Nickel	TCLP	Metals	242	mg/l	206	0.10
	Selenium	TCLP	Metals	1	mg/l	0.85	0.1
	Silver	TCLP	Metals	5	mg/l	4.25	0.050
	Zinc	TCLP	Metals	1875	mg/l	1594	0.1
	2,4-D	TCLP	Herb	10	mg/l	8.5	0.005
	2,4,5-TP	TCLP	Herb	1	mg/l	0.85	0.005
	Chlordane	TCLP	Pest	0.03	mg/l	0.0255	0.001
	Endrin	TCLP	Pest	0.02	mg/l	0.017	0.0001
	Heptachlor	TCLP	Pest	0.008	mg/l	0.0068	0.0001
	Heptachlor Epoxide	TCLP	Pest	0.008	mg/l	0.0068	0.0001
	Lindane	TCLP	Pest	0.4	mg/l	0.34	0.0001
	Methoxychlor	TCLP	Pest	10	mg/l	8.5	0.0001
	Toxaphene	TCLP	Pest	0.5	mg/l	0.425	0.0025
	2,4,5-trichlorophenol	TCLP	Acids	400	mg/l	340	0.008
	2,4,6-trichlorophenol	TCLP	Acids	2	mg/l	1.7	0.008
	m-cresol	TCLP	Acids	200	mg/l	170	
	o-cresol	TCLP	Acids	200	mg/l	170	0.002
	p-cresol	TCLP	Acids	200	mg/l	170	
	Pentachlorophenol	TCLP	Acids	100	mg/l	85	0.040
	2,4-dinitrotoluene	TCLP	Base/Neutral	0.13	mg/l	0.1105	0.008
	Hexachlorobenzene	TCLP	Base/Neutral	0.13	mg/l	0.1105	0.008
	Hexachlorobutadiene	TCLP	Base/Neutral	0.5	mg/l	0.425	0.008
	Hexachloroethane	TCLP	Base/Neutral	3	mg/l	2.55	0.008
	Nitrobenzene	TCLP	Base/Neutral	2	mg/l	1.7	0.008
	Pyridine	TCLP	Base/Neutral	5	mg/l	4.25	0.040
	1,1-dichloroethyiene	TCLP	Volatiles	0.7	mg/l	0.595	0.001
	1,2-dichloroethane	TCLP	Volatiles	0.5	mg/l	0.425	0.0005
	1,4-dichlorobenzene	TCLP	Volatiles	7.5	mg/l	6.375	0.001
	Benzene	TCLP	Volatiles	0.5	mg/l	0.425	0.0005
	Carbon Tetrachloride	TCLP	Volatiles	0.5	mg/l	0.425	0.001
	Chlorobenzene	TCLP	Volatiles	100	mg/l	85	0.001
	Chloroform	TCLP	Volatiles	8	mg/l	6.8	0.001
	Methyl ethyl ketone	TCLP	Volatiles	200	mg/l	170	0.001
	Tetrachloroethylene	TCLP	Volatiles	0.7	mg/l	0.595	0.001
	Trichloroethylene	TCLP	Volatiles	0.5	mg/l	0.425	0.001
	Vinyl Chloride	TCLP	Volatiles	0.2	mg/l	0.17	0.001

For samples used to determine volatile organics (VOCs), EPA method 5035 shall be employed on grab samples. Composite samples shall not be use to determine volatile organics.

Sample: One (1) composite sample and one(1) grab sample (for VOCs) for every 500 cubic yards

QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Linear Dynamic Range (LDR)	At a minimum the LDR should be check every 6 months	A minimum of 3 different concentration standards across the ICP range; one should be near the upper limit of the range.	NA	Analyst
Accuracy	A	Initial Calibration	Daily prior to sample analysis	Minimum of a calibration blank plus a standard per manufacturing recommended procedures; RL standard may be included in multi- point calibration curve; linear curve fit with correlation coefficient >0.995.	Re-optimize instrument and re-calibrate, repeat until successful	Analyst
Accuracy	A	Initial Calibration Verification (ICV)	Daily after calibration	Separate-source from calibration standards; must contain all target analytes ICV: 90-110% recovery	Re-analyze; if still out, Re-calibrate as required by method; suspend all analysis until ICV meets criteria	Analyst
Accuracy	A	Initial Calibration Blanks (ICB)	After ICV	Must be matrix-matched (and same concentration of acid found in standards and samples); ICB: < ± RL	Re-analyze ; if still out, Re-calibrate and reanalyze.	Analyst
Accuracy	A	Continuing Calibration Verification (CCV)	1 of every 10 samples and at end of run	Same source as calibration standards; conc. near mid-point of calibration curve; must contain all target analytes CCV: 90 - 110% recovery	Re-analyze; if still out, Re-calibrate and reanalyze. all samples since last acceptable CCV	Analyst

QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Sensitivity	A	Continuing Calibration Blanks (CCB)	After each CCV	Must be matrix-matched (and same conc. of acid found in standards and samples); CCB: < ± RL	Re-calibrate, if still out, Re-calibrate and reanalyze.	Analyst
Accuracy & Sensitivity (Contamination)	A	Method Blank (MB)	1 per digestion batch - not to exceed 20 field samples	Must be digested with samples using same preparation method and amount of acids; MB: < RL	Re-analyze; if still out redigest & re-analyze all samples unless all detected results > 10x MB level	Analyst
Accuracy	A	Interference Check Standards (ICSA and ICSAB)	Daily after calibration	ICSA & ICSB: 80-120% recovery ICSA: non-spiked analytes < 2x RL	Re-analyze; if still out; adjust interference and background correction, and/or linear ranges as needed & recalibrate and reanalyze all field samples since last complaint ICSA & ICSB	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample (LCS)	1 per digestion batch - not to exceed 20 field samples	Must contain all target analytes and be matrix-specific; Aq. LCS: 80- 120% recovery; Soil/Sediment/solid LCS: vendor control limits (95% confidence limits)	Re-analyze, if still out; redigest & Re-analyze LCS & all field samples in batch	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per < 20 field samples if an MS/MSD was not performed	Must be performed on a Site field sample. For soil and aqueous samples: Results ≥ 5xRL, RPD ≤ 20% aqueous, 35% solids; Results < 5xRL: absolute difference between results ≤ RL.	Re-analyze, qualify data	Analyst/Data Reviewer

QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010B

Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	S & A	Matrix Spike (MS) [Site-specific QC]	1 per < 20 field samples	Must be performed on a Site field sample; MS: 75-125% recovery; professional judgment if sample concentration > 4x spike level	Evaluate LCS, unspiked sample and qualify data	Analyst/Data Reviewer
Precision	S & A	Matrix Spike Duplicate (MSD) [Site-specific QC]	1 per < 20 field samples	Must be performed on a Site field sample. For soil and aqueous samples: Results ≥ 5xRL, RPD ≤ 20% aqueous, 35% solids; Results < 5xRL: absolute difference between results ≤ RL.	Lab narrates outlier; qualify data	Analyst/Data Reviewer
Accuracy	A	Post digestion spike	1 per < 20 field samples if less than acceptable accuracy and precision data are generated	Should be performed if MS/MSD recoveries were unacceptable: 80- 120% recovery	Lab narrates outlier; qualify data	Analyst/Data Reviewer
Accuracy	A	Serial Dilution	1 per < 20 field samples if less than acceptable accuracy and precision data are generated	Perform 5x dilution on same sample used for MS. % Difference < 10% for results >50x IDL (which will most likely equate to 10X RL).	Lab narrates outlier qualify data	Analyst/Data Reviewer
Accuracy	A	Quantitation	Not applicable	RL ≤ results ≤ linear calibration range on a sample-specific basis. Report all Aq. results in µg/L or mg/L and all Soil/Sediment results in mg/Kg on a dry-weight basis.	Perform dilution to bring analyte within linear range; report from diluted analysis	Analyst/Data Reviewer
Overall Precision & Represent-ativeness	S & A	Field Duplicate Sample [Site-specific QC]	1 per 20 field samples	Aq.: Results ≥ 5xRL: RPD ≤ 30%; Results < 5xRL: professional judgment; Soil/Sediment: Results ≥ 5xRL: RPD ≤ 50%; Results < 5xRL: professional judgment	Potential data usability issue; indication of sample heterogeneity	Data Reviewer

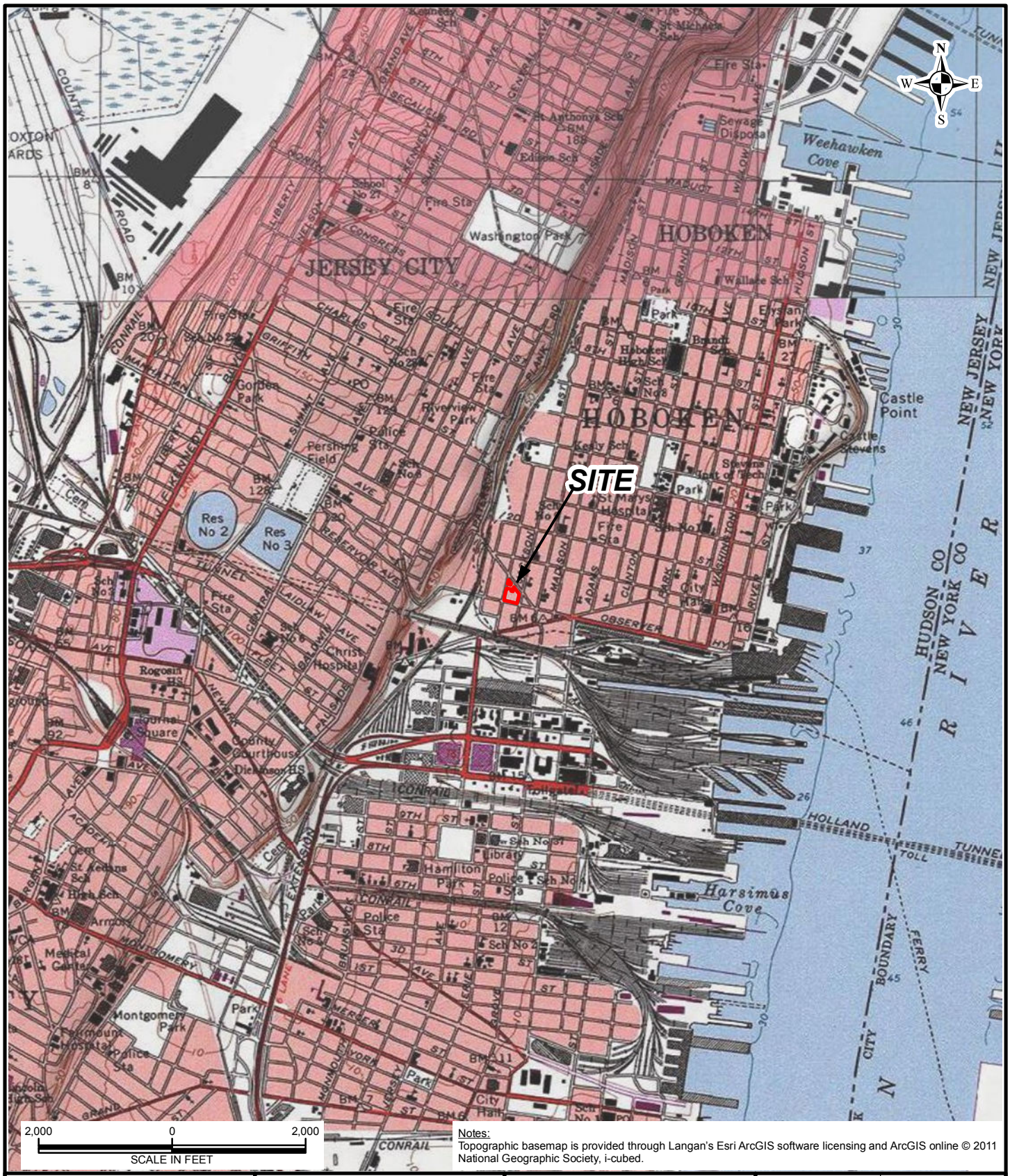
QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy (preservation)	S & A	Sample preservation	every field sample	Aq.: Total Metals: HNO_3 pH < 2; (Dissolved Metals: filter on site or at the lab then HNO_3 pH < 2 but cannot be used for regulatory compliance) Soil/Sediment: collect unpreserved per SW-846 Chapter 3 Table 3-2	Lab narrates outlier. Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	Minimum > 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Accuracy/ Sensitivity	S & A	Holding Time (HT)	every field sample	For aqueous and soil samples six months. If Soil/Sediment samples are frozen, HT arrested and HT begins when thawed. Samples can be maintained frozen for 1 year from collection.	Lab narrates outlier. Potential data usability issue	Data Reviewer
Accuracy & Sensitivity (Contamination)	S & A	Equipment Rinsate Blank (EB)	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method	Aqueous EB: < RL Soil/Sediment EB <RL on solid equivalent basis	Aqueous Potential data usability issue, Soil/Sediment: non-matrix matched aqueous EB use professional judgment	Data Reviewer
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:

1.This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance and meet the data quality needs of the Department.

2.Method References = USEPA SW-846 Method 6010B (*Inductively Coupled Plasma-Mass Spectrometry* , December 1996 and February 2007) and (*Quality Assurance and Quality Control Requirements and Performance Standards for SW846 Method 6010B, Trace Metals by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP)*).



2,000 0 2,000

SCALE IN FEET

Notes:
Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online © 2011 National Geographic Society, i-cubed.

LANGAN

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

SW PARK

BLOCK No. 12, LOT No. 1-7, 9, 12-18
NJDEP SRP PI# 585028
HOBOKEN

HUDSON COUNTY NEW JERSEY

Drawing Title

USGS SITE LOCATION MAP

Project No. 100497601	Figure 1
Date 11/20/2014	
Scale 1"=2,000'	
Drawn By ATR	
Last Revised 12/4/2014	

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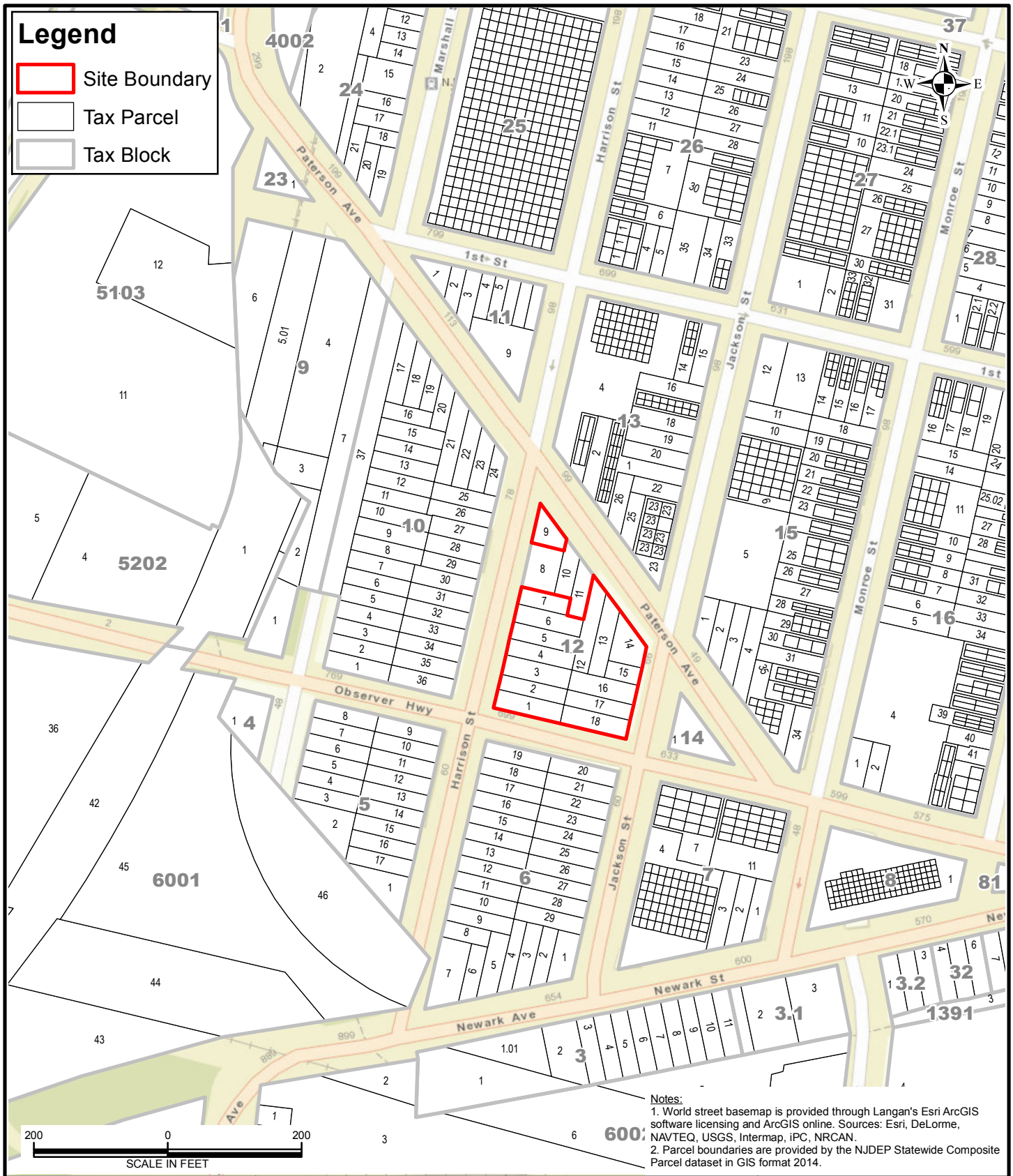
Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\SW Park Env\Figure 1 - Site Location Map.mxd Date: 12/4/2014 User: aruane Time: 1:12:45 PM



Notes:
1. World street basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN.
2. Parcel boundaries are provided by the NJDEP Statewide Composite Parcel dataset in GIS format 2014.

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	Drawing Title	Project No.	Figure
SW PARK BLOCK No. 12, LOT No. 1-7, 9, 12-18 NJDEP SRP PI# 585028 HOBOKEN HUDSON COUNTY NEW JERSEY	MUNICIPAL TAX MAP	100497601	2
		Date: 11/20/2014	
		Scale: 1"=200'	
		Drawn By: ATR	
		Last Revised: 12/4/2014	

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Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\SW Park Env\Figure 2 - Municipal Tax Map.mxd Date: 12/4/2014 User: aruane Time: 1:12:58 PM

APPENDIX A

Project Communications Form

Hampton-Clarke
WBE/DBE/SBE 800-426-9992

Project Communication Form

Client Name: _____

Project Name: _____ **Project Number:** _____

Project Manager: _____ **Field Manager:** _____

Phone: _____ Phone: _____

Email: _____ Email: _____

Sample Matrix:

☐ **Ground Water** ☐ **Surface Water** ☐ **Soil** ☐ **Sediment** ☐ **Drinking water**

☐ **Air** (☐ Indoor ☐ Sub-slab ☐ Ambient)

☐ **Other:** _____

DKQP Analyses/Methods:

☐ **VOC 8260C** ☐ **VOC 8260C SIM** ☐ **Pesticides 8081B** ☐ **PCBs 8082A** ☐ **PAH 8270D** ☐ **BN 8270D**

☐ **BNA 8270D** ☐ **BN/BNA/PAH 8270D SIM** ☐ **524.2** ☐ **TO-15** ☐ **LLTO-15** ☐ **TO-17**

☐ **NJDEP EPH** ☐ **6010C Metals** ☐ **6020A Metals** ☐ **Total CN 9010C** ☐ **Total CN 9012B**

☐ **Hex Chrome 7196A** ☐ **Mercury 7471B** ☐ **Mercury 7470A**

☐ **Other Tests:** _____

TAT Required: **Standard:** _____ **Other:** _____

Constituents of Concern: Please note any known or suspected contaminants in high concentrations or any non-standard analytes not contained in routine target lists (see notes).

Regulatory Criteria:

☐ **Soil Remediation Standards (Residential Direct Contact);**

☐ **Soil Remediation Standards (Nonresidential Direct Contact);**

☐ **Default Impact to Ground Water Soil Screening Levels;**

☐ **Default Leachate Criteria for Class II Ground Water (SPLP);**

☐ **Class IIA Ground Water Quality Standards;**

☐ **Specific Ground Water Quality Criteria;**

☐ **Surface Water Quality Criteria;**

☐ **Maximum Contaminant Level (MCL) for State Regulated VOCs;**

☐ **Vapor Intrusion Ground Water Screening Level;**

☐ **Vapor Intrusion Residential Indoor Air Screening Level;**

☐ **Vapor Intrusion Nonresidential Indoor Air Screening Level;**

☐ **NJDEP Action Levels for Indoor Air;**

☐ **Vapor Intrusion NJ Department of Health Notification Level;**

☐ **Extractable Petroleum Hydrocarbons;**

☐ **Hexavalent Chromium Cleanup Criterion;**

☐ **Ecological Screening Criteria;**

☐ **Other:**_____

Quality Control Requirements: Indicate if your project will have project-specific field quality control samples. Check all that apply. Also specify if special QA/QC site requirements exist: i.e., QAPP.

☐ **Field Blank(s)** ☐ **Trip Blank(s)** ☐ **Sample Duplicate**

☐ **Matrix Spike** ☐ **Matrix Spike Duplicate** ☐ **Other Field QC**

☐ **Project QAPP (**Send appropriate section(s) to lab)

Data Deliverables Requirements: Indicate the data deliverable type required:

☐ **Full deliverables** ☐ **Reduced deliverables** ☐ **Paper copy included**

☐ **Excel spreadsheet** ☐ **HAZSITE** ☐ **TO-15 Unit Conversion Table**

☐ **Other:** _____

Expected Sampling Date(s): Indicate expected number of sampling events or duration:

_____

Total Number of Samples and Expected Sample Load per Day: (indicate number of each matrix if applicable):

_____

Sample Pick Up:

☐ **Office** (address): _____

☐ **Site** (address): _____

☐ **Other:** _____

Special Instructions:

☐ **Report TICs**

☐ **Project-specific analyte list**

☐ **Project-specific criteria**

☐ **Historically elevated concentrations of target analytes**

☐ **Multi-day sampling event**

Notes:

There are standard target analytes for organic analysis. Refer to the methods for a list of specific compounds. If a contaminant of concern is not contained on the target list of a method, it is important that the laboratory know this prior to sampling. Prior notification will allow the laboratory to obtain standards and perform necessary instrument calibration to insure proper identification and quantification. **If requesting non-routine compounds that have no regulatory criteria, indicate required reporting limit for each compound.**

APPENDIX B

Hampton-Clarke, Inc. NJDEP Laboratory Certification

State of New Jersey
Department of Environmental Protection
Certifies That

Hampton - Clarke / Veritech

Laboratory Certification ID # 07071

is hereby approved as a

Nationally Accredited Environmental Laboratory

to perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.

and

having been found compliant with the 2009 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2015

Joseph F. Aiello, Manager
Office of Quality Assurance

NJDEP is a NELAP Recognized Accreditation Body

This certificate is to be conspicuously displayed at the laboratory with the annual certified parameter list in a location on the premises visible to the public. Consumers are urged to verify the laboratory's current accreditation status with the State of NJ, NELAP.

APPENDIX C

Quality Assurance Project Plan Technical Guidance (QAPP) (April 2014)

New Jersey Department of Environmental Protection

Site Remediation Program

QUALITY ASSURANCE PROJECT PLAN TECHNICAL GUIDANCE

Version 1.0

April 2014

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1 Intended Use of Guidance Document

This guidance is designed to help the person responsible for conducting remediation to comply with the New Jersey Department of Environmental Protection's (Department's) requirements established by the Technical Requirements for Site Remediation (Technical Rules), N.J.A.C. 7:26E. Because this guidance will be used by many different people that are involved in the remediation of a contaminated site such as Licensed Site Remediation Professionals (LSRPs), Non-LSRP environmental consultants and other environmental professionals, the generic term "investigator" will be used to refer to any person who uses this guidance to remediate a contaminated site on behalf of a remediating party, including the remediating party itself.

The procedures for a person to vary from the technical requirements in regulation are outlined in the Technical Rules at N.J.A.C. 7:26E-1.7. Variances from a technical requirement or guidance must be documented and be adequately supported with data or other information. In applying technical guidance, the Department recognizes that professional judgment may result in a range of interpretations on the application of the guidance to site conditions.

This guidance supersedes previous Department guidance issued on this topic. Technical guidance may be used immediately upon issuance. However, the NJDEP recognizes the challenge of using newly issued technical guidance when a remediation affected by the guidance may have already been conducted or is currently in progress. To provide for the reasonable implementation of new technical guidance, the NJDEP will allow a 6-month "phase-in" period between the date the technical guidance is issued final (or the revision date) and the time it should be used.

This guidance was prepared with stakeholder input. The following people were on the committee who prepared this document:

- Greg Toffoli, Chair, New Jersey of Environmental Protection (Department), Office of Data Quality
- Nancy Rothman, Ph.D., New Environmental Horizons, Inc.
- Rodger Ferguson, CHMM LSRP, Pennjersey Environmental Consulting
- Stuart Nagourney (Department), Office of Quality Assurance
- David Robinson, LSRP, Synergy Environmental, Inc.
- Joseph Sanguiliano (Department), Office of Data Quality
- Phillip Worby, Accutest Laboratories, Inc.

2 Purpose

The purpose of this document is to provide guidance on the development and use of Quality Assurance Project Plans (QAPPs) associated with the remediation of sites for the New Jersey Department of Environmental Protection (Department) Site Remediation Program (SRP) as required by the Technical Rule, at N.J.A.C. 7:26E-2.2. All other applications or use of this technical guidance at non-SRP sites or properties is beyond the scope and authority of the SRP regulations.

This document has been developed to assist Licensed Site Remediation Professionals (LSRPs), Department case reviewers and/or managers, and other environmental professionals, collectively the investigator, to obtain scientifically reproducible and reliable data, i.e., Data of Known Quality Protocols (DKQP), that meets the Data Quality Objectives (DQOs) established for the investigation and remediation of the contaminated site. The intent of this technical guidance is to provide guidance for investigators to address the majority of SRP sites where data collection is required as part of the remedial process.

QAPPs are the primary result of a systematic planning process and are used to document the results of planning, to implement environmental operations, and to assess project data. It is important to remember during the QAPP development process that data quality is an issue because of the possibility of both variability and error in sampling and analysis. The natural environment is inherently variable; nothing stays the same from time-to-time or from place-to-place. In addition, all of our measurement processes are flawed to some degree, imposing error on top of the inherent variability. The QAPP documents the results of the project's technical planning process, providing a single and concise plan for the collection and management of environmental data and the DQO.

While making sure to cover all of the elements described herein, the investigator should not let this guidance in any way limit the team's investigation of alternative materials that might be useful for understanding the substance or rationale for the project. In addition, this guidance is most applicable to environmental monitoring projects that do not involve extensive modeling or research components (for modeling projects, see United States Environmental Protection Agency (USEPA), *Guidance for Quality Assurance Project Plans,* EPA QA/G-5, December 2002, EPA/240/R-02/009).

The QAPP should be prepared by the investigator in cooperation with representatives from all groups (i.e., Investigator, Laboratory, Driller, the Department, etc.) expected to be involved in the project. It should be completed before environmental data collection or use activities begin. When changes in the project will affect the technical or DQO of the project, the QAPP will need to be amended with notification of all project participants. QAPPs for multi-year projects should be reviewed periodically and revised when necessary.

This QAPP Guidance should be used in concert with other Department guidance documents, the Regulations Implementing the Underground Storage of Hazardous Substances Act (N.J.A.C. 7:14B), the Industrial Site Recovery Act (N.J.A.C. 7:26B), the Technical Requirements for Site Remediation (N.J.A.C. 7:26E), and other relevant and applicable regulations.

Based on the professional judgment of the investigator, or as required by the Department, other planning documents may be utilized to develop a QAPP. Departure from this QAPP guidance would constitute a deviation that requires justification in the next Remedial Phase (Preliminary Assessment/Site Investigation Report, Remedial Investigation Report, Remedial Action Workplan and/or Remedial Action Report) submitted to the Department. Other documents which may be used include the following:

- USEPA, *EPA Requirements for Quality Assurance Project Plans, EPA QA/R-5*, March 2001 (Reissued May 2006), EPA/240/B-01/003;
- USEPA, *Guidance for Quality Assurance Project Plans,* EPA QA/G-5, December 2002, EPA/240/R-02/009;
- USEPA Region II, *Guidance for the Development of Quality Assurance Project Plans for Environmental Monitoring Projects*, April 12, 2004.
- Intergovernmental Data Quality Task Force, *Uniform Federal Policy for Quality Assurance Project Plans, V*ersion 2, EPA-505-B-04-900A, March 2005;
- CTDEP, *Laboratory Quality Assurance and Quality Control Data Quality Assessment and Data Usability Evaluation Guidance Document*, December 2010;
- MADEP, *MCP Representativeness Evaluations and Data Usability Assessments Policy*, WSC-07-350, September 19, 2007; and
- MADEP, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data in Support of Response Actions Conducted Under the Massachusetts Contingency Plan (MCP)*, WSC – CAM – VII A, July 1, 2010.

3 Document Overview

This guidance document discusses the procedures for the development and implementation of QAPPs. Specifically, the document provides the following:

- Establishes the importance of the inclusion of DQOs and Data Quality Indicators (DQIs) in the data quality framework;
- Establishes the importance of the use of the Conceptual Site Model (CSM) in determining the DQOs;
- Incorporates the concept of DKQPs; and
- Offers a framework for the investigator to assess and determine the usability of the data collected incorporating the following documents:
    - *Draft Laboratory Quality Assurance and Quality Control: NJDEP Data Quality Assessment and Data Usability Evaluation Guidance Document*, August 2012; and
    - *Draft Laboratory Quality Assurance and Quality Control Guidance – Data of Known Quality Protocols*, January 2012.

4 Procedures

The QAPP integrates all technical and quality aspects of a project, including planning, implementation, and assessment. The purpose of the QAPP is to document the planning for environmental activities and to provide a project-specific "blueprint" for obtaining the type and quality of environmental data needed for a specific decision or use.

Laboratory QA/QC is a comprehensive program used to define and document the quality of analytical data. QA involves planning, implementation, assessment, reporting, and quality improvement to establish the reliability of laboratory data. QC procedures are the specific tools that are used to achieve this reliability. An effective QA/QC program should identify and document DQOs to support the question, "What do I need to do at the site and what information do I need?" It establishes sampling design criteria not only to acquire representative site data but also to acquire information on the data quality indicators (DQI). The investigator should include an evaluation of the DQIs associated with each site data set to determine if the pre-established DQO was achieved.[1]

The QAPP defines how QA and QC are applied to environmental activities to assure that the results obtained are of the type and quality needed. The ultimate success of a remediation depends on the quality of the environmental data collected and used in decision-making, and this may depend significantly on the adequacy of the QAPP and its effective implementation.

This technical guidance incorporates the principles of CSMs, DQOs, and DQIs to achieve DKQ. All of these principles are detailed in the sections that follow. A total program to produce DKQ should include both a QA and QC component, which encompasses the management procedures and controls to assess the precision, accuracy, completeness, sensitivity, and representativeness of the site data set.

4.1 Conceptual Site Model

A Conceptual Site Model (CSM) is a written and/or illustrative representation of the conditions and the physical, chemical and biological processes that control the transport, migration and

[1] MADEP, *Overview of the Analytical Data Enhancement Process for the Massachusetts Contingency Plan*, WSC-CAM, July 1, 2010.

potential impacts of contamination (in soil, air, ground water, surface water and/or sediments) to human and/or ecological receptors. The CSM is an iterative tool that provides a description of relevant site features and the surface and subsurface conditions to understand the nature and extent of identified contaminants of concern (COCs) and the risk they may pose to identified receptors. The level of detail of the CSM should match the complexity of the site and available data. Development and refinement of the CSM will help identify investigative data gaps in the characterization process and can ultimately support remedial decision-making.

Initially, potential sources of contaminants are identified and investigated. These may include tanks, material transport areas, drainage conveyance areas, production areas, waste disposal areas, etc. Potential contaminants as well as their actual concentrations in the various matrices onsite including soil, sediment, surface water, groundwater, biota, and air should be fully characterized to understand the nature and extent of contamination and the potential for contaminant migration. Potential migration pathways for these contaminants to receptors are then identified and evaluated to assess exposure risks. Incomplete pathways should also be identified.

Preparation and use of the CSM is an iterative process throughout the lifecycle of the project and should be developed with the investigator in cooperation with representatives from the groups expected to be involved in the project. The CSM should be modified, as needed, to evaluate the relationship between sources of contaminants, migration pathways, and receptors as new data become available. Evaluation of these three components through the completion of the CSM, in conjunction with initial preparation and subsequent revisions to the Receptor Evaluation form is necessary to ensure receptors are identified and addressed.[2]

4.2 Data Quality Objectives

DQOs are developed by the investigator to ensure that a sufficient quantity of information is collected and to ensure that the quality of the analytical data generated meet the goals of the project and support defensible conclusions that are protective of human health and the environment. DQOs should be developed at the beginning of a project, revisited, and modified, if necessary, as the project progresses. Similarly, the quality of the analytical data is evaluated in relation to the DQOs throughout the course of a project.

[2] NJDEP, *Conceptual Site Model*, version 1.0, December 16, 2011.

It is important to document the DQOs for a project in the context of the CSM so there is a roadmap to follow during the project and so there is documentation that the DQOs were met after the project is finished. Typical analytical DQOs include, but are not limited to the following:

- Sensitivity DQO established by defining the reporting limit requirements for the analytical data. The non-detect values (i.e., reporting limits) should be reported at or below the applicable and relevant numeric regulatory standards and/or criteria[3] as promulgated, revised, and published by NJDEP[4], including but not limited to the following:
    - Residential Direct Contact Health Based Criteria and Soil Remediation Standards (RDC SRS),[5] http://www.nj.gov/dep/srp/regs/rs/rs_rule.pdf
    - Nonresidential Direct Contact Health Based Criteria and Soil Remediation Standards (NRDC SRS),[6] http://www.nj.gov/dep/srp/regs/rs/rs_rule.pdf
    - Default Impact to Groundwater Soil Screening Levels for Contaminants,[7] http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf
    - Default Leachate Criteria for Class II Ground Water (Synthetic Precipitation Leachate Procedure);[8] http://www.nj.gov/dep/srp/guidance/rs/splp_guidance.pdf
    - Specific Ground Water Quality Criteria (Groundwater Quality Standards),[9] http://www.nj.gov/dep/rules/rules/njac7_9c.pdf
    - Surface Water Quality Criteria for Toxic Substances (SWQC),[10] http://www.nj.gov/dep/rules/rules/njac7_9b.pdf
    - Maximum Contaminant Levels (MCL) for State Regulated VOCs,[11] http://www.state.nj.us/dep/rules/rules/njac7_10.pdf

[3] NJDEP, N.J.A.C. 7:26E-2.1(a)4.
[4] NJDEP, *Electronic Compendium of Selected Environmental Standards*, http://www.nj.gov/dep/standards/ .
[5] NJDEP, *Remediation Standards*, N.J.A.C. 7:26D.
[6] NJDEP, *Remediation Standards*, N.J.A.C. 7:26D.
[7] NJDEP, *Development of Site-Specific Impact to Ground Water Soil Remediation Standards Using the Soil-Water Partition Equation,* December 2008, http://www.nj.gov/dep/srp/guidance/rs/.
[8] NJDEP, *Guidance for the use of the Synthetic Precipitation Leaching Procedure to Develop Site-Specific Impact to Ground Water Remediation Standards*, June 2, 2008, http://www.nj.gov/dep/srp/guidance/rs/.
[9] NJDEP, *Groundwater Quality Standards*, N.J.A.C. 7:9C.
[10] NJDEP, *Surface Water Quality Standards*, N.J.A.C. 7:9B.
[11] NJDEP, *Safe Drinking Water Act Regulations*, N.J.A.C. 7:10.

- NJDEP MASTER TABLE GENERIC VAPOR INTRUSION SCREENING LEVELS including
  - Vapor Intrusion Groundwater Screening Levels (GWSL),[12]
  - Vapor Intrusion Residential Indoor Air Screening Level (RIASL),[13]
  - Vapor Intrusion Nonresidential Indoor Air Screening Level (NRIASL),[14]
  -

  All at http://www.nj.gov/dep/srp/guidance/vaporintrusion/vig_tables.pdf

- NJDEP Action Levels for Indoor Air,[15] http://www.nj.gov/dep/srp/guidance/vaporintrusion/vig_tables.pdf

- Vapor Intrusion Health Department Notification levels (HDNL)[16] http://www.nj.gov/dep/srp/guidance/vaporintrusion/vig_tables.pdf

- Extractable Petroleum Hydrocarbons (EPH)[17] http://www.nj.gov/dep/srp/guidance/srra/eph_method.pdf

- Hexavalent Chromium Cleanup Criterion[18] http://www.state.nj.us/dep/srp/guidance/rs/chrome_criteria.pdf

- Ecological Screening Criteria[19] http://www.nj.gov/dep/srp/guidance/ecoscreening/esc_table.pdf

- site specific criteria developed for the investigation and remediation according to the applicable NJDEP guidance; and

- The RL for a specific substance when determining the extent and degree of polluted soil, groundwater, or sediment from a release. For the purpose of this document, the RL is defined as:
  - Organics, the lowest initial calibration standard as adjusted for the dilution factor, sample weight/volume, and moisture content;
  - Inorganics, the concentration of that analyte in the lowest level check standard (which could be the lowest calibration standard in a multi-point calibration curve).

[12] NJDEP, *Vapor Intrusion Technical Guidance*, criteria dated Version 3.1 March 2013, http://www.nj.gov/dep/srp/guidance/vaporintrusion/.
[13] Ibid.
[14] Ibid.
[15] Ibid.
[16] Ibid.
[17] NJDEP, *Protocol for Addressing Extractable Petroleum Hydrocarbons,* Version 5.0, August 9, 2010, http://www.nj.gov/dep/srp/guidance/srra/eph_protocol.pdf.
[18] NJDEP, *Chromium Soil Cleanup Criteria,* April 2010.
[19] NJDEP, *Ecological Screening Criteria,* March 10, 2009, http://www.nj.gov/dep/srp/guidance/ecoscreening.

- Accuracy DQO established by defining acceptance criteria (QA/QC criteria) for recovery of analytical spikes and instrument performance (e.g., calibrations) or the use of reference materials;
- Precision DQO established by defining acceptance criteria for precision between duplicate results (laboratory and/or field duplicates);
- Representativeness DQO established by defining the sampling plan, the procedures and protocols used to collect, preserve, and transport samples, and by defining appropriate methods for analysis;
- Completeness DQO established by defining the amount of valid data required for project decisions; and
- Comparability DQO defined by establishing comparable methods of sampling and analysis throughout the project.

The DQOs, which are based on the intended use of the analytical data, determine the reliability of the analytical data to make sound, rational decisions regarding data usability. For example, analytical data can be used by an investigator to determine if a discharge in exceedance of the NJDEP standards and/or criteria has occurred, evaluate the nature and extent of a release, confirm that remediation is complete, or determine compliance with the applicable and relevant numeric standards and/or criteria.

4.3 Data of Known Quality Protocols

If the remedial process is to run effectively and efficiently, analytical and environmental monitoring data must be scientifically valid and defensible. A level of precision and accuracy commensurate with the intended use should take into consideration relevant regulations, technical guidance and LSRP's professional judgment.

Many of the analytical methods used in conjunction with the remediation of sites for SRP contain QA/QC criteria that are specified as guidance, the results of which are QA/QC criteria that are variable and different for each laboratory (albeit QA/QC criteria that may be acceptable under the constraints of a method). It is this variability that poses an impediment to the goal of consistency, especially with regard to data usability decisions. If the assessment and usability process is to work efficiently and effectively, then it is important that the analytical QA/QC followed is the same for all laboratories. If not, the task of creating and using a technical guidance document that addresses the assessment and usability of data (most decisions of

which are based on the results of laboratories' QA/QC results) may become difficult to interpret. If data are to be assessed and used uniformly and consistently by the investigator and others, then it is beneficial to standardize the QA/QC associated with analytical methods.

To this end, the Department has developed DKQP.

The primary function of the DKQPs is to describe specific QA and QC procedures which, if performed by the laboratory, will provide analytical data of known and documented quality. Other components of this guidance include a DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY that the laboratory may use to demonstrate whether the data meets the guidelines for "Data of Known Quality". When "Data of Known Quality" are achieved for a particular data set, the investigator will have confidence that the laboratory has followed the DKQPs, has described non-conformances, if any, and has adequate information to make judgments regarding data quality. This will enable the investigator to subsequently evaluate whether the quality of the data is sufficient for its intended purpose.

Key document submittals should include details regarding any known conditions or findings that may affect the usability of analytical data. Data that comply with the QC/QA and performance standards detailed in the individual QAPP may be considered **Data of Known Quality (DKQ)**. In order to achieve DKQ, the investigator should:

- Use the DKQP specified for the particular contaminant species and matrix analyzed;
- Incorporate required analytical QC elements specified in the QAPP;
- Implement, as necessary, required corrective actions and analytical response actions for non-conforming analytical performance standards;
- Evaluate and narrate, as necessary, identified DKQPs non-compliances; and
- Comply with the reporting requirements specified in the *Site Remediation Reform Act*, Technical Rule, and/or *Administrative Requirements for the Remediation of Contaminated Sites* (ARCCS).

Achieving DKQ status should be considered minimum requirements to assure data validity. Investigators have an obligation, to demonstrate and document an overall level of QA/QC (laboratory and field), data usability, and data representativeness adequate for the **intended use of the data**.

Investigators who elect not to utilize the DKQP should utilize a more robust traditional data validation approach. In cases where DKQ is achieved, but where data are qualified as being outside a required QC limit (e.g., low surrogate recoveries), additional evaluation, and possibly additional field sampling and analysis, may be necessary. For example, the investigator may want to collect additional post excavation samples to be satisfied that low surrogate spike recoveries obtained in original samples are reproducible and due to sample matrix effects. However, an investigator performing an initial site investigation may consider data from analyses with low surrogate recoveries as "usable" if the associated data is above regulatory limits and additional investigation is required.

4.4 Laboratory Accreditation/Certification

The Department's Office of Quality of Assurance (OQA) currently provides laboratory certification for potable water, wastewater, soil, and air matrices according to approved methods and individual parameters. The purpose of the laboratory certification program is to identify laboratories in both the public and private sectors that are capable of consistently producing valid data. The Department's OQA is a recognized accreditation body in the National Environmental Laboratory Accreditation (NELAP) program. Towards this end, OQA evaluates laboratories to ensure that they meet and continue to meet the performance and resource criteria set forth in Department's Laboratory Certification Regulations, N.J.A.C. 7:18, regarding laboratory personnel and qualifications, facilities, equipment, methodology employed, and QA/QC practices.

OQA's review, which includes proficiency tests and biennial on-site inspections, will help ensure that the data produced by the laboratories are of known and documented quality, and suitable for their intended purpose. **However, it should be clearly understood that certification alone cannot guarantee the "validity" of the data produced by a laboratory. The determination of the validity and usability of laboratory data is the responsibility of the investigator.**

In the Technical Rule, SRP requires the collection of data from a certified laboratory wherever possible, regardless of whether the determination is performed in the field or in the laboratory itself:

> "Laboratories or companies involved in any laboratory or field activity that provide data of known quality must have all applicable certifications for the specific parameters or

categories for which certification exists pursuant to the Regulations Governing the Certification of Laboratories and Environmental Measures, N.J.A.C. 7:18"" [20] and For the analysis of samples for parameters or categories of parameters for which certification is not available pursuant to N.J.A.C. 7:18, the person responsible for conducting the remediation shall ensure that the selected laboratory is capable of performing the analysis and meeting the data quality objectives specified in the site specific QAPP prepared pursuant to N.J.A.C. 7:26E-2.2. At such time as certification for the affected parameters or categories of parameters is codified in N.J.A.C. 7:18, the procedures in N.J.A.C. 7:18 shall be followed.[21]

There may be instances where combinations of certified and non-certified methods are employed during the characterization or remediation of a contaminated site, as is frequently the case during a Triad investigation. In these instances, the investigator should clearly document in the QAPP the development of an analytical hierarchy based on the number of samples collected in the field and analyzed in the laboratory (at least 10% of field-screened samples should be analyzed by a certified laboratory method.) For example, if the investigator is collecting field samples screening for lead by x-ray fluorescence, then one sample out of every ten in the field should be submitted to a certified laboratory for analysis and the correlation of the field-screened and certified laboratory results reported in the next key document.

4.5 NJDEP Requirements

A QAPP is a required part of a Remedial Investigation Workplan (RIW) and the Remedial Action Workplan (RAW). The QAPP may be submitted as part of a key document, for example, the RIW or RAW, or alternatively, as a standalone document. Furthermore, the development of a QAPP is consistent with the Department's overarching Quality Management Plan.

It is recommended that the CSM, DQOs, and QAPP be applied at the earliest stages of sample collection and analysis to ensure that the appropriate methodologies are utilized. For example, the Site Investigation (SI) phase does not currently require that a QAPP be submitted. However, the Technical Rule requires that the SI be performed and the investigator is to: "Compare all site data with all remediation standards and criteria; identify as contaminated areas of concern those areas where site data demonstrate that contaminant concentrations

[20] N.J.A.C. 7:26E-2.1(a)1.
[21] N.J.A.C. 7:26E-2.1(a)2.

exceed any remediation standard or criterion; and determine if any immediate environmental concern exists".[22] While this reference does not specifically address QA/QC principles, one should consider the importance of the QA process as it applies to the initial confirmation that a discharge may have occurred. For example, if the data obtained during the SI do not exceed the applicable standards and/or criteria, the investigator may likely seek a Response Action Outcome (RAO) or No Further Action (NFA). Without the benefit of the CSM, DQO, and QAPP process, the DKQ may not be adequately achieved or adequately characterize the potential discharge through the collection of scientifically defensible and reproducible data.

The following language has been excerpted from the Technical Rule (N.J.A.C. 7:26E) regarding the contents of a QAPP:

7:26E-2.2 Quality assurance project plan

(a) The person responsible for conducting the remediation shall prepare and follow a quality assurance project plan for all sample and data collection.

(b) The person responsible for conducting the remediation shall include the following in a quality assurance project plan:

1. *Problem definition;*
2. *Site specific project and data quality objectives;*
3. *Sample design and rationale, including where samples will be taken;*
4. *Names and contact information of the following project specific personnel:*
   - *i. Project manager;*
   - *ii. Quality assurance coordinator;*
   - *iii. Health and safety coordinator;*
   - *iv. Identification of laboratory(ies) that will be used for sample analyses including certification number(s); and*
   - *v. Laboratory contact;*
5. *A sample summary table containing (at a minimum) the following:*
   - *i. Matrix type;*
   - *ii. Analytical parameters;*

[22] N.J.A.C. 7:26E-3.3(d).

iii. *Number of samples for each matrix;*

iv. *Frequency of sample collection;*

v. *Number and frequency of field/trip blanks; and*

vi. *Number and frequency of duplicate samples;*

6. *A detailed description of sampling methodologies for each matrix tested along with standard operating procedures references;*

7. *Field documentation procedures;*

8. *A list of all field instrumentation being utilized;*

9. *Inclusion of a reference to a standard operating procedure that describes the operation of all field instrumentation being utilized including:*

   i. *Calibration procedures;*

   ii. *Calibration check procedures;*

   iii. *Proper usage;*

   iv. *Data recording;*

   v. *Preventative maintenance; and*

   vi. *A detailed description of field quality assurance/quality control procedures;*

10. *A detailed description of sample handling and chain-of-custody procedures;*

11. *A detailed description of field storage and transport procedures;*

12. *A sample container/preservation/holding time table including:*

    i. *Sample volumes to be collected per matrix;*

    ii. *Sample containers used per matrix;*

    iii. *Sample preservation required per method and matrix; and*

    iv. *Sample holding times;*

13. *An analytical methods summary table listing all analytical methods to be used to analyze all samples;*

14. *Project compounds summary including:*

    i. *List of compounds by method and matrix;*

ii. Project action limits by method and matrix; and

iii. Project quantitation limits denoting analytical sensitivity requirements by method and matrix;

15. Measurement performance criteria and quality control samples to be used by method and matrix;

16. Quality assurance and quality control requirements for analysis;

17. Laboratory data deliverable formats to be used;

18. Procedure for review (verification and usability procedures) including data assessment versus stated data quality objectives of laboratory data;

19. A discussion of how corrective action procedures are to be implemented and documented relative to potential deviations to the project quality objectives;

20. A detailed description of the laboratories quality assurance/quality control procedures; and

21. Data and records management and archive procedures.

5 QAPP Elements

When developing the QAPP, the investigator should consider the following items to determine the extent of the documentation necessary to meet the DQO and establish the DKQ. Using a graded approach,[23] not all items may need the same level of detail for each QAPP. It is important to recognize that a "one size fits all" approach will neither work in all situations nor is it necessary. The level of detail of the QAPP should be based on a graded approach so that the detail in each QAPP will vary according to the nature of the work being performed and the intended use of the data. As a result, an acceptable QAPP for some environmental data operations may require a qualitative discussion of the experimental process and its objectives while others may require extensive documentation to adequately describe a complex environmental program.

The investigator should orient the planning process toward developing performance criteria appropriate to the decision to be made to ensure that the nature of the planning process (and the level of activity required) is appropriate to the needs of the project. The following items should be considered when developing a QAPP.

[23] Intergovernmental Data Quality Task Force, *Uniform Federal Policy for Implementing Environmental Quality*, EPA-505-F-03-001, May 2005, page 37.

5.1 Administrative Sections

5.1.1 Title and Approval Pages

Information to be included here is as follows:

- Project title;
- Organization name;
- Person Responsible for Conducting the Remediation and Department Program Interest Number;
- Date of project initiation and effective date of plan;
- Responsible program (i.e., NJDEP SRP);
- Names, titles, signatures, and signature dates of approving officials; and
- Distribution list.

Approving officials may include the LSRP of record for the site, Project/Site Manager (if different from the LSRP), QA manager and/or the Department's project manager and QA officer (for publicly funded sites). If more than one agency or organization is involved, additional lines should be added for each organization. An individual's signature may be considered that they have reviewed and approved of the plan. A distribution list should be included to help insure that all individuals involved with the implementation of the project receive a copy of the QAPP and any future revisions. The distribution list should provide the names, positions, and contact information for all individuals listed.

5.1.2 Table of Contents

A table of contents is recommended for all projects and is required if the document being submitted is longer than ten pages. The table of contents should include sections, lists of figures, tables, references, and appendices.

5.2 Project Definition/Background

This section should be written such that a technical person, unfamiliar with the project, will understand what is intended. State the specific problem to be addressed and the expected decision(s) to be made. Include background/historical information supporting the need for the project. This represents the justification for all that follows in the document. This section should be consistent with the CSM.

5.2.1 Project Definition

- Describe why the project is being undertaken and what the investigator intends to accomplish;
- State the overall project goals and objectives;
- State the intended use of the data by describing how and when decisions will be made; and
- Identify the data users for the project.

5.2.2 Background

This background information will provide an historical perspective for the project.

- Provide information indicating and supporting the need for this work (e.g., historical use of the site that resulted in releases, etc.);
- Discuss any previous work or data collected as they relate to the project; and
- Discuss the CSM for the project.

5.2.3 Project/Task Description

This section should provide a management summary of the work that will be conducted and a schedule for implementation. Specific technical details about the work will be provided in later sections of the QAPP.

- Identify any special personnel and/or equipment requirements;

- Include maps, as appropriate, showing the areas of concern;
- Identify what data will be collected directly via the project and what data will be obtained from other sources;
- Describe the approach taken to address the project's objectives, connecting what is needed to how it will be obtained;
- Delineate the anticipated project schedule from initiation to final report submission, listing all intervening major events or actions. This may be prepared in tabular form; and
- Identify appropriate technical, regulatory or program-specific quality standards.

5.3 Project/Task Organization

5.3.1 Project Team

The investigator has primary overall responsibility for the QAPP. This individual assures that an appropriate QAPP is prepared for the specific scope-of-work. The QAPP should be implemented as written; however, the QAPP may be modified and amended at any time as conditions warrant. The investigator should document any changes that have been made.

It is recommended that the QAPP include an organizational chart identifying key personnel and/or organizations (listed below) showing relationships and lines of communications. If names are not known because project personnel are not finalized, they should be supplied prior to the start of work or the QAPP should be amended as appropriate.

- Project manager;
- Quality Assurance coordinator;
- Health and safety coordinator;
- Identification of laboratory(ies) that will be used for sample analyses, including certification number(s); and
- Laboratory contact.

5.3.2 Special Training Needs/Certification

The QAPP should identify any special training and certification requirements needed by any project personnel for field or laboratory activities and how this information will be provided, documented, and assured. Describe any special certification requirements.

5.4 Data Quality Objectives and Criteria for Measurement Data

The chosen monitoring design and the sampling and analytical procedures can greatly affect the usability of the data for a specific purpose. Remember that both variability and error will affect data quality. In order to estimate and report these effects, the QAPP should describe the quality criteria for the data to be produced. Development of the data quality criteria can be accomplished via the formal DQO process described in the EPA document “Guidance for the Data Quality Objectives (DQO) Process,” EPA/600/R-96/055. This DQO process will result in qualitative and quantitative outputs that define the acceptance criteria for the data. For most projects, however, a less iterative process is normally used to develop the project specific DQOs.

DKQ requires the development of performance acceptance criteria that are sometimes expressed as DQIs. The principal DQIs are precision, accuracy (bias), representativeness, comparability, completeness, and sensitivity (collectively the PARCCS parameters). These DQIs are discussed below and in the tables specific to typical analytical methodologies required by NJDEP in the Technical Rule. In each case, when possible, acceptance criteria are specified in the QAPP, which indicates “how good” the data will need to be for use, and to serve as an early warning system to allow corrective action to be taken in real-time before the entire project is completed. The investigator should include the acceptance criteria, with the explanation of each DQI. Tabular DQIs for the typical certified laboratory methods have been attached as 0. (Please note that NJDEP offers accreditation for both SW-846 Methods and EPA 600-series Methods but the DKQPs are based on SW-846 Methods which are listed in Appendix D.) For each method and parameter, specify the precision, accuracy (bias), and sensitivity (reporting limits) acceptance criterion as described for the field and laboratory operations, respectively.

5.4.1 Precision

Precision is the measure of agreement among repeated measurements. State how the investigator will determine the precision of the data. This might include the following:

- Use the same analytical methods to perform repeated analyses on the same sample (laboratory or matrix duplicates);
- Use two or more laboratories to analyze identical samples with the same method (inter-laboratory precision evaluation); and
- Collect a field duplicate. (May be a split of a sample done in the field (field split) or a field co-located sample.) Submit both for evaluating the precision from sample collection, for sample handling, preservation and storage.

Precision for laboratory and field measurements can be expressed as the relative percent difference (RPD) between two duplicate determinations or percent relative standard deviation (%RSD) between multiple determinations. Acceptance criteria for laboratory precision are usually specified in the method or laboratory Standard Operating Procedure (SOP). Acceptance criteria for field precision will need to be developed based on the needs of the project during the QAPP development process.

5.4.2 Accuracy

Accuracy is the degree of agreement of a measured value with its true value. It should be noted that precise data may not be accurate data. Accuracy can be expressed as a percent recovery or percent deviation of the measurement with respect to its known or true value.

The QAPP should define how the accuracy will be determined, usually through establishing acceptance criteria for spike recoveries (e.g., surrogate recoveries, laboratory control sample recoveries, matrix spike recoveries, reference material recoveries, etc.) or allowable deviations for calibration (e.g., %RPD for calibration verification). Acceptance criteria for Laboratory Control Samples and matrix spike measurements are usually expressed as a percent recovery and are usually specified in the analytical method or laboratory SOP. Various blank samples (laboratory or field) may also be used to assess contamination of samples that may bias results high. Acceptance criteria for field bias are much more difficult to define and will usually need to be developed based on the needs of the project (Additional discussion of bias is discussed in

the DATA QUALITY ASSESSMENT AND DATA USABILITY EVALUATION TECHNICAL GUIDANCE

For the purpose of this section, bias is defined as the constant or systematic distortion of a measurement process, different from random error, which manifests itself (usually in one direction) as a persistent positive or negative deviation from the known or true value (resulting ultimately in uncertainty with regard to an analytical result). This may be due to (but not limited to) improper sample/data collection, sample matrix, poorly calibrated analytical or sampling equipment, or limitations or errors in analytical methods and techniques.

In the case of an analytical test result(s) from an environmental sample containing an unknown concentration of a particular analyte, there will always be a "true" concentration and an associated uncertainty that is some representation of the extent of deviation that the test result has from that true value. Uncertainty should not be confused with accuracy, even though accuracy is a constituent of the total uncertainty of a measurement. Accuracy is simply how far off the analytical result is from the true value. For additional information on bias, a good source of information may be found at, "Taylor, J.T., Quality Assurance of Chemical Measurements, Lewis Publishing, 1989, pgs. 215 - 221".[24]

With regard to and how it pertains to the QAPP, state how the investigator will determine any bias in the data. This might include analysis of reference materials Laboratory Control Samples and/or of matrix spike samples.

5.4.3 Representativeness

Representativeness is the extent to which measurements represent the site conditions. In almost every project, the investigator will not be able to measure the whole system, process, or situation of interest. Instead, the investigator will choose sample locations, quantities, and analyses in order to capture a sufficiently broad and/or weighted view of the situation. The investigator should have established sample locations, quantity, analyses, etc. during the development of the CSM. EPA's document, "Guidance on Choosing a Sampling Design for

[24] *Validation and Peer Review of U.S. Environmental Protection Agency Sampling Methods for Chemical and Radiochemical Parameters; prepared for: The EPA Forum on Environmental Measurements (FEM);* Prepared by: The FEM Method Validation Team; FEM Document Number 2007-02; December 17, 2007.

Environmental Data Collection (QA/G-5S) EPA/240/R-02/005," may be helpful in providing some assistance with the design of a monitoring/sampling effort. The Technical Rule (N.J.A.C. 7:26E 3.4(a)1; N.J.A.C. 7:26E 3.5(a)1; and N.J.A.C. 7:26E 3.6(b)1) requires the collection of samples biased towards suspected contamination (i.e., collect samples from areas of elevated PID readings, staining, odors, etc.).

In this section of the QAPP, describe how the collected data will accurately represent the population, place, time, or situation of interest, and the logical process that supports it. The monitoring design portion of the QAPP may be used to further elucidate representativeness. It may be appropriate to refer to the section of the CSM or Workplan in which the monitoring process design is described and justified. The investigator may even find it convenient to combine this section on representativeness with that section on the monitoring design. If determining a representative monitoring scheme is particularly difficult, consider collecting preliminary or reconnaissance data to help scope out the site so that the full nature and extent of the contamination can be completely understood.

5.4.4 Comparability

Comparability is defined as the extent to which data from one data set can be compared directly to similar or related data sets and/or decision-making standards. Historical data should be evaluated to determine whether they may be combined with data being collected in present time. Comparability should discuss comparisons of sample collection and handling methods, sample preparation, and analytical procedures, holding times, stability issues and QA protocol.

5.4.5 Completeness

Completeness is a measure of the amount of usable data collected compared to the amount of data expected to be obtained. Three measures of completeness are defined:

- Sampling completeness, defined as the number of valid samples collected relative to the number of samples planned for collection;
- Analytical completeness, defined as the number of valid sample measurements relative to the number of valid samples collected; and

- Overall completeness, defined as the number of valid sample measurements relative to the number of samples planned for collection.

Defining data completeness (generally reported as percent complete) will allow the investigator to establish DKQ even if 100% of the analyses do not comply with the DQO. The investigator may want to establish 100% data completeness for final delineation or post excavation samples in order to comply with the Technical Rule. A lower level of data completeness may be adequate during initial investigations or in situations where the initial extent of contamination is being sought.

For example, of the 20 samples planned to be collected, 80% or 16 are required for a valid determination of compliance. It should be noted that if there are critical samples collected, the completeness goal for these data is usually 100%. It is very important to define completeness requirements for statistically designed studies. It may be less important in other projects. The overall project completeness is usually assessed once all of the data have been acquired and evaluated for usability.

5.4.6 Sensitivity

Sensitivity refers to the ability of an analytical procedure to quantify an analyte at a given concentration. The sensitivity requirements should be established such that the laboratory method RL are at or below the relevant and applicable regulatory limits for each COC for the project. For the purpose of SRP projects:

- The Reporting Limit (RL) for a specific substance when determining the extent and degree of polluted soil, groundwater, or sediment from a release. For the purpose of this document, the RL is defined as:
    - Organics, the lowest initial calibration standard as adjusted for the dilution factor, sample weight/volume, and moisture content;
    - Inorganics, the concentration of that analyte in the lowest level check standard (which could be the lowest calibration standard in a multi-point calibration curve).

Methods for analysis should be chosen to meet the sensitivity requirements for a project (e.g., compound- and matrix-specific). If however, the laboratory RLs exceed the project sensitivity requirements (i.e., the RL is above the relevant and applicable regulatory standard), the

analytical methods may need to be adjusted (e.g., analysis conducted using a more sensitive method or sample preparation and analysis features adjusted to gain sensitivity) and/or the project objectives may need to be adjusted (i.e., certain COCs may not be able to be screened out during this phase of the evaluation). If available or affordable methods cannot achieve specified quality, the project is not likely to succeed. *(Quality Assurance of Chemical Measurements, John K. Taylor, CRC Press, Aug 2, 1987)*

The investigator should determine the minimum concentration that is required to achieve DKQ with respect to action or cleanup levels and work with the analytical laboratory to establish that these levels can be achieved utilizing the specified methodology. If the required action level cannot be achieved, the investigator should work with the laboratory (and if necessary NJDEP OQA) to determine the best methodology to achieve the specified sensitivity. In any event, the sensitivity for a particular COC should be lower than the applicable standard defined for the site in order to demonstrate compliance with appropriate action levels.

5.4.7 Historical and Secondary Information / Data

In many projects, it may be valuable or even necessary to use existing data (e.g., data not collected by the current investigator, historical environmental data, geographic/locational data, census data, socio-economic data, etc.). If the investigator chooses to use historical data then that data should be evaluated for applicability to current project objectives (such as those addressed in the QAPP).

“Secondary data” is defined as data that were collected for a different purpose than that for which they are now being used. When secondary data will be used for a current environmental project, an assessment of the secondary data should be performed to determine if the quality of the data is sufficient for the current project objective(s) and intended use and meets comparability criteria. It is not sufficient that the secondary data were produced by a reliable source, such as a peer reviewed publication, or a known environmental monitoring project with an approved QAPP.

When the data used are secondary data, evaluation of the appropriateness of the data application will be particularly important. In addition to a different purpose than the original data collection, the level of QA/QC provided at the time of data collection may be unknown. Issues for consideration in the use of secondary data include, but are not limited to:

- Similarities between the purpose of the original data collection and the purpose for which data are currently used; and
- Acceptable level of uncertainty associated with the current decision-making process to which secondary data will be applied.

The investigator should state the potential sources of the data and define the data quality acceptance and rejection criteria that will be used when performing the quality assessment of the secondary data. Describe the assessment process and discuss any limitations on the use of the data (e.g., geographic limitations, different sampling and/or analytical methods used, availability of the QA/QC records). Based on the established acceptance/rejection criteria, explain how data will be qualified and how deficiencies and data gaps will be resolved.

5.4.8 Investigation Process Design

The investigator should describe and justify the investigation design of the project. State the area of interest, what the investigator is testing for, and how often monitoring should occur. State the number of anticipated investigation points and how and why they will be selected. If appropriate, attach a map showing the site(s) and each monitoring point. Discuss how locational information will be obtained and documented, such as the use of Geographical Positioning System (GPS) instrumentation.[25]

The investigator should take into consideration those factors which could affect the variability of data such as: physical obstructions, seasonal variations, tidal influences, soil profile changes, weather-related and process variation within the source. Some questions to be answered in this section include, but are not limited to:

- Is the monitoring design probability or judgment based?
  - Probability based designs involve the random selection of sampling units.
  - Judgmental designs involve the selection of sampling units based on expert knowledge or professional judgment (such as sampling stained soil).
- What is the investigator comparing the results against, (previous data, regulatory standards, reference population, etc.)?
- How many samples/data points are needed?

[25] Mapping data should be compatible with the Department's preferred format as found in *Guidance for the Submission and Use of Data in GIS Compatible Formats* http://www.nj.gov/dep/srp/gis/index.html.

- What matrices need to be monitored and special sampling requirements for that monitoring (e.g., sub-slab versus ambient air monitoring)?
- Where does the investigator need to monitor?
- What is the required frequency of monitoring?
- How are monitoring locations determined?
- Are the matrices homogeneous or heterogeneous?
- Are composite samples appropriate?
- What QC samples are needed?

5.4.9 Investigation Methods

All investigation methods should be fully described, referenced, or attached to the QAPP in the form of approved SOPs. Specify all selected options and describe deviations from standard protocol. If the complete method descriptions, with all specified options, are readily available, cite the method and source. If these complete method descriptions are not readily available, they should be attached to the QAPP.

- List all needed equipment and supplies;
- Identify what to do when problems arise;
- If flow is to be determined, state how this will be performed;
- If samples are to be homogenized or split, state how and when this will be performed;
- For continuous monitoring, indicate what averaging time will be used and how the data will be averaged, stored, downloaded, and reported (telemeter);
- List all data acquisition and handling equipment and software. If software is to be developed or modified for the project, indicate how it will be tested and verified;
- For remote sensing, indicate the area to be imaged, the spatial resolution needed, and the degree of overpass; and
- Describe any field equipment cleaning/decontamination procedures used to prevent cross-contamination between monitoring points and events, and the verification of the effectiveness of the decontamination.

Field parameters commonly utilized to perform low flow monitoring well purging and sampling for the purpose of compliance should be determined by a NJDEP certified laboratory that holds

the applicable "analyze immediately" parameters, e.g., pH, temperature, dissolved oxygen, and conductivity. This is consistent with the SRP policy and OQA's guidance.[26]

5.4.10 Field Quality Control

Identify the field QC activities that will be conducted along with their frequency. Field and laboratory QC activities are designed to confirm and document that the actual measurement process is achieving its specified level of quality (the acceptance criteria).

Each QC activity addresses one of the DQIs specified above (e.g., precision, accuracy). Describe which data quality indicator each addresses, the acceptance criteria for each of the QC activities (e.g., Field Duplicate precision criteria for aqueous samples RPD ≤ 30%), and the corrective actions to be taken if the defined acceptance criteria are not met (e.g., high field duplicate imprecision may be an indication of sampling errors or sample heterogeneity). If unacceptable precision is obtained, steps should be taken to address the issue. Be sure to include all of the potential QC checks for each type of sample, each matrix, each method and each analyte, as appropriate, including, for example, the following: Equipment Blanks, Field Blanks, Trip Blanks, Cooler Temperature, Field Duplicate Pairs, Co-located Samples and Field Splits.

Much of this information can be summarized in tabular form as suggested below (see example):

Analyte(s)	**DQI**	**Data Quality Element**	**Frequency of Collection**	**Acceptance Criteria**	**Corrective Action(s)**
VOCs	Accuracy	Trip Blank	Matrix Matched, 1 per Sample Delivery Group	Analytes < RL	Qualify sample data associated with Trip Blank for any Analyte > RL

It is important to have the investigator plan to have an appropriate amount of sample taken if all intended QC samples taken are to be included in the investigation. Particularly, if site-specific MS/MSDs are to be performed, then sufficient sampling containers and sample amount must be provided and appropriately designated for laboratory analyses.

[26] NJDEP, Office of Quality Assurance, *Certification of Low Flow Parameters*, November 9, 2011.

5.4.11 Field Instrument/Equipment Calibration and Frequency

- List the equipment that will require calibration;
- Describe the calibration or test methods, (may reference SOP), and any equipment or standards used in the calibration process;
- Describe required equipment maintenance, including frequency; and
- Discuss the documentation and maintenance of the calibration records. (Note: This documentation should be traceable to the equipment being used and should include make, model, and serial number of equipment, and lot number of any standards.)

5.4.12 Inspection/Acceptance of Supplies and Consumables

List any critical supplies or consumables, (e.g., pre-cleaned containers, pre-preserved containers, tubing). Identify the acceptance criteria for such items, (e.g., certificates of cleanliness or testing), as appropriate.

5.4.13 Sample Handling and Custody Requirements

Describe the logistics of sample handling from point of collection through disposal. Include a discussion of handling times, holding times, preservation requirements, (including temperature requirements), sample tracking and management procedures, and any chain-of-custody requirements. Sample preservation, containers, and holding times are summarized in Appendix 2.1 of the *Field Sampling Procedures Manual* (FSPM). State any special handling requirements. For in-situ or remote sensing, the procedures for handling the measurement records should be discussed. Attach any forms to be used, such as sample identification labels and custody forms. Identify what sample containers will be used, where they will be obtained and any special cleaning procedures. The QAPP should also state any project specific requirements for sample archiving and disposal.

Some of this information can be presented in tabular form, as suggested below. Identify and include all field QC samples in the total number of samples.

Sample Matrix	Analyte(s)/ Parameter(s)	Total # Samples	Sample Volume	Type Container	Sample Preservation	Maximum Allowable Holding Time
GW	VOCs with no residual chlorine	20	(3) 40-mL aliquots / sample	40-mL VOC vials w/ Teflon-lined septa screw caps (usually pre-preserved)	HCl or $NaHSO_4$ (added to vial before sample collection) to pH < 2, cool to 4 ± 2°C	Must be shipped to lab within 2 days of collection; received at lab within 1 day of shipment from field; and analyzed within 14 days from collection.

5.4.14 Field Storage and Transport Procedures

The investigator should discuss the field storage and transportation of samples to the laboratory. Samples should be collected, preserved and transported in accordance to the FSPM and any method specific requirements.[27]

5.5 Analytical Laboratory Requirements

5.5.1 Project Compounds and Analytical Summary

Identify the analytical methods to be used; refer to the N.J.A.C. 7:26E-2.1(a) through and including N.J.A.C. 7:26E-2.1 (e) and N.J.A.C. 7:26E Table 2-1. The investigator should consult with the laboratory performing the analyses after DQOs for the project have been defined such that the best methods may be chosen to meet required reporting limits. Fully specify all selected options and describe any modifications from published and/or required methodology. Please note that it is the investigators responsibility to insure that any method used is certified. Modified methods should be attached to the QAPP. If the project requires analytical performance criteria that are different from those specified in the analytical method, this should be highlighted.

It is necessary to choose analytical methods that can meet the DQOs of the project. This may require the use of additional methods even though the compounds of concern are included in one method. As an example, if it required including ethylene dibromide (EDB) and 1, 2-dibrormo-3-chloropropane (DBCP) as part of the analyses and also meeting their GWQSs, then

[27] NJDEP, *Field Sampling Procedures*, August 2005, Section 2, page 28.

the investigator who may have chosen SW-846 Method 8260C would have to use an additional method such as USEPA Method 504.1. Similarly, if certain PAHs are to meet NJ-GWQSs, then in addition to a routine use of Method 8270C, the investigator may have to require the use of Selected Ion Monitoring (SIM) to meet the DQOs.

It is also necessary for the investigator to determine the project-specific compound list. It may be required to use the complete TCL/TAL lists as a starting point per N.J.A.C. 7:26E-2.1(c)1.ii Or, the remediation may be at a phase where only a subset of the TCL/TAL lists needs to and can be analyzed per N.J.A.C. 7:26E-2.1(c)4. In either case, the investigator will provide a list of the project-specific analyte list with applicable regulatory criteria (indicating sensitivity requirements) to the laboratory before the start of the field program. Subsequently, the laboratory should provide a list of the project-specific analyte RLs to demonstrate they can meet the DQOs.

Specific to drinking water analyses, choosing the correct analytical methods and analyte lists for drinking water has proven challenging in the past. In order to eliminate any potential confusion, the following should be applied: Drinking water analyses Specific to drinking water samples, the following applies.

Initial potable water samples shall be analyzed for the following compounds:

- If volatile organic compounds are of concern, samples shall be analyzed for the compounds listed in USEPA Method 524.2 in effect on the date of analysis, incorporated herein by reference, plus TICs;
- If semi-volatile organic compounds are of concern, the samples shall be analyzed for all semi-volatile TCL compounds plus TICs;
- If chlorinated pesticides are the compounds of concern, the samples shall be analyzed for all chlorinated pesticide TCL compounds;
- If aroclors are the compounds of concern, the samples shall be analyzed for all aroclor TCL compounds; and
- If inorganic analytes are of concern, the samples shall be analyzed for all analytes included in the USEPA 200 series methods in effect on the date of analysis, incorporated herein by reference.

Much of this information can be summarized in tabular form as suggested below (see example):

Analyte	Sample Matrix	Applicable Standard or Criteria	Analytical Method	Method Detection Limit	Laboratory Reporting Limit
Trichloroethene	GW	1 µg/L	8260B	0.05 µg/L	0.5 µg/L

5.5.2 Analytical Quality Control

Identify all required laboratory QC checks, their required frequency, the established control limits, and the actions to be taken if the control limits are exceeded. Be sure to include all of the potential QC checks for each type of sample, each matrix, each method, and each analyte, as appropriate, including, for example, the following: Method Blank, Reagent Blank, Storage Blank, Instrument Blank, Laboratory Duplicate, Laboratory Matrix Spike, Matrix Spike Duplicate, Laboratory Control Sample, Surrogates, and Internal Standards.

There are differences in batch versus site-specific QC samples that need to be addressed. Specifically, this is seen with the use of MS/MSDs and LCS/LCSDs. In certain instances (such as inorganics) batch QC samples are the only samples available and inferences must be drawn when analyzing the data generated. However, in certain instances, if one is to get a true benefit from a QC sample, it is necessary for that QC sample to come from “your” site. This is the case with MS/MSDs. If one is to ascertain if the matrix itself is contributing to analytical difficulties or outliers, it is imperative the matrix from the site is used. If not, using MS/MSD results from another site’s sample will provide the investigator with very little additional information

While both pairs are sample fortifications to some degree, there is a significant difference between MS/MSDs and LCS/LCSDs. MS/MSDs are actual samples that are fortified to determine the recovery of compounds of concern as well as variability associates between the pairs. LCS/LCSDs are “blank” samples that are fortified and whose results are an indication of how well the method works to extract/analyze the compounds of concern. LCSs (and possibly LCSDs) should always be included as a QC sample at a frequency defined by a method.

Much of this information can be summarized, for each analytical method, in tabular form as suggested below (see example)

Method/ SOP	DQI	Lab QC Check	Frequency	Acceptance Criteria	Corrective Action
8260B	Accuracy	Surrogates	Every sample	70-130%	Re-analyze or narrate issue

5.5.3 Laboratory Deliverables

The investigator should identify the programmatic requirements for the receipt and submission of laboratory data and document the requirements in the QAPP. The format for the full and reduced laboratory deliverables is also specified in Appendix A of N.J.A.C. 7:26E where it specifically requires the format for laboratory deliverables based on the sample matrix or analyte:

- i. Full laboratory data deliverables shall be submitted for all vapor results (indoor air, ambient, sub-slab, near-slab, and soil gas), potable water and polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans sample results, and for all hexavalent chromium soil sample results;
- ii. Reduced laboratory data deliverables shall be submitted for all other analyses;[28]

It should be noted that deliverable requirements for Extractable Petroleum Hydrocarbons (EPH) and TO-15/NJDEP LLTO-15 are in a full deliverable format but they are specified in the methods. Likewise, the investigator should also document the need for HAZSITE electronic deliverables as required by the Technical Rule[29] and as detailed in the Department's *Electronic Data Interchange Manual*.[30]

Projects where field laboratories are utilized to generate screening data should be addressed specifically by the investigator and the QA/QC documentation identified in the QAPP. It is suggested that the investigator consult with the Department in advance to affirm the appropriate documentation.

[28] N.J.A.C. 7:26E-2.1(a)15.
[29] N.J.A.C. 7:26E-1.6(a)5
[30] NJDEP, *Electronic Data Interchange Manual,* http://www.nj.gov/dep/srp/hazsite/docs.

5.6 Data Review and Usability

The goal of this section is to develop and document procedures for determining whether the results of the project may be used for the intended purpose. Data review and usability are important steps in a project as they apply to both field and lab activities. To accomplish this, all aspects of the project (e.g., field monitoring activities and laboratory analyses) need to be examined to determine if any problems were encountered that might jeopardize the usability of the data. N.J.A.C. 7:26E does not specifically require that laboratory data be validated in-house or by a third party but the reliability of the data be discussed.

Formal data validation may be required in certain instances, e.g., the Department's Publicly Funded projects as a contractual requirement or based on the professional judgment of the investigator. The investigator should consult with the laboratory to insure a data package that is able to be fully validated is provided.

This examination can include both a qualitative review of field documentation as well as a quantitative review of QC results. This section of the QAPP should address various data assessment issues performed by samplers, laboratory, and independent reviewers. It should list the criteria for accepting, rejecting, or qualifying data as discussed in the *Data Usability Assessment and Data Usability Evaluation Guidance Document*.

5.6.1 Data Management

Describe the data management processes used throughout the life of the project. These data include recording and transcribing field notes; logging and retrieval of field instrument data; transmittal of automated field and laboratory results; data transformation and reduction procedures; and data storage, retrieval and security issues throughout the project. Describe the way data handling errors will be assessed (i.e., spot checks for transcription or calculation errors).

5.6.2 Data Verification and Usability

Describe the process that will be used to review the field and analytical data. Discuss what will be done, when it will be done, who will do it, and how it will be done. The SRP Technical

Guidance for DATA QUALITY ASSESSMENT AND DATA USABILITY EVALUATION should be used for this endeavor. Data review should include checks such as the following:

Field	**Lab**
Monitoring performed per SOPs or QAPP	Data entry and transcription errors
Samples properly preserved in the field	Calculation/reduction errors
Field QC samples collected	Holding time limits met
Chain of custody maintained	Lab QC samples analyzed
Deviations from QAPP/SOPs documented	Deviations from QAPP/SOPs documented
	Proper sample storage
	Chain-of-Custody deviations documented

The QAPP should describe the process and criteria used to review the data. This involves evaluating the data according to pre-determined general specifications in a method, SOP, QAPP or contract. Provide examples of any checklists to be used, e.g., the forms suggested in the Data Quality Assessment and Data Usability Guidance Document. Data verification should include, for example:

- Comparing field and/or analytical QC results to SOP or method criteria;
- Checking that soil results are reported on a dry weight basis;
- Rechecking result calculations to ensure all sample preparation and analysis factors are accounted for properly (e.g., dilution factors, correct instrument calibrations used, etc.); and
- Transcription checks from instrument outputs to hardcopy and electronic reporting of the data.

Finally, discuss the data review and usability process. Data usability determinations are the responsibility of the Investigator. The reported data are compared to the DQOs established in the QAPP to determine the impact of any non-conformances on the data quality and usability.

- Describe how errors, if detected, will be documented and addressed;
- Describe the process of evaluating QC samples and how their results will potentially impact data usage; and
- Discuss how any limitations of the data will be reported.

5.6.3 Reconciliation with User Requirements

Discuss how the results obtained from the project will be reconciled with the overall requirements defined by the QAPP. This process of determining the utility of data sets is known as the data usability assessment, and may involve statistical evaluation (tests for outliers, trends, etc.) or may be based on a systematic evaluation of the data compared to QAPP criteria. The question is whether any data quality problems are such that some of the data should not be used.

It is important to remember that this reconciliation process offers the following:

- Includes consideration of both field and laboratory issues;
- Includes the phase of the project (SI, RI, RA);
- Focuses on the findings of the data review;
- Examines the data quality actually achieved;
- Takes into account any problems and/or issues encountered during the process; and
- May involve the averaging or other statistical treatments of data.

When all of the QC criteria are satisfied and no problems are encountered in the field or the laboratory, the data quality assessment can be straightforward. However, problems (sampling-, laboratory-, and matrix-related) do arise, making the final assessment more complicated. The table below lists some typical data verification and validation issues in the left column, along with their potential implications for data usability on the right. The investigator may find these examples helpful when thinking about data quality assessment issues for the project.

Examples of Reconciling Data Quality Problems with Data Quality Goals	
Typical Data Verification and Validation Problems	**Resulting Data Usability Assessment Issues**
Laboratory Control Sample (/Laboratory Control Sample Duplicate) is/are one of the most fundamentally important indicators that a laboratory has the capability to generate acceptable data. If recoveries are below acceptance criteria then is an indication the laboratory has difficulties extracting and/or analyzing the analyte	If the analyte that failed criteria is a contaminant of concern then the generated data may not be usable.
Matrix spike/matrix spike duplicate recoveries are below the acceptance criteria; there were unexpected matrix interferences.	Even with the low recoveries, did the data reveal enough information to be useful for decision-making?

Examples of Reconciling Data Quality Problems with Data Quality Goals	
Typical Data Verification and Validation Problems	**Resulting Data Usability Assessment Issues**
Precision and bias criteria were not achieved. Initial calibration criteria (response factors, correlation coefficient) may not have been appropriate for these analytes.	Does a different method of analysis need to be used to obtain better quality data?
Some maximum allowable holding times have been exceeded. Thus, the results are either biased low or invalid.	Are the measured concentrations sufficiently above the action limits that the potential bias is not significant?
Because sample concentrations were higher than expected, the spike levels were not comparable with the unspiked concentrations, making the results essentially meaningless.	Are measured concentrations so far above the action limits that the low spike recoveries do not adversely affect the ability to confirm that the limits are exceeded?
Conditions in the field required that the sampling procedures be changed significantly.	Is there evidence to support the contention that the samples are still sufficiently representative?

5.7 Assessments

Assessments include various reviews and audits conducted by independent individuals and/or organizations or self-assessments, designed to ensure that the QAPP has been followed throughout the project, to identify shortcomings or deviations, and to initiate corrective actions. If performing self-assessments, a checklist may be a helpful tool. Assessments may also include participation in proficiency testing programs and performance evaluations. Assessments are best when conducted throughout the entire project to identify problems early enough to allow time for corrective actions. It is suggested that the first set of data from the site undergo in-depth review as soon as the data are available to ensure that all QAPP-required QA/QC were properly followed and if problems are uncovered, that these may be corrected in real-time as the project is taking place. If the investigator is requiring assessments, the following should be considered:

- Identify who will perform these assessments, their relationship to the project organization, and the frequency of the proposed assessments;
- Discuss how and to whom the results of assessment will be reported; and
- Identify how response (or corrective) actions will be addressed and documented.

5.7.1 Performance and System Audits

Typically, the QA manager should be responsible for conducting surveillance during the length of the project and for initiating corrective actions as needed. QAPPs for multi-year projects

should be reviewed annually and revised when necessary. Additionally, the QA manager assures that the revisions/updates receive necessary approvals and that these are distributed to the project team as identified above.

5.7.2 Corrective Action Processes

Corrective actions include revising/updating the QAPP and adjusting field and/or laboratory procedures.

5.8 Reporting, Documents and Records

Describe the process used to manage project documents and records. This may include the use of a document control notation system such as that provided below.

Project # or Name _____ Revision No. _____ Date _____ Page _____ of _____

Identify where project data will be located, in what form (include paper, electronic, and database locations, as appropriate), how they can be retrieved at a later date, and the length of time they should be retained (e.g., kept in the project files for one year after completion of the project and then sent to the record depository). Discuss the retention and backup of electronic documents.

Specify the frequency of all reports, the names of the originators and to whom they will be issued. Itemize what information and records should be included in the report(s). This might include the following:

- Sample collection and handling records;
- Analytical logbooks;
- QC sample records;
- Equipment calibration records;
- Assessment reports; and
- Data reconciliation results and associated recommendations.

Appendix A:

References

- CTDEP, *Laboratory Quality Assurance and Quality Control Data Quality Assessment and Data Usability Evaluation Guidance Document*, December 2010.
- Intergovernmental Data Quality Task Force, *Uniform Federal Policy for Quality Assurance Project Plans*, Version 2, EPA-505-B-04-900A, March 2005.
- MADEP, *MCP Representativeness Evaluations and Data Usability Assessments Policy*, WSC-07-350, September 19, 2007.
- MADEP, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data in Support of Response Actions Conducted Under the Massachusetts Contingency Plan (MCP)*, WSC – CAM – VII A, July 1, 2010.
- NJDEP, Draft Data of Known Quality Protocols Technical Guidance, March 2013.
- NJDEP Draft Data Quality Assessment and Data Usability Evaluation Technical Guidance, March 2013.
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- NJDEP, Field Sampling Procedures Manual, 3rd Edition, August 2005, http://www.nj.gov/dep/srp/guidance/#fspm.
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- USEPA, *EPA Requirements for Quality Assurance Project Plans*, EPA QA/R-5, EPA/240/B-01/003, May 2006.
- USEPA, *Guidance on Choosing a Sampling Design for Environmental Data Collection* (QA/G-5S) EPA/240/R-02/005, December 2002.
- USEPA, *Guidance for Data Quality Assessment: Practical Methods for Data Analysis*, EPA G-9, QA00 Version, EPA/600/R-96/084, July 2000.
- USEPA, *Guidance on Environmental Data Verification and Data Validation*, EPA QA/G-8, EPA/240/R-02/004, November 2002.
- USEPA, Guidance *for Quality Assurance Project Plans*, EPA QA/G-5, EPA/240/R-02/009, December 2002.
- USEPA Region II, *Guidance for the Development of Quality Assurance Project Plans for Environmental Monitoring Projects*, April 12, 2004.

Appendix B:

Method Specific DQI Tables (QAPP Worksheets)

Table 1 QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Linear Dynamic Range (LDR)	At a minimum the LDR should be check every 6 months	A minimum of 3 different concentration standards across the ICP range; one should be near the upper limit of the range.	NA	Analyst
Accuracy	A	Initial Calibration	Daily prior to sample analysis	Minimum of a calibration blank plus a standard per manufacturing recommended procedures; RL standard may be included in multi-point calibration curve; linear curve fit with correlation coefficient $\geq$0.995.	Re-optimize instrument and re-calibrate, repeat until successful	Analyst
Accuracy	A	Initial Calibration Verification (ICV)	Daily after calibration	Separate-source from calibration standards; must contain all target analytes ICV: 90-110% recovery	Re-analyze; if still out, Re-calibrate as required by method; suspend all analysis until ICV meets criteria	Analyst
Accuracy	A	Initial Calibration Blanks (ICB)	After ICV	Must be matrix-matched (and same concentration of acid found in standards and samples); ICB: < ± RL	Re-analyze ; if still out, Re-calibrate and reanalyze.	Analyst
Accuracy	A	Continuing Calibration Verification (CCV)	1 of every 10 samples and at end of run	Same source as calibration standards; conc. near mid-point of calibration curve; must contain all target analytes CCV: 90 - 110% recovery	Re-analyze; if still out, Re-calibrate and reanalyze. all samples since last acceptable CCV	Analyst

Table 1 QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Sensitivity	A	Continuing Calibration Blanks (CCB)	After each CCV	Must be matrix-matched (and same conc. of acid found in standards and samples); CCB: < ± RL	Re-calibrate, if still out, Re-calibrate and reanalyze.	Analyst
Accuracy & Sensitivity (Contamination)	A	Method Blank (MB)	1 per digestion batch - not to exceed 20 field samples	Must be digested with samples using same preparation method and amount of acids; MB: < RL	Re-analyze; if still out redigest & re-analyze all samples unless all detected results > 10x MB level	Analyst
Accuracy	A	Interference Check Standards (ICSA and ICSAB)	Daily after calibration	ICSA & ICSB: 80-120% recovery ICSA: non-spiked analytes ≤ 2x RL	Re-analyze; if still out; adjust interference and background correction, and/or linear ranges as needed & recalibrate and reanalyze all field samples since last complaint ICSA & ICSB	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample (LCS)	1 per digestion batch - not to exceed 20 field samples	Must contain all target analytes and be matrix-specific; Aq. LCS: 80-120% recovery; Soil/Sediment/solid LCS: vendor control limits (95% confidence limits)	Re-analyze, if still out; redigest & Re-analyze LCS & all field samples in batch	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if an MS/MSD was not performed	Must be performed on a Site field sample. For soil and aqueous samples: Results ≥ 5xRL, RPD ≤ 20% aqueous, 35% solids; Results < 5xRL: absolute difference between results ≤ RL.	Re-analyze, qualify data	Analyst/Data Reviewer

Table 1 QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	S & A	Matrix Spike (MS) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample; MS: 75-125% recovery; professional judgment if sample concentration > 4x spike level	Evaluate LCS, unspiked sample and qualify data	Analyst/Data Reviewer
Precision	S & A	Matrix Spike Duplicate (MSD) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample. For soil and aqueous samples: Results ≥ 5xRL, RPD ≤ 20% aqueous, 35% solids; Results < 5xRL: absolute difference between results ≤ RL.	Lab narrates outlier; qualify data	Analyst/Data Reviewer
Accuracy	A	Post digestion spike	1 per ≤ 20 field samples if less than acceptable accuracy and precision data are generated	Should be performed if MS/MSD recoveries were unacceptable: 80-120% recovery	Lab narrates outlier; qualify data	Analyst/Data Reviewer
Accuracy	A	Serial Dilution	1 per ≤ 20 field samples if less than acceptable accuracy and precision data are generated	Perform 5x dilution on same sample used for MS. % Difference ≤ 10% for results >50x IDL (which will most likely equate to 10X RL).	Lab narrates outlier qualify data	Analyst/Data Reviewer
Accuracy	A	Quantitation	Not applicable	RL ≤ results ≤ linear calibration range on a sample-specific basis. Report all Aq. results in µg/L or mg/L and all Soil/Sediment results in mg/Kg on a dry-weight basis.	Perform dilution to bring analyte within linear range; report from diluted analysis	Analyst/Data Reviewer
Overall Precision & Represent-ativeness	S & A	Field Duplicate Sample [Site-specific QC]	1 per 20 field samples	Aq.: Results ≥ 5xRL: RPD ≤ 30%; Results < 5xRL: professional judgment; Soil/Sediment: Results ≥ 5xRL: RPD ≤ 50%; Results < 5xRL: professional judgment	Potential data usability issue; indication of sample heterogeneity	Data Reviewer

Table 1 QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy (preservation)	S & A	Sample preservation	every field sample	Aq.: Total Metals: HNO_3 pH < 2; (Dissolved Metals: filter on site or at the lab then HNO_3 pH < 2 but cannot be used for regulatory compliance) Soil/Sediment: collect unpreserved per SW-846 Chapter 3 Table 3-2	Lab narrates outlier. Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	Minimum $\geq$ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Accuracy/ Sensitivity	S & A	Holding Time (HT)	every field sample	For aqueous and soil samples six months. If Soil/Sediment samples are frozen, HT arrested and HT begins when thawed. Samples can be maintained frozen for 1 year from collection.	Lab narrates outlier. Potential data usability issue	Data Reviewer
Accuracy & Sensitivity (Contamination)	S & A	Equipment Rinsate Blank (EB)	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method	Aqueous EB: < RL Soil/Sediment EB <RL on solid equivalent basis	Aqueous Potential data usability issue, Soil/Sediment: non-matrix matched aqueous EB use professional judgment	Data Reviewer
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:

1. This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance and meet the data quality needs of the Department.

2. Method References = USEPA SW-846 Method 6010B (*Inductively Coupled Plasma-Mass Spectrometry*, December 1996 and February 2007) and (*Quality Assurance and Quality Control Requirements and Performance Standards for SW846 Method 6010B, Trace Metals by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP)*).

Table 2 QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Linear Dynamic Range (LDR)	At a minimum the LDR should be check every 6 months	A minimum of 3 different concentration standards across the ICP range one should be near the upper limit of the range.	NA	Analyst
Accuracy	A	Initial Calibration	Daily prior to sample analysis	Minimum of a calibration blank plus a standard per manufacturing recommended procedures; RL standard may be included in multi-point calibration curve; linear curve fit with correlation coefficient $\geq$0.998.	Re-optimize instrument and re-calibrate, repeat until successful	Analyst
Accuracy	A	Initial Calibration Verification (ICV)	Daily after calibration	Separate-source from calibration standards; must contain all target analytes ICV: 90-110% recovery	Re-analyze; if still out, Re-calibrate as required by method; suspend all analysis until ICV meets criteria	Analyst
Sensitivity	A	Low Level Initial Calibration Verification	For method 6010C, LLICV must be analyzed at the beginning of the run before any samples and at the end of the run.	Same source as calibration standards; must contain all target analytes at the RL 70-130% recovery	Re-analyze. If still out, Re-calibrate/re-analyze. Suspend all analyses until LLICV meets criteria unless all results > 10x RL	Analyst
Accuracy	A	Initial Calibration Blanks (ICB)	After ICV	Must be matrix-matched (and same conc. of acid found in standards and samples); ICB: < ± RL	Re-analyze ; if still out, Re-calibrate and reanalyze.	Analyst

Table 2 QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Continuing Calibration Verification (CCV)	1 every 10 samples and at end of run	Same source as calibration standards; conc. near mid-point of calibration curve; must contain all target analytes CCV: 90 - 110% recovery	Re-analyze; if still out, Re-calibrate and reanalyze. All samples since last acceptable CCV	Analyst
Sensitivity	A	Low Level Continuing Calibration Verification	For method 6010C, LLCCV must be analyzed at the beginning of the run before any samples and at the end of the run.	Same source as initial calibration standards; must contain all target analytes at the RL 70-130% recovery	Re-analyze. If still out, Re-calibrate/re-analyze. Suspend all analyses until LLICV meets criteria unless all results > 10x RL	Analyst
Sensitivity	A	Continuing Calibration Blanks (CCB)	After each CCV	Must be matrix-matched (and same conc. of acid found in standards and samples); CCB: < ± RL	Re-analyze ; if still out, Re-calibrate and reanalyze.	Analyst
Accuracy & Sensitivity (Contamination)	A	Method Blank (MB)	1 per digestion batch - not to exceed 20 field samples	Must be digested with samples using same preparation method and amount of acids; MB: < RL	Re-analyze; if still out redigest & re-analyze all samples unless all detected results > 10x MB level	Analyst

Table 2 QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Interference Check Standards (ICSA and ICSAB)	Daily after calibration	ICSA & ICSB: 80-120% recovery ICSA: non-spiked analytes ≤ 2x RL	Re-analyze; if still out, adjust interference and background correction, and/or linear ranges as needed & recalibrate and reanalyze all field samples since last complaint ICSA & ICSB	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample (LCS)	1 per digestion batch - not to exceed 20 field samples	Must contain all target analytes and be matrix-specific; Aq. LCS: 80-120% recovery; Soil/Sediment/sol-id LCS: vendor control limits (95% confidence limits)	Re-analyze, if still out' redigest & Re-analyze LCS & all field samples in batch	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if an MS/MSD was not performed	Must be performed on a Site field sample. For soil and aqueous samples: Results ≥ 5xRL, RPD ≤ 20% aqueous, 35% solids; Results < 5xRL: absolute difference between results ≤ RL.	Re-analyze, qualify data	Analyst/Data Reviewer
Accuracy	S & A	Matrix Spike (MS) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample; MS: 75-125% recovery; professional judgment if sample concentration > 4x spike level	Evaluate LCS, unspiked sample and qualify data	Analyst/Data Reviewer
Precision	S & A	Matrix Spike Duplicate (MSD) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample. For soil and aqueous samples: Results ≥ 5xRL, RPD ≤ 20% aqueous, 35% solids; Results < 5xRL: absolute difference between results ≤ RL.	Lab narrates outlier; qualify data	Analyst/Data Reviewer

Table 2 QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Post digestion spike	1 per ≤ 20 field samples if less than acceptable accuracy and precision data are generated	Should be performed if MS/MSD recoveries were unacceptable: 80-120% recovery	Lab narrates outlier; qualify data	Analyst/Data Reviewer
Accuracy	A	Serial Dilution	1 per ≤ 20 field samples if less than acceptable accuracy and precision data are generated	Perform 5x dilution on same sample used for MS % Difference ≤ 10% for results >10x RL.	Lab narrates outlier qualify data	Analyst/Data Reviewer
Accuracy	A	Quantitation	Not applicable	RL ≤ results ≤ linear calibration range on a sample-specific basis. Report all Aq. results in µg/L or mg/L and all Soil/Sediment results in mg/Kg on a dry-weight basis.	Perform dilution to bring analyte within linear range; report from diluted analysis	Analyst/Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Sample [Site-specific QC]	1 per 20 field samples	Aq.: Results ≥ 5xRL: RPD ≤ 30%; Results < 5xRL: professional judgment; Soil/Sediment: Results ≥ 5xRL: RPD ≤ 50%; Results < 5xRL: professional judgment	Potential data usability issue; indication of sample heterogeneity	Data Reviewer
Accuracy (preservation)	S & A	Sample preservation	every field sample	Aq.: Total Metals: HNO_3 pH < 2; (Dissolved Metals: filter on site or at the lab then HNO_3 pH < 2 but cannot be used for regulatory compliance) Soil/Sediment: collect unpreserved per SW-846 Chapter 3 Table 3-2	Lab narrates outlier. Potential data usability issue	Data Reviewer

Table 2 QAPP Worksheet All Matrices – Metals (ICP) USEPA SW-846 6010C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	Minimum $\geq$ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Accuracy/ Sensitivity	S & A	Holding Time (HT)	every field sample	For aqueous and soil samples six months. If Soil/Sediment samples are frozen, HT arrested and HT begins when thawed. Samples can be maintained frozen for 1 year from collection.	Lab narrates outlier. Potential data usability issue	Data Reviewer
Accuracy & Sensitivity (Contamination)	S & A	Equipment Rinsate Blank (EB)	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method	Aqueous EB: < RL Soil/Sediment EB <RL on solid equivalent basis	Aqueous Potential data usability issue, Soil/Sediment: non-matrix matched aqueous EB use professional judgment	Data Reviewer
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:
1. This table was prepared by NJDEP, January 2012 to be compliant with EPA Region 2 guidance and meet the data quality needs of the Department.

2. Method References = USEPA SW-846 Method 6010C (*Inductively Coupled Plasma-Mass Spectrometry*, Revision 3 February 2007).

Table 3 QAPP Worksheet All Matrices – Metals (ICP-MS) USEPA SW-846 6020
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Tuning	Daily prior to calibration	Manufacturer's Recommendation & SW-846 Method 6020A Tuning Criteria	Re-optimize instrument and re-tune, suspend all analysis until tuning is successful	Analyst
Accuracy	A	Initial Calibration	Daily following tuning prior to sample analysis	Minimum of a calibration blank plus a standard per manufacturing recommended procedures	Re-optimize instrument and re-calibrate, repeat until successful	Analyst
Accuracy	A	Initial Calibration Verification (ICV)	Daily after calibration	Separate-source from calibration standards and at the midpoint of the linear range. Must contain all target analytes ICV: 90-110% recovery.	Re-analyze; if still out, Re-calibrate as required by method; suspend all analysis until ICV meets criteria	Analyst
Accuracy	A	Continuing Calibration Verification (CCV)	1 every 10 samples and after the last sample	CCV: 90 - 110% recovery	Re-analyze; if still out, Re-calibrate and reanalyze. All samples since last acceptable CCV	Analyst
Sensitivity	A	Initial and Continuing Calibration Blanks (ICB and CCB)	After ICV and after each CCV	Must be matrix-matched (and same conc. of acid found in standards and samples); ICB/CCB: < ± RL	Re-calibrate, if still out, Re-calibrate and reanalyze.	Analyst
Accuracy & Sensitivity (Contamination)	A	Method Blank (MB)	1 per digestion batch - not to exceed 20 field samples	Must be digested with samples using same preparation method and amount of acids; MB: < RL	Re-analyze; if still out redigest & re-analyze all samples unless all detected results > 10x MB level	Analyst

Table 3 QAPP Worksheet All Matrices – Metals (ICP-MS) USEPA SW-846 6020
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Interference Check Standards (ICSA and ICSAB)	Daily after calibration	ICSA & ICSAB: 80-120% recovery	This is a method requirement of SW-846 6020. If the ICSA or ICSAB are out of specifications, it indicates that the instrument is not running properly. Retune and reanalyze the associated samples.	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample (LCS)	1 per digestion batch - not to exceed 20 field samples	Must contain all target analytes and be matrix-specific; Aq. LCS: 80-120% recovery; Soil/Sediment/solid LCS: vendor control limits (95% confidence limits)	Re-analyze if still out re-analyze & redigest with all samples in a batch unless site specific MS is in control Lab narrates outlier.	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if an MS/MSD was not performed	Must be performed on a Site field sample. Results ≥ 5xRL, RPD ≤ 20 aqueous, 35% solids%; Results < 5xRL: absolute difference between results ≤ RL.	Qualify data	Analyst/Data Reviewer
Accuracy	S & A	Matrix Spike (MS) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample; & must contain all target analytes; MS: 75-125% recovery; professional judgment if sample concentration > 4x spike level	Lab narrates outlier Evaluate LCS, unspiked sample and qualify data	Analyst/Data Reviewer

Table 3 QAPP Worksheet All Matrices – Metals (ICP-MS) USEPA SW-846 6020
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Precision	S & A	Matrix Spike Duplicate (MSD) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample. Results ≥ 5xRL, RPD ≤ 20% aqueous, 35% solids; Results < 5xRL: absolute difference between results ≤ RL.	Lab narrates outlier qualify data	Analyst/Data Reviewer
Accuracy	A	Post digestion spike	Not applicable	Should be performed if MS/MSD recoveries were unacceptable: 80-120% recovery	Lab narrates outlier qualify data	Analyst/Data Reviewer
Accuracy	A	Serial Dilution	1 per ≤ 20 field samples if less than acceptable accuracy and precision data are generated	Perform 5x dilution on same sample used for MS % Difference ≤ 10% for results >50x RL.	Lab narrates outlier qualify data	Analyst/Data Reviewer
Accuracy	A	Internal Standards (IS)	Every field sample and QC sample	For all analysis the intensity of any IS must fall between 30 and 120% of the IS in the initial calibration standard.	The sample must be diluted fivefold and reanalyzed with the appropriate amounts of IS.	Analyst/Data Reviewer
Accuracy	A	Quantitation	Not applicable	RL ≤ results ≤ upper calibration range on a sample-specific basis. Report all Aq. results in µg/L or mg/L and all Soil/Sediment results in mg/Kg on a dry-weight basis.	Perform dilution to bring analyte within linear range; report from diluted analysis	Analyst/Data Reviewer
Overall Precision & Representativeness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	Aq.: Results ≥ 5xRL: RPD ≤ 30%; Results < 5xRL: professional judgment Soil/Sediment: Results ≥ 5xRL: RPD ≤ 50%; Results < 5xRL: professional judgment	Potential data usability issue; indication of sample heterogeneity	Data Reviewer

Table 3 QAPP Worksheet All Matrices – Metals (ICP-MS) USEPA SW-846 6020
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy (preservation)	S & A	Sample preservation	every field sample	Aq.: Total Metals: HNO_3 pH < 2; (Dissolved Metals: filter on site or at the lab then HNO_3 pH < 2 but cannot be used for regulatory purposes) Soil/Sediment: collect unpreserved per SW-846 Chapter 3 Table 3-2	Lab narrates outlier. Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S & A	Holding Time (HT)	every field sample	For aqueous and soil samples six months. If Soil/Sediment samples are frozen, HT arrested and HT begins when thawed. Samples can be maintained frozen for 1 year from collection.	Lab narrates outlier. Potential data usability issue	Data Reviewer
Accuracy & Sensitivity (Contamination)	S & A	Equipment Rinsate Blank (EB)	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method	Aqueous EB: < RL Soil/Sediment EB <RL on solid equivalent basis	Aqueous Potential data usability issue, Soil/Sediment: non-matrix matched aqueous EB use professional judgment	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	Minimum $\geq$ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:

1. This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance, and meet the data quality needs of the Department.

2. Method References = USEPA SW-846 Method 6020 (*Inductively Coupled Plasma-Mass Spectrometry*, September 1994).

Table 4 QAPP Worksheet All Matrices – Metals (ICP-MS) USEPA SW-846 6020A
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Tuning	Daily prior to calibration	Manufacturer's Recommendation & SW-846 Method 6020A Tuning Criteria	Re-optimize instrument and re-tune, suspend all analysis until tuning is successful	Analyst
Accuracy	A	Initial Calibration	Daily following tuning prior to sample analysis	Minimum of 3 calibration levels plus blank; RL and Linear Range (LR) standards may be included in calibration levels; minimum of 3 integrations for each QC and field sample; linear curve fit r ≤ 0.998; if not including RL and LR standards then LLCV and HLCV check standards need to be analyzed (see below).	Re-optimize instrument and re-calibrate, repeat until successful	Analyst
Accuracy	A	Initial Calibration Verification (ICV)	Daily after calibration	Separate-source from calibration standards; Must contain all target analytes at the mid-range of the calibration curve ICV: 90-110% recovery	Re-analyze; if still out, Re-calibrate as required by method; suspend all analysis until ICV meets criteria	Analyst
Sensitivity	A	Low Level Initial Calibration Check Verification (LLICV)	Daily standard at the RL or lower limit of quantitation	Same source as calibration standards; must contain all target analytes at level of the RL LLCV: 70-130% recovery	Re-analyze. If still out, Recalibrate/ reanalyze unless all results > 10x RL	Analyst
Accuracy	A	Continuing Calibration Verification (CCV)	1 every 10 samples and at end of run	Same source as initial calibration standards; Must contain all target analytes at the mid-range of the calibration curve CCV: 90 - 110% recovery	Re-analyze; if still out, Re-calibrate and reanalyze. all samples since last acceptable CCV	Analyst

Table 4 QAPP Worksheet All Matrices – Metals (ICP-MS) USEPA SW-846 6020A
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Sensitivity	A	Initial and Continuing Calibration Blanks (ICB and CCB)	After ICV and after each CCV	Must be matrix-matched (and same conc. of acid found in standards and samples); ICB/CCB: < ± RL	Re-analyze ; if still out, Re-calibrate and reanalyze	Analyst
Sensitivity	A	Low Level Continuing Calibration Verification Standard (LLCCV)	Daily only if RL standard not included in initial calibration	Same source as initial calibration standards; must contain all target analytes at level of the RL LLCV: 70-130% recovery	Re-analyze. If still out, Recalibrate/ reanalyze unless all results > 10x RL	Analyst
Accuracy	A	Linear Dynamic Range (LDR)	At a minimum the LDR should be checked every 6 months	A minimum of 3 different concentration standards across the ICP range. One should be near the upper limit of the range.	NA	Analyst
Accuracy	A	Interference Check Standards (ICSA and ICSAB)	Daily after calibration	ICSA & ICSAB: 80-120% recovery	This is a method requirement of SW-846 6020. If the ICSA or ICSAB are out of specifications, it indicates that the instrument is not running properly. Retune and reanalyze the associated samples.	Analyst/Data Reviewer
Accuracy & Sensitivity (Contamination)	A	Method Blank (MB)	1 per digestion batch - not to exceed 20 field samples	Must be digested with samples using same preparation method and amount of acids; MB: < RL	Re-analyze; if still out redigest & re-analyze all samples unless all detected results > 10x MB level.	Analyst

Table 4 QAPP Worksheet All Matrices – Metals (ICP-MS) USEPA SW-846 6020A
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Laboratory Control Sample (LCS)	1 per digestion batch - not to exceed 20 field samples	Must contain all target analytes and be matrix-specific; Aq. LCS: 80-120% recovery; Soil/Sediment/ solid LCS: vendor control limits (95% confidence limits)	Re-analyze, if still out' redigest & Re-analyze LCS & all field samples in batch unless site specific MS is in control Lab narrates outlier.	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if an MS/MSD was not performed	Must be performed on a Site field sample. Results ≥ 5xRL, RPD ≤ 20% aqueous, 35% solids; Results < 5xRL: absolute difference between results ≤ RL.	Qualify data	Analyst/Data Reviewer
Accuracy	S & A	Matrix Spike (MS) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample; & must contain all target analytes; MS: 75-125% recovery; professional judgment if sample concentration > 4x spike level	Lab narrates outlier Evaluate LCS, unspiked sample and qualify data	Analyst/Data Reviewer
Precision	S & A	Matrix Spike Duplicate (MSD) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample. Results ≥ 5xRL, RPD ≤ 20% aqueous, 35% solids; Results < 5xRL: absolute difference between results ≤ RL.	Lab narrates outlier qualify data	Analyst/Data Reviewer
Accuracy	A	Post digestion spike	Not applicable	Should be performed if MS/MSD recoveries were unacceptable: 80-120% recovery	Lab narrates outlier qualify data	Analyst/Data Reviewer
Accuracy	A	Serial Dilution	1 per ≤ 20 field samples if less than acceptable accuracy and precision data are generated	Perform 5x dilution on same sample used for MS. Serial Dilution % Difference ≤ 10% for results >50x RL.	Lab narrates outlier qualify data	Analyst/Data Reviewer

Table 4 QAPP Worksheet All Matrices – Metals (ICP-MS) USEPA SW-846 6020A
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Internal Standards (IS)	Every field sample and QC sample	70% ≥ IS for QC samples ≤ 130% 70% ≥ IS for field samples ≤ 130% relative intensity % of IS compared to the intensity of the IS in the ICAL.	The sample must be diluted fivefold and reanalyzed with the appropriate amounts of IS.	Analyst/Data Reviewer
Overall Precision & Representative ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	Aq.: Results ≥ 5xRL: RPD ≤ 30%; Results < 5xRL: professional judgment Soil/Sediment: Results ≥ 5xRL: RPD ≤ 50%; Results < 5xRL: professional judgment	Potential data usability issue; indication of sample heterogeneity	Data Reviewer
Accuracy	A	Quantitation	Not applicable	RL ≤ results ≤ upper calibration range on a sample-specific basis. Report all Aq. results in µg/L or mg/L and all Soil/Sediment results in mg/Kg on a dry-weight basis.	Perform dilution to bring analyte within calibration range; report from diluted analysis	Analyst/Data Reviewer
Accuracy (preservation)	S & A	Sample preservation	Every field sample	Aq.: Total Metals: HNO_3 pH < 2; (Dissolved Metals: filter on site or at the lab then HNO_3 pH < 2 but cannot be used for regulatory compliance) Soil/Sediment: collect unpreserved per SW-846 Chapter 3 Table 3-2	Lab narrates outlier Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	For aqueous and soil samples six months. If Soil/Sediment samples are frozen, HT arrested and HT begins when thawed. Samples can be maintained frozen for 1 year from collection.	Lab narrates outlier. Potential data usability issue	Data Reviewer

Table 4 QAPP Worksheet All Matrices – Metals (ICP-MS) USEPA SW-846 6020A
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy & Sensitivity (Contamination)	S & A	Equipment Rinsate Blank (EB)	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method	Aqueous EB: < RL Soil/Sediment EB <RL on solid equivalent basis	Aqueous Potential data usability issue, Soil/Sediment: non-matrix matched aqueous EB use professional judgment	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	Minimum $\geq$ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:
1. This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance, and meet the data quality needs of the Department.

2. Method References = USEPA SW-846 Method 6020A (*Inductively Coupled Plasma-Mass Spectrometry*, February 2007).

Table 5 QAPP Worksheet All Matrices - Pesticides USEPA SW-846 8081A & B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	A	Method Blank	1 per extraction batch of up to 20 field samples (matrix-specific)	All Target compounds < RL, surrogates in criteria	Reanalyze and, if necessary, re-extract. Report non-conformance in narrative; compounds present in blank should be flagged "B" in samples, if detected.	Analyst
Accuracy	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field samples	Must contain all single-component target analytes, performed on Site field sample; 30-150% recovery for all compounds.	Evaluate LCS, unspiked sample, reanalyze, if necessary, and qualify data and narrate issue	Analyst/Data Reviewer
Precision	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field samples	Must contain all single-component target analytes, performed on Site field sample; 30-150% recovery for all compounds; RPD ≤ 30% for solids and RPD ≤ 20% for waters	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample (LCS)	1 per extraction batch of up to 20 samples	Must contain all single-component target analytes, concentration should be the same as MS if appropriate, be matrix-matched, 40-140% recovery for all target analytes.	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if an MS/MSD was not performed	Must be performed on a site sample, RPD ≤ 30% for solids and RPD ≤ 20% for waters for results > 2x RL	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Surrogates	Every sample including QC	Minimum of 2 (recommend TCMX and DCB); 30-150% recovery on both GC columns	Reanalyze, if necessary, qualify data	Analyst/Data Reviewer

Table 5 QAPP Worksheet All Matrices - Pesticides USEPA SW-846 8081A & B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Internal Standards (IS) (optional)	Every sample including QC (optional)	Minimum of 1 IS , Areas 50-200% of CCV; RTs ± 30 sec from ICAL	Reanalyze and qualify data	Analyst/Data Reviewer
Accuracy	A	Endrin/DDT Breakdown	Before samples are analyzed and at the beginning of each 12 hour shift	% Breakdown ≤ 15% based on peak areas	Perform instrument maintenance; reanalyze until acceptable	Analyst
Accuracy	A	Initial Calibration (ICAL)	Initially and when CCV fails	Minimum 5-levels for single-component analytes and single-level for multi-component analytes using peak height or peak area; must contain all targets and lowest level ≤ RL; %RSD ≤ 20% or "r" ≥ 0.99 for all compounds; regression analysis, if used, must not be forced through the origin	Recalibrate as required by method; analysis cannot proceed without a valid initial calibration	Analyst
Accuracy	A	Continuing Calibration Verification(CCV)	Prior to samples, every 12 hours or every 20 samples, whichever is more frequent, and at the end of the analytical sequence	Concentration level near mid-point of ICAL curve containing all single-component target compounds; %D ≤ 20% and analytes fall within expected retention time windows; Multi-component analytes must be verified within 12 hours of being detected in a sample	Recalibrate as required by method; note outliers in narrative.	Analyst

Table 5 QAPP Worksheet All Matrices - Pesticides USEPA SW-846 8081A & B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Quantitation	Every sample	RL ≤ results ≤ upper calibration range on a sample-specific basis; average response factors or curve-statistics generated from the ICAL must be used for quantitation and peak height or peak area, as used for ICAL, must be used for sample. Report the highest concentration from the two GC columns and results reported between the MDL and RL qualified "J"	Perform dilution to bring analyte within linear range, qualify data	Analyst/Data Reviewer
Precision	A	Quantitation	Every sample	RPD or %D ≤ 40% between two dissimilar GC Columns	Qualify result and narrate issue except if %D > 100%, then analyze sample at a secondary dilution and qualify data as necessary.	Analyst and Data Reviewer
Sensitivity	A	Reporting of Non-Detects	Every sample	Reported at the sample-specific RL which must be ≤ PRL	Potential data usability issue	Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	RPD ≤ 30% for waters or RPD ≤ 50% for solids w/results > 2x RL; Professional judgment for results < 2xRL	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	Cool to ≤ 6º C; allow for < 2º C if samples intact	Potential data usability issue	Data Reviewer

Table 5 QAPP Worksheet All Matrices - Pesticides USEPA SW-846 8081A & B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Aqueous samples extracted within 7 days of collection; extract analyzed within 40 days of extraction. Soil/Sediment samples extracted within 14 days of collection; extract analyzed within 40 days of extraction. If Soil/Sediment samples are frozen, HT arrested and extraction HT continues when thawed. Solid samples can be maintained frozen for 1 year from collection.	Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S	Equipment Blank [Site-specific QC]	Not Required if using dedicated sampling equipment. If performing decon, collect 1 EB per 20 field samples collected by the same method	Target analytes < RL	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:

1. This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance, and meet the data quality needs of the Department.

2. Pesticide Compound analyses via USEPA SW-846 Method 8081A&B (*Quality Assurance and Quality Control Requirements for SW-846 Method 8081A and 8081B Chlorinated Pesticides by Gas Chromatography [GC])*.

Table 6 QAPP Worksheet All Matrices (combined) - PCB Aroclors USEPA SW-846 8082 and 8082A
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	A	Method Blank	1 per extraction batch of up to 20 field samples (matrix-specific)	All Target compounds < RL, surrogates in criteria	Reanalyze and, if necessary, re-extract. Report non-conformance in narrative; compounds present in blank should be flagged "B" in samples, if detected.	Analyst
Accuracy	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field samples	Must contain Aroclors 1016 and 1260, performed on Site field sample, 40-140% recovery	Evaluate LCS, unspiked sample, reanalyze, if necessary, and qualify data and narrate issue	Analyst/Data Reviewer
Precision	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field samples	Must contain Aroclors 1016 and 1260, performed on Site field sample; 40-140% recovery; RPD ≤ 30% for solids and RPD ≤ 20% for waters	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample (LCS)	1 per extraction batch of up to 20 samples	Must contain Aroclors 1016 and 1260, be matrix-matched, 40-140% recovery	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if an MS/MSD was not performed	Must be performed on a Site samples;, RPD ≤ 30% for solids and RPD ≤ 20% for waters for results > 2x RL	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer

Table 6 QAPP Worksheet All Matrices (combined) - PCB Aroclors USEPA SW-846 8082 and 8082A Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Surrogates	Every sample including QC	Minimum of 2 (recommend TCMX and DCB); 30-150% recovery on both GC columns	Reanalyze, if necessary, qualify data	Analyst/Data Reviewer
Accuracy	A	Initial Calibration (ICAL)	Initially and when CCV fails	Minimum 5-levels for Aroclors 1016 and 1260 and single-level at mid-point concentration for other Aroclors; 3-5 peaks of each Aroclor evaluated using peak height or peak area; lowest level ≤ RL; other Aroclors may be warranted for 5 point calibration if PCB contamination is known. %RSD ≤ 20% or "r" ≥ 0.99 for Aroclors 1016 and 1260; regression analysis, if used, must not be forced through the origin.	Recalibrate as required by method; analysis cannot proceed without a valid initial calibration	Analyst
Accuracy	A	Continuing Calibration Verification (CCV)	Prior to samples, every 12 hours or every 20 samples, whichever is more frequent, and at the end of the analytical sequence	Concentration level near mid-point of ICAL curve containing Aroclors 1016 and 1260; %D ≤ ± 20% and analytes fall within expected retention time windows; Aroclors other than 1016 and 1260 must be verified within 12 hours of being detected in a sample (unless I.S. quant technique is used)	Recalibrate as required by method; note outliers in narrative.	Analyst

Table 6 QAPP Worksheet All Matrices (combined) - PCB Aroclors USEPA SW-846 8082 and 8082A Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Quantitation	Every sample	RL ≤ results ≤ upper calibration range on a sample-specific basis; average response factors or curve-statistics generated from the ICAL must be used for quantitation and peak height or peak area, as used for ICAL, must be used for sample. Report the highest concentration from the two GC columns and results reported between the MDL and RL qualified "J"	Perform dilution to bring analyte within linear range, qualify data	Analyst/Data Reviewer
Precision	A	Quantitation	Every sample	RPD or %D ≤ 40% between two dissimilar GC Columns	Qualify result and narrate issue except if %D > 100% then analyze sample at a secondary dilution and qualify data as necessary.	Analyst and Data Reviewer
Sensitivity	A	Reporting of Non-Detects	Every sample	Reported at the sample-specific RL which must be ≤ PRL	Potential data usability issue	Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	RPD ≤ 30% for waters or RPD ≤ 50% for solids w/results > 2x RL; Professional judgment for results < 2xRL	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	Cool to ≤ 6º C; allow for < 2º C if samples intact	Potential data usability issue	Data Reviewer

Table 6 QAPP Worksheet All Matrices (combined) - PCB Aroclors USEPA SW-846 8082 and 8082A Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Aqueous samples extracted within 7 days of collection; extract analyzed within 40 days of extraction. Soil/Sediment samples extracted within 14 days of collection; extract analyzed within 40 days of extraction. If Soil/Sediment samples are frozen, HT arrested and extraction HT continues when thawed. Samples can be maintained frozen for 1 year from collection.	Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S	Equipment Blank [Site-specific QC]	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method.	Target analytes < RL	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:

1. This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance, and meet the data quality needs of the Department

2. PCB Aroclor Compound analysis via USEPA SW-846 Method 8082 and 8082A (*Quality Assurance and Quality Control Requirements for SW-846, Polychlorinated Biphenyls (PCBs) by Gas Chromatography [GC]).*

Table 7 QAPP Worksheet All Matrices – Total Cyanide SW-846 9010C, 9013. 9014, and 9012B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Initial Calibration	Daily prior to sample analysis (unless daily CCV passes 90-110 % recover)	Minimum of 5 calibration levels plus blank; low level standard at level of RL; linear regression with a correlation coefficient r $\geq$ 0.995	Perform instrument maintenance and re-calibrate, repeat until successful	Analyst
Accuracy	A	Initial Calibration/ Initial Calibration Verification (ICV)	Daily after calibration	Separate-source from calibration standards; ICV: 85-115% recovery	Re-analyze; if still out, Re-calibrate as required by method; suspend all analysis until ICV meets criteria	Analyst
Accuracy	A	Continuing Calibration Verification (CCV)	1 every 20 samples and at the end of run	Same source as calibration standards; conc. near mid-point of calibration curve; CCV: 85 - 115% recovery	Re-analyze and, if still out, Re-calibrate and Re-analyze all samples since last acceptable CCV	Analyst
Sensitivity	A	Initial and Continuing Calibration Blanks (ICB and CCB)	After ICV and after each CCV	Must be matrix-matched (and same conc. of acid found in standards and samples); ICB/CCB: < ± RL	Re-analyze; if still out, Re-calibrate, reanalyze.	Analyst
Sensitivity	A	Low Level Calibration Check Standard	Daily only if RL standard not included in initial calibration	Low Level Check Standard: 70-130% recovery	Recalibrate/re-analyze unless all results > 10x RL	Analyst
Accuracy & Sensitivity (Contamination)	A	Method Blank (MB)	1 per analytical batch - not to exceed 20 field samples	Must be distilled/extracted with samples using same preparation method; MB: < RL	Re-analyze; if still out redistill & re-analyze all samples unless all detected results > 10x MB level	Analyst

Table 7 QAPP Worksheet All Matrices – Total Cyanide SW-846 9010C, 9013. 9014, and 9012B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Laboratory Control Sample (LCS)	1 per digestion batch - not to exceed 20 field samples	Must be matrix-matched; aqueous LCS: 80-120% recovery; Soil/Sediment LCS within vendor control limits (95% confidence)	Re-analyze, if still out; redigest (soil/sed.) & Re-analyze LCS & all field samples in batch	Analyst/ Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if an MS/MSD was not performed	Must be performed on a Site field sample. Aq.: Results RPD ≤ 20%; Soil/Sediment: Results, RPD ≤ 35%;	Re-analyze, qualify data	Analyst/ Data Reviewer
Accuracy	S & A	Matrix Spike (MS) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample; MS: 75-125% recovery; professional judgment if sample concentration > 4x spike level	Evaluate LCS, unspiked sample, re-analyze, if necessary, and qualify data	Analyst/ Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	Aq.: Results ≥ 5xRL: RPD ≤ 30%; Results < 5xRL: professional judgment; Soil/Sediment: Results ≥ 5xRL: RPD ≤ 50%; Results < 5xRL: professional judgment	Potential data usability issue; indication of sample heterogeneity	Data Reviewer
Accuracy	A	Quantitation	Not applicable	RL ≤ results ≤ upper calibration range on a sample-specific basis. Report all Aq. results in µg/L or mg/L and all Soil/Sediment results in mg/Kg on a dry-weight basis.	Perform dilution to bring analyte within linear range, report from diluted analysis	Analyst/ Data Reviewer
Accuracy (preservation)	S & A	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	≤ 6º C per SW-846 Chapter 3 Table 3-2 but allow for Soil/Sediment: < 2º C if freezing samples are intact	Lab narrates outlier; Potential data usability issue	Data Reviewer
Accuracy (preservation)	S & A	Sample Preservation	Every field sample	Aqueous samples are preserved by adding sodium hydroxide until pH is ≥12 at time of sampling. Preserved samples can be stored up to 14 days.	Lab narrates outlier; potential data usability issue	Data Reviewer

Table 7 QAPP Worksheet All Matrices – Total Cyanide SW-846 9010C, 9013. 9014, and 9012B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Aqueous and Soil/Sediment: HT = 14 days from collection to analysis If Soil/Sediment samples are frozen, HT arrested and HT begins when thawed. Samples can be maintained frozen for 1 year from collection.	Lab narrates outlier; potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	Minimum $\geq$ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Accuracy & Sensitivity (Contamination)	S & A	Equipment Rinsate Blank (EB)	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method	Aqueous EB: < RL Soil/Sediment EB <RL on solid equivalent basis	Aqueous Potential data usability issue, Soil/Sediment: non=matrix matched aqueous EB use professional judgment	Data Reviewer
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:
1. This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance and meet the data quality needs of the Department.
2. Method References: USEPA SW-846 Method 9010C (*Total and Amenable Cyanide: Distillation, November, 2004*); USEPA SW-846 Method 9013 (*Cyanide Extraction Procedure for Solids and Oils, July 1992);* USEPA SW-846 Method 9014 (Titrimetric and manual spectrophotometric Determinative Methods for *Cyanide, December 1996) and* USEPA SW-846 Method 9012B (Total and Amenable Cyanide *(Automated Colorimetric with offline Distillation), November 2004 Revision 2).*

Table 8 QAPP Worksheet All Matrices – Hexavalent Chromium SW-846 846 7196A and 7199
Measurement Performance Criteria & QC Samples Table– Hexavalent Chromium

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Initial Calibration	Daily prior to sample analysis	Minimum of 3 calibration levels plus blank; low-level standard at level of RL linear regression with a correlation coefficient r ≥ 0..995	Re-optimize instrument and re-calibrate, repeat until successful	Analyst
Accuracy	A	Initial Calibration Verification (ICV)	Daily after calibration	Separate-source from calibration standards; ICV: 90-110% recovery	Re-analyze ; if still out, Re-calibrate as required by method; suspend all analysis until ICV meets criteria	Analyst
Accuracy	A	Continuing Calibration Verification (CCV)	1 every 10 samples and at end of run	Concentration level near midpoint of calibration curve; same source from ICV; CCV: 90-110% recovery	Re-analyze if still out, Re-calibrate and reanalyze all samples since last acceptable CCV	Analyst
Sensitivity	A	Initial and Continuing Calibration Blanks (ICB and CCB)	After ICV and after each CCV	Must be matrix-matched (conc. of solution to match standards and samples); ICB/CCB: < ± RL	Re-analyze ; if still out, Re-calibrate and reanalyze.	Analyst
Accuracy & Sensitivity (Contamination)	A	Method Blank (MB)	1 per digestion batch - not to exceed 20 field samples	Must be prepared/digested with samples in batch; MB: < RL	Re-analyze; if still out redigest & re-analyze all samples unless all detected results > 10x MB level	Analyst

Table 8 QAPP Worksheet All Matrices – Hexavalent Chromium SW-846 846 7196A and 7199
Measurement Performance Criteria & QC Samples Table– Hexavalent Chromium

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Laboratory Control Sample (LCS)	1 per digestion batch - not to exceed 20 field samples	Must be matrix-matched; aqueous LCS: 80-120% recovery; Soil/Sediment/ solid LCS: NIST Standard Reference Material (SRM) 2701; within control limits	Re-analyze; if still out redigest & re-analyze all samples in the batch qualify data	Analyst/Data Reviewer
Precision	A	Sample Matrix Duplicate (DUP)	1 per ≤ 20 field samples	Must be performed on a Site field sample. Aqueous/ Soil/Sediment: RPD ≤ 20%; a control limit of ± RL if original or duplicate is < 4 times the RL.	Lab narrates outlier; Qualify data	Analyst/Data Reviewer
Accuracy	S & A	Matrix Spike Aqueous samples	1 per ≤ 20 aqueous field samples	Must be performed on a Site field sample; MS: 75-125% recovery; professional judgment if sample concentration > 4x spike level	Re-analyze[1], Lab narrates outliers; possible usability issue.	Analyst/Data Reviewer
Accuracy	S & A	Matrix Spike (MS) soluble [Site-specific QC]	1 per ≤ 20 soil/sediment field samples	Must be performed on a Site field sample; MS: 75-125% recovery; professional judgment if sample concentration > 4x spike level	Re-analyze[2]; Lab narrates outliers; possible usability issue.	Analyst/Data Reviewer
Accuracy	S & A	Matrix Spike (MS) insoluble [Site-specific QC]	1 per ≤ 20 soil/sediment field samples	Must be performed on a Site field sample; MS: 75-125% recovery; professional judgment if sample concentration > 4x spike level	Re-analyze[2], Lab narrates outliers; possible usability issue.	Analyst/Data Reviewer
Accuracy	A	Quantitation	Not applicable	RL ≤ results ≤ upper calibration range on a sample-specific basis. Report all Aq. results in µg/L or mg/L and all Soil/Sediment results in mg/Kg on a dry-weight basis.	Perform dilution to bring analyte within linear range; report from diluted analysis	Analyst/Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	Aq.: Results ≥ 5xRL: RPD ≤ 30%; Results < 5xRL: professional judgment; Soil/Sediment: Results ≥ 5xRL: RPD ≤ 50%; Results < 5xRL: professional judgment	Potential data usability issue; indication of sample heterogeneity	Data Reviewer

Table 8 QAPP Worksheet All Matrices – Hexavalent Chromium SW-846 846 7196A and 7199 Measurement Performance Criteria & QC Samples Table– Hexavalent Chromium

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy (preservation)	S & A	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	≤ 6º C per SW-846 Chapter 3 Table 3-2 but allow for Soil/Sediment: < 2º C if freezing samples are intact	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S & A	Sample preservation	every field sample	Aqueous /Soil/Sediment: collect unpreserved and keep cold (see above)	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	≥ 90% Overall Minimum ≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Accuracy/ Sensitivity	S & A	Holding Time (HT)	every field sample	Soil/Sediment: HT = 30 days from collection to digestion and 7 days after digestion to analysis. For aqueous samples HT = 24 hours from collection.	Potential data usability issue	Data Reviewer
Accuracy & Representative-ness	S & A	Preparation of samples and additional measurements	Soil/Sediment samples must be digested prior to analysis. See SW-846 Method 3060A for alkaline digestion. Additional measurements of pH and Eh are required for soil/sediment samples.	Aqueous samples are not digested. Sample preparation: follow procedures in Method 7196A or Method 7199 for Soil/Sediment: Alkaline digestion required as per Method 3060A. pH of alkaline digestates must be maintained at method requirements. For 7196A it is 7.5 ±0.5; 7199 9.0±0.5 Then follow procedures for analysis by either method 7196A or 7199. pH & Eh (oxidation reduction potential) measurements give indication of reducing or oxidizing conditions in field sample to assist in interpretation of soluble and insoluble MS results. See Method 3060A for further details.	Re-digest if sample pH is outside the QC limits.	Analyst/Data Reviewer

Table 8 QAPP Worksheet All Matrices – Hexavalent Chromium SW-846 846 7196A and 7199
Measurement Performance Criteria & QC Samples Table– Hexavalent Chromium

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:
1. This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance and meet the data quality needs of the Department.

2. Method References = USEPA SW-846 Method 7196A *Hexavalent Chromium Colorimetric* and USEPA SW-846 Method 7199 (*Hexavalent Chromium by Ion Chromatography).*

[1] After reanalysis, if recovery is <30% SRP would reject associated non-detect data.

[2] After reanalysis if recovery, is 50-74% or 126-150% SRP would qualify associated data. If recoveries are<50% or >150% for both insoluble AND soluble spikes, SRP would reject associated data; otherwise would qualify associated data if one of the spikes was outside the <50% or >150% limits.

Table 9 QAPP Worksheet All Matrices - Mercury SW-846 Method 7471B and 7470A
Measurement Performance Criteria & QC Samples Table– Mercury

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Initial Calibration	Daily prior to sample analysis	Minimum of 5 calibration levels plus blank; low level standard at level of RL; linear regression with a correlation coefficient r $\geq$ 0.995	Re-optimize instrument and re-calibrate, repeat until successful	Analyst
Accuracy	A	Initial Calibration/ Initial Calibration Verification (ICV)	Daily after calibration	Separate-source from calibration standards; ICV: 90-110% recovery	Re-analyze; if still out, Re-calibrate as required by method; suspend all analysis until ICV meets criteria	Analyst
Accuracy	A	Continuing Calibration Verification (CCV)	1 of every 10 samples and at end of run	Same source as calibration standards; conc. near mid-point of calibration curve; CCV: –80 - 120% recovery	Re-analyze and, if still out, Re-calibrate and Re-analyze all samples since last acceptable CCV	Analyst
Sensitivity	A	Initial and Continuing Calibration Blanks (ICB and CCB)	After ICV and after each CCV	Must be matrix-matched (and same conc. of acid found in standards and samples); CCB: < ± RL	Re-analyze; if still out, Re-calibrate, reanalyze.	Analyst
Sensitivity	A	Low Level Calibration Check Standard	Daily only if RL standard is not included in initial calibration	Low Level Check Standard: 70-130% recovery	Recalibrate/reanalyze unless all results > 10x RL	Analyst
Accuracy & Sensitivity (Contamination)	A	Method Blank (MB)	1 per digestion batch - not to exceed 20 field samples	Must be digested with samples using same preparation method and amount of acids; MB: < RL	Re-analyze; if still out redigest & re-analyze all samples unless all detected results > 10x MB level	Analyst

Table 9 QAPP Worksheet All Matrices - Mercury SW-846 Method 7471B and 7470A Measurement Performance Criteria & QC Samples Table– Mercury

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Laboratory Control Sample (LCS)	1 per digestion batch - not to exceed 20 field samples	Must be matrix-specific; aqueous LCS: 80-120% recovery; Soil/Sediment LCS vendor control limits (95% confidence)	Re-analyze, if still out; redigest (soil/sed.) & Re-analyze LCS & all field samples in batch	Analyst/ Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if an MS/MSD was not performed	Must be performed on a Site field sample. Aq.: Results RPD ≤ 20%; Soil/Sediment: Results, RPD ≤ 35%;	Re-analyze, qualify data	Analyst/ Data Reviewer
Accuracy	S & A	Matrix Spike (MS) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample; MS: 75-125% recovery; professional judgment if sample concentration > 4x spike level	Evaluate LCS, unspiked sample, re-analyze, if necessary, and qualify data	Analyst/ Data Reviewer
Precision	S & A	Matrix Spike Duplicate (MSD) [Site-specific QC]	1 per ≤ 20 field samples	Must be performed on a Site field sample Aq.: Results ≥ 5xRL, RPD ≤ 20%; Results < 5xRL: absolute difference between results ≤ RL. Soil/Sediment: Results ≥ 5xRL, RPD ≤ 35%; Results < 5xRL: absolute difference between results ≤ 2xRL	Lab narrates outlier; Re-analyze, qualify data	Analyst/ Data Reviewer
Accuracy	A	Quantitation	Not applicable	RL ≤ results ≤ upper calibration range on a sample-specific basis. Report all Aq. results in µg/L or mg/L and all Soil/Sediment results in mg/Kg on a dry-weight basis.	Perform dilution to bring analyte within linear range, report from diluted analysis	Analyst/ Data Reviewer
Overall Precision & Representative ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	Aq.: Results ≥ 5xRL: RPD ≤ 30%; Results < 5xRL: professional judgment; Soil/Sediment: Results ≥ 5xRL: RPD ≤ 50%; Results < 5xRL: professional judgment	Potential data usability issue; indication of sample heterogeneity	Data Reviewer

Table 9 QAPP Worksheet All Matrices - Mercury SW-846 Method 7471B and 7470A Measurement Performance Criteria & QC Samples Table– Mercury

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy (preservation)	S & A	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	Soil/Sediment: ≤ 6º C per SW-846 Chapter 3 Table 3-2 but allow for < 2º C if freezing samples are intact	Lab narrates outlier; Potential data usability issue	Data Reviewer
Accuracy (preservation)	S & A	Sample preservation	Every field sample	Aq.: Total Metals: HNO_3 pH < 2; (Dissolved Metals: filter on site or at the lab then HNO_3 pH < 2 but cannot be used for regulatory compliance) Soil/Sediment: collect unpreserved and keep cold (see above)	Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Aqueous and Soil/Sediment: HT = 28 days from collection to analysis If Soil/Sediment samples are frozen, HT arrested and HT begins when thawed. Samples can be maintained frozen for 1 year from collection.	Lab narrates outlier; Potential data usability issue	Data Reviewer
Accuracy & Sensitivity (Contamination)	S & A	Equipment Rinsate Blank (EB)	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method	Aqueous EB: < RL Soil/Sediment EB <RL on solid equivalent basis	Aqueous potential data usability issue, Soil/Sediment: non-matrix matched aqueous EB use professional judgment	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	Minimum ≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator

Table 9 QAPP Worksheet All Matrices - Mercury SW-846 Method 7471B and 7470A
Measurement Performance Criteria & QC Samples Table– Mercury

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:
1. This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance and meet the data quality needs of the Department.

2. Method References = USEPA SW-846 Method 7471B (*Mercury in Solid or Semisolid Waste by Manual Cold Vapor Technique*, February 2007) and USEPA SW-846 Method 7470A (*Mercury in Aqueous Samples by Manual Cold Vapor Technique*, September 1994).

Table 10 QAPP Worksheet Aqueous – VOAs USEPA 524.2
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	A	Laboratory Reagent Blank (LRB) or Method Blank	1 per batch of up to 20 field samples (matrix-specific)	Target analytes must be < RL, Except for common laboratory contaminates (acetone, methylene chloride and MEK) which must be < 5x RL, surrogates in criteria	Reanalyze. Report non-conformance in narrative; compounds present in blank should be flagged "B" in samples, if detected.	Analyst
Accuracy	A	Laboratory Fortified Matrix (LFM) [Site-specific QC]	Performed at least quarterly and if criteria in Section 9.4 of 524.2 are not met.	Must contain all target analytes, performed on Site field sample, 70-130%; difficult analytes ** must exhibit percent recoveries between 40-160%.	Evaluate LFM, unspiked sample, and qualify data and narrate issue	Analyst/Data Reviewer
Accuracy	A	Quality Control Sample (QCS)	Performed at least quarterly	Must contain all target analytes, performed on Site field sample, 70-130%; difficult analytes ** must exhibit percent recoveries between 40-160%.	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Laboratory Fortified Blank (LFB)	1 per batch of up to 20 samples	Must contain all target analytes, spiked into a blank matrix, acceptable recoveries of 70-130%; difficult analytes ** must exhibit percent recoveries between 40-160%.	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples performed	Must be performed on a Site field sample. RPDs ≤ 20%	Qualify data and narrate issues of non-conformance	Analyst/Data Reviewer

Table 10 QAPP Worksheet Aqueous – VOAs USEPA 524.2
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Surrogates	Every sample including QC	2 surrogates 1,2-dichlorobenzene-d_4 and Bromofluorobenzene (BFB); area recoveries 70-130% of CCAL or 50-150% of ICAL	Reanalyze, if necessary, qualify data	Analyst/Data Reviewer
Accuracy	A	Internal Standards (IS)	Every sample including QC	Fluorobenzene; Areas 70-130% of CCV or 50-150% of ICAL	Reanalyze, if necessary, qualify data	Analyst/Data Reviewer
Accuracy	A	BFB Tune	Every 12 hours	Method tune criteria based on criteria in Table 3 of USEPA-524.2	Perform instrument maintenance; reanalyze until acceptable	Analyst
Accuracy	A	Initial Calibration (ICAL)	Initially and when CCV fails	Minimum 3-standards; must contain all targets and lowest standard ≤ RL; average RRF ≥ 0.05;%RSD ≤ 20% for all compounds	Recalibrate as required by method; analysis cannot proceed without a valid initial calibration	Analyst
Accuracy	A	Continuing Calibration Verification (CCV)	1 every 12 hours prior to analysis of samples	Concentration level near mid-point of ICAL curve containing all target compounds; %D ≤ 30%	Recalibrate as required by method; note outliers in narrative.	Analyst
Accuracy	A	Quantitation	Every sample	RL ≤results ≤ upper calibration range on a sample-specific basis; IS must be used; and average response factors or curve-statistics generated from the ICAL must be used for quantitation. Results reported between the MDL and RL qualified "J"	Perform dilution to bring analyte within linear range, qualify data	Analyst/Data Reviewer

Table 10 QAPP Worksheet Aqueous – VOAs USEPA 524.2
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Sensitivity	A	Reporting of Non-Detects	Every sample	Reported at the sample-specific RL which must be ≤ PRL	Potential data usability issue	Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	RPD ≤ 30% for waters or RPD ≤ 50% for solids w/results > 2x RL; Professional judgment for results < 2xRL	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	4º C ± 2º C; allow for < 2º C if samples intact sample preservation per USEPA 524.2 Section 8.2.	Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Analyses within 14 days of collection (24 hours if unpreserved); sample preservation per Section 8.0 of Method 524.2	Potential data usability issue	Data Reviewer

Table 10 QAPP Worksheet Aqueous – VOAs USEPA 524.2
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	S	Equipment Blank [Site-specific QC]	Not required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method	Target analytes < RL	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:

1. This table was prepared by NJDEP April 2014; to be compliant with EPA Region 2 guidance, and meet the data quality needs of the Department.

2. Volatile Organic Compound analyses via USEPA 524.2 (*Measurement of Purgeable Organic Compounds in water by Capillary Column Gas Chromatography/Mass Spectroscopy [GC/MS]).*

** Potentially "difficult" analytes include: acetone, methyl ethyl ketone, 4-methyl-2-pentanone, 2-hexanone, dichlorodifluoromethane, bromomethane, chloromethane, and 1, 4-dioxane.

Table 11 QAPP Worksheet All Matrices – VOAs by USEPA SW-846 8260B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	BFB Tune	Every 12 hours	Method tune criteria based on criteria in Table 4 of USEPA-SW846 Method 8260B	Perform instrument maintenance; reanalyze until acceptable	Analyst
Accuracy	A	Initial Calibration (ICAL)	Initially and when CCV fails	Minimum 5-standards; must contain all targets and lowest standard ≤ RL; Full Scan: RF for SPCCs Section 7.3.5.4; %RSD ≤ 15% for all compounds except CCC's which must be ≤30% RSD or "r" ≥ 0.99; SIM: %RSD ≤ 20% or "r" ≥ 0.99 for all compounds; regression analysis, if used, must not be forced through the origin	Recalibrate as required by method; analysis cannot proceed without a valid initial calibration	Analyst
Accuracy/ Sensitivity	A	Method Blank	1 per preparatory batch of up to 20 field samples (matrix-specific)	Targets analytes must be < RL except for common laboratory contaminates (acetone, methylene chloride and MEK) which must be < 5x RL, surrogates in criteria	Reanalyze and, if necessary, re-extract. Report non-conformance in narrative; compounds present in blank should be flagged "B" in samples, if detected.	Analyst
Accuracy	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field samples per matrix	Must contain all target analytes, performed on Site field sample, % recovery 70-130% except for difficult analytes** which must exhibit % recovery between 40-160%	Evaluate LCS, unspiked sample, reanalyze, if necessary, and qualify data and narrate issue	Analyst/Data Reviewer

Table 11 QAPP Worksheet All Matrices – VOAs by USEPA SW-846 8260B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Precision	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field samples per matrix	Must contain all target analytes, performed on Site field sample, recovery criteria same as MS; RPDs ≤ 20% for waters and ≤ 30% for solids	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample (LCS)	1 per preparatory batch of up to 20 samples	Must contain all target analytes, be matrix-matched; % Recovery 70-130% except for difficult analytes ** must exhibit percent recoveries between 40-160%.	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if a MS/MSD was not performed	Must be performed on a Site field sample. RPDs ≤ 20% for waters and ≤ 30% for solids for results > 2x RL	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Surrogates	Every sample including QC	Minimum of 3 surrogates at retention times across GC run for all matrices; surrogates must be between 70-130% for all compounds.	Reanalyze, if necessary, qualify data	Analyst/Data Reviewer
Accuracy	A	Internal Standards (IS)	3 per sample including QC	Minimum of 3 IS , Areas 50-200% of the most recent CCV; RTs ±30 sec. from midpoint ICAL standard	Reanalyze and qualify data	Analyst/Data Reviewer
Accuracy	A	Continuing Calibration Verification (CCV)	1 every 12 hours prior to analysis of samples	Concentration level near mid-point of ICAL curve containing all target compounds; *Full Scan and SIM*: min RRF criteria met; %D or % Drift ≤ 20% for all compounds	Recalibrate as required by method; note outliers in narrative.	Analyst

Table 11 QAPP Worksheet All Matrices – VOAs by USEPA SW-846 8260B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Quantitation	Every sample	RL ≤results ≤ upper calibration range on a sample-specific basis; IS must be used; and average response factors or curve-statistics generated from the ICAL must be used for quantitation. Results reported between the MDL and RL qualified "J"	Perform dilution to bring analyte within linear range, qualify data	Analyst/Data Reviewer
Sensitivity	A	Reporting of Non-Detects	Every sample	Reported at the sample-specific RL which must be ≤ PRL	Potential data usability issue	Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	RPD ≤ 30% for waters or RPD ≤ 50% for solids w/results > 2x RL; Professional judgment for results < 2xRL	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	≤ 6º C; allow for < 2º C if samples intact sample preservation per SW-846 Chapter 4 Table 4-1	Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Analyses within 14 days of collection (7 days if unpreserved). Aqueous samples adjust pH to < 2 with HCL or per SW-846 Table 4-1 preservatives.	Potential data usability issue	Data Reviewer

Table 11 QAPP Worksheet All Matrices – VOAs by USEPA SW-846 8260B
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	S	Equipment Blank [Site-specific QC]	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method.	Target analytes < RL	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:
1. This table was prepared by NJDEP, April 2014, to be compliant with EPA Region 2 guidance and meets the data quality needs of the Department.

2. Volatile Organic Compound analyses via USEPA SW-846 Method 8260B (*Quality Assurance and Quality Control Requirements for SW-846 Method 8260B* or 8260C *Volatile Organic Compounds by Gas Chromatography/Mass Spectroscopy [GC/MS]).*

** Potentially "difficult" analytes include: acetone, methyl ethyl ketone, 4-methyl-2-pentanone, 2-hexanone, dichlorodifluoromethane, bromomethane, chloromethane, carbon disulfide, 1,2-Dibromo-3-chloropropane, chloroethane, naphthalene, trichlorofluoromethane, and 1, 4-dioxane.

Table 12 QAPP Worksheet All Matrices – VOAs by USEPA SW-846 8260C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	BFB Tune	Every 12 hours	Method tune criteria based on criteria in Table 3 of USEPA-SW846 Method 8260C	Perform instrument maintenance; reanalyze until acceptable	Analyst
Accuracy	A	Initial Calibration (ICAL)	Initially and when CCV fails	Minimum 5-standards; must contain all targets and lowest standard ≤ RL; Full Scan: %RSD ≤ 20% for all compounds and minimum RF found in Table 4 or "r" ≥ 0.99; SIM: %RSD ≤ 20% and minimum RF found in Table 4 or "r" ≥ 0.99 for all compounds;	Recalibrate as required by method; analysis cannot proceed without a valid initial calibration	Analyst
Accuracy/ Sensitivity	A	Method Blank	1 per preparatory batch of up to 20 field samples (matrix-specific)	Targets analytes must be < RL except for common laboratory contaminates (acetone, methylene chloride and MEK) which must be < 5x RL, surrogates in criteria	Reanalyze and, if necessary, re-extract. Report non-conformance in narrative; compounds present in blank should be flagged "B" in samples, if detected.	Analyst
Accuracy	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field samples per matrix	Must contain all target analytes, performed on Site field sample, % recovery 70-130% except for difficult analytes** which must exhibit % recovery between 40-160%	Evaluate LCS, unspiked sample, reanalyze, if necessary, and qualify data and narrate issue	Analyst/Data Reviewer

Table 12 QAPP Worksheet All Matrices – VOAs by USEPA SW-846 8260C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Precision	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field samples per matrix	Must contain all target analytes, performed on Site field sample, recovery criteria same as MS; RPDs ≤ 20% for waters and ≤ 30% for solids	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample (LCS)	1 per preparatory batch of up to 20 samples	Must contain all target analytes, be matrix-matched; % Recovery 70-130% except for difficult analytes ** must exhibit percent recoveries between 40-160%.	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if a MS/MSD was not performed	Must be performed on a Site field sample. RPDs ≤ 20% for waters and ≤ 30% for solids for results > 2x RL	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Surrogates	Every sample including QC	Minimum of 3 surrogates at retention times across GC run for all matrices; surrogates must be between 70-130% for all compounds.	Reanalyze, if necessary, qualify data	Analyst/Data Reviewer
Accuracy	A	Internal Standards (IS)	3 per sample including QC	Minimum of 3 IS , Areas 50-200% of the most recent midpoint CCV standard; RTs ± 30 sec. from midpoint ICAL standard	Reanalyze and qualify data	Analyst/Data Reviewer
Accuracy	A	Continuing Calibration Verification (CCV)	1 every 12 hour prior to analysis of samples	Concentration level near mid-point of ICAL curve containing all target compounds; *Full Scan and SIM*: min RRF criteria met; %D or % Drift ≤ 20% for all compounds	Recalibrate as required by method; note outliers in narrative.	Analyst

Table 12 QAPP Worksheet All Matrices – VOAs by USEPA SW-846 8260C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Quantitation	Every sample	RL ≤results ≤ upper calibration range on a sample-specific basis; IS must be used; and average response factors or curve-statistics generated from the ICAL must be used for quantitation. Results reported between the MDL and RL qualified "J"	Perform dilution to bring analyte within linear range, qualify data	Analyst/Data Reviewer
Sensitivity	A	Reporting of Non-Detects	Every sample	Reported at the sample-specific RL which must be ≤ PRL	Potential data usability issue	Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	RPD ≤ 30% for waters or RPD ≤ 50% for solids w/results > 2x RL; Professional judgment for results < 2xRL	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	≤ 6º C; allow for < 2º C if samples intact sample preservation per SW-846 Chapter 4 Table 4-1	Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Analyses within 14 days of collection (7 days if unpreserved). Aqueous samples adjust pH to < 2 with HCL or per SW-846 Table 4-1 preservatives.	Potential data usability issue	Data Reviewer

Table 12 QAPP Worksheet All Matrices – VOAs by USEPA SW-846 8260C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	S	Equipment Blank [Site-specific QC]	Not required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method	Target analytes < RL	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:
1. This table was prepared by NJDEP, April 2014, to be compliant with EPA Region 2 guidance and meets the data quality needs of the Department.

2. Volatile Organic Compound analyses via USEPA SW-846 Method 8260C (*Quality Assurance and Quality Control Requirements for SW-846 Method 8260C* or 8260C *Volatile Organic Compounds by Gas Chromatography/Mass Spectroscopy [GC/MS]).*

** Potentially "difficult" analytes include: acetone, methyl ethyl ketone, 4-methyl-2-pentanone, 2-hexanone, dichlorodifluoromethane, bromomethane, chloromethane, carbon disulfide, 1,2-Dibromo-3-chloropropane, chloroethane, naphthalene, trichlorofluoromethane, and 1, 4-dioxane.

Table 13 QAPP Worksheet All Matrices – - SVOAs by USEPA SW-846 8270C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	DFTPP Tune	Every 12 hours	Method tune criteria based on criteria in Table 3 of USEPA-SW846 Method 8270C	Perform instrument maintenance; reanalyze until acceptable	Analyst
Accuracy	A	Initial Calibration (ICAL)	Initially and when CCAL fails	Minimum 5-standards; must contain all targets and lowest standard ≤ RL; *Full Scan*: RF ≥ 0.05 for SPCCs; %RSD ≤ 15% for all compounds except CCCs which must be ≤20% RSD or "r" ≥ 0.99; *SIM*: %RSD ≤ 20% or "r" ≥ 0.99 for all compounds	Recalibrate as required by method; analysis cannot proceed without a valid initial calibration	Analyst
Accuracy/ Sensitivity	A	Method Blank	1 per extraction batch of up to 20 field samples	Must be matrix matched; Phthalates < 5xRL; All other Targets < RL, surrogates in criteria	Reanalyze and, if necessary, re-extract. Report non-conformance in narrative; compounds present in blank should be flagged "B" in samples, if detected.	Analyst
Accuracy	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field per matrix samples	Must contain all target analytes, performed on Site field sample, % recovery 70-130% except for difficult analytes** which must exhibit % recovery between 20-160%	Evaluate LCS, unspiked sample, reanalyze, if necessary, and qualify data and narrate issue	Analyst/Data Reviewer

Table 13 QAPP Worksheet All Matrices – - SVOAs by USEPA SW-846 8270C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Precision	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field per matrix samples	Must contain all target analytes, performed on Site field sample, % recovery criteria same as MS. RPDs ≤ 20% for waters and ≤ 30% for solids	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample (LCS)	1 per extraction batch of up to 20 samples	Must contain all target analytes, be matrix-matched; % Recovery 70-130% except for difficult analytes ** must exhibit percent recoveries between 20-160%.	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if an MS/MSD was not performed	Must be performed on a Site field sample. RPD ≤ 20% for waters and ≤ 30% for solids for results > 2x RL	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Surrogates	Every sample including QC	Minimum of 3 base-neutral and 3 acid surrogates at RTs across GC run; for solids matrices must be between 30-130% for all compounds; for water matrices 30-130% for BN surrogates and 15-110% for Acid surrogates	Reanalyze, if necessary, qualify data	Analyst/Data Reviewer
Accuracy	A	Internal Standards (IS)	6 per sample including QC	Minimum of 6 IS , Areas 50-200% of the most recent CCV standard; RTs ± 30 sec. from midpoint ICAL standard	Reanalyze and qualify data	Analyst/Data Reviewer
Accuracy	A	Continuing Calibration Verification (CCV)	1 every 12 hour prior to analysis of samples	Concentration level near mid-point of ICAL curve containing all target compounds; *Full Scan*: %D or %Drift ≤ 20% for CCCs and ≤ 30% for all other compounds *SIM*: %D or %Drift ≤ 30%	Recalibrate as required by method; note outliers in narrative.	Analyst

Table 13 QAPP Worksheet All Matrices – - SVOAs by USEPA SW-846 8270C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Quantitation	Every sample	RL ≤results ≤ upper calibration range on a sample-specific basis; IS must be used; and average response factors or curve-statistics generated from the ICAL must be used for quantitation. Results reported between the MDL and RL qualified "J"	Perform dilution to bring analyte within linear range, qualify data	Analyst/Data Reviewer
Sensitivity	A	Reporting of Non-Detects	Every sample	Reported at the sample-specific RL which must be ≤ PRL	Potential data usability issue	Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	RPD ≤ 30% for waters or RPD ≤ 50% for solids w/results > 2x RL; Professional judgment for results < 2xRL	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	≤ 6º C; allow for < 2º C if samples intact sample preservation per SW-846 Chapter 4 Table 4-1	Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Aqueous samples extracted within 7 days of collection; extract analyzed within 40 days of extraction. Soil/Sediment samples extracted within 14 days of collection; extract analyzed within 40 days of extraction. If Soil/Sediment samples are frozen, HT arrested and extraction HT continues when thawed. Solid samples can be maintained frozen for 1 year from collection.	Potential data usability issue	Data Reviewer

Table 13 QAPP Worksheet All Matrices – - SVOAs by USEPA SW-846 8270C
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	S	Equipment Blank [Site-specific QC]	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, Collect 1 EB per 20 field samples collected by the same method	Target analytes < RL	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:

1. This table was prepared by NJDEP, January 2011 to be compliant with EPA Region 2 guidance and meet the data quality needs of the Department.
2. Semivolatile Organic Compound analyses via USEPA SW-846 Method 8270D (*Quality Assurance and Quality Control Requirements for SW-846 Method* 8270D *Semivolatile Organic Compounds by Gas Chromatography/Mass Spectroscopy [GC/MS]).* 8270D:

** Potentially "difficult" analytes include: benzenthiol, benzoic Acid, 2,4-dintrophenol, 3&4 – methylphenol, 4-nitrophenol, pentachlorophenol, phenol, aniline, aramite, A,A-dimethylphenethylamine, benzidine, benzaldehyde, benzyl Alcohol, caprolactam, chlorobenzilate, 3,3'-Dimethylbenzidine, 1,4-Dioxane, 7,12-Dimethylbenz(a)anthracene, Diallate, Dibenz(a,j)acridine, Diphenylamine, Disulfoton, p-(dimethylamine)azobenzene, decane, famphur, hexachlorocyclopentadiene, hexachloroethane, hexachlorophene, hexachloropropene, kepone, 4,4'-methylenebis(2-chloroaniline), methapyrilene, methyl methanesulfonate, methyl parathion, n-nitrosodimethylamine, 4-nitroquinoline-1-oxide, 2-Picoline, parathion, pentachloroethane, pentachlorobenzene, pentachloronitrobenzene, phorate, pronamide, pyridine, p-phenylenediamine, o-tricresyl phosphate and Tetraethyl. Please note that many of the surrogates may fall outside of the 15 – 110% range 2-Fluorophenol, Phenol-d5, 2,4,6-tribromophenol and terphenyl-d14.

Table 14 QAPP Worksheet All Matrices – - SVOAs by USEPA SW-846 8270D
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	DFTPP Tune	Every 12 hours	Method tune criteria based on criteria in Table 3 of USEPA-SW846 Method 8270D	Perform instrument maintenance; reanalyze until acceptable	Analyst
Accuracy	A	Initial Calibration (ICAL)	Initially and when CCAL fails	Minimum 5-standards; must contain all targets and lowest standard ≤ RL; *Full Scan*: RF see Table 4 for minimum RF; %RSD ≤ 20% for all compounds or "r" ≥ 0.99; *SIM*: %RSD ≤ 20% or "r" ≥ 0.99 for all compounds	Recalibrate as required by method; analysis cannot proceed without a valid initial calibration	Analyst
Accuracy/ Sensitivity	A	Method Blank	1 per extraction batch of up to 20 field samples	Must be matrix matched; Phthalates < 5xRL; All other Targets < RL, surrogates in criteria	Reanalyze and, if necessary, re-extract. Report non-conformance in narrative; compounds present in blank should be flagged "B" in samples, if detected.	Analyst
Accuracy	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field per matrix samples	Must contain all target analytes, performed on Site field sample, % recovery 70-130% except for difficult analytes** which must exhibit % recovery between 20-160%	Evaluate LCS, unspiked sample, reanalyze, if necessary, and qualify data and Narrate issue	Analyst/Data Reviewer

Table 14 QAPP Worksheet All Matrices – - SVOAs by USEPA SW-846 8270D
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Precision	A	Matrix Spike/ Matrix Spike Duplicate [Site-specific QC]	1 per ≤ 20 field per matrix samples	Must contain all target analytes, performed on Site field sample, % recovery criteria same as MS. RPDs ≤ 20% for waters and ≤ 30% for solids	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample (LCS)	1 per extraction batch of up to 20 samples	Must contain all target analytes, be matrix-matched; % Recovery 70-130% except for difficult analytes ** must exhibit percent recoveries between 20-160%.	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	1 per ≤ 20 field samples if an MS/MSD was not performed	Must be performed on a Site field sample. RPD ≤ 20% for waters and ≤ 30% for solids for results > 2x RL	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Surrogates	Every sample including QC	Minimum of 3 base-neutral and 3 acid surrogates at RTs across GC run; for solids Matrices must be between 30-130% for all compounds; for water matrices 30-130% for BN surrogates and 15-110% for acid surrogates	Reanalyze, if necessary, qualify data	Analyst/Data Reviewer
Accuracy	A	Internal Standards (IS)	6 per sample including QC	Minimum of 6 IS, Areas 50-200% of the most recent t CCV standard; RTs ± 30 sec. from midpoint ICAL standard	Reanalyze and qualify data	Analyst/Data Reviewer

Table 14 QAPP Worksheet All Matrices – - SVOAs by USEPA SW-846 8270D
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Continuing Calibration Verification (CCV)	1 every 12 hour prior to analysis of samples	Concentration level near mid-point of ICAL curve containing all target compounds; *Full Scan*: %D or %Drift ≤ 20% for CCCs and ≤ 30% for all other compounds; *SIM*: %D or %Drift ≤ 30%	Recalibrate as required by method; note outliers in narrative.	Analyst
Accuracy	A	Quantitation	Every sample	RL ≤results ≤ upper calibration range on a sample-specific basis; IS must be used; and RL ≤results ≤ upper calibration range on a sample-specific basis; IS must be used; and average response factors or curve-statistics generated from the ICAL must be used for quantitation. Results reported between the MDL and RL qualified "J"	Perform dilution to bring analyte within linear range, qualify data	Analyst/Data Reviewer
Sensitivity	A	Reporting of Non-Detects	Every sample	Reported at the sample-specific RL which must be ≤ PRL	Potential data usability issue	Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	RPD ≤ 30% for waters or RPD ≤ 50% for solids w/results > 2x RL; Professional judgment for results < 2xRL	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	≤ 6º C; allow for < 2º C if samples intact sample preservation per SW-846 Chapter 4 Table 4-1	Potential data usability issue	Data Reviewer

Table 14 QAPP Worksheet All Matrices – - SVOAs by USEPA SW-846 8270D
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Aqueous samples extracted within 7 days of collection; extract analyzed within 40 days of extraction. Soil/Sediment samples extracted within 14 days of collection; extract analyzed within 40 days of extraction. If Soil/Sediment samples are frozen, HT arrested and extraction HT continues when thawed. Solid samples can be maintained frozen for 1 year from collection.	Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S	Equipment Blank [Site-specific QC]	Not Required if using dedicated sampling equipment. If performing decontamination of equipment, collect 1 EB per 20 field samples collected by the same method	Target analytes < RL	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:

1. This table was prepared by NJDEP, January 2011 to be compliant with EPA Region 2 guidance and meet the data quality needs of the Department.

2. Semivolatile Organic Compound analyses via USEPA SW-846 Method 8270D (*Quality Assurance and Quality Control Requirements for SW-846 Method* 8270D *Semivolatile Organic Compounds by Gas Chromatography/Mass Spectroscopy [GC/MS]).* 8270D:

** Potentially "difficult" analytes include: Benzenthiol, Benzoic Acid, 2,4-Dintrophenol, 3&4 – Methylphenol, 4-Nitrophenol, Pentachlorophenol, Phenol, Aniline, Aramite, A,A-Dimethylphenethylamine, Benzidine, Benzaldehyde, Benzyl Alcohol, Caprolactam, Chlorobenzilate, 3,3'-Dimethylbenzidine, 1,4-Dioxane, 7,12-Dimethylbenz(a)anthracene, Diallate, Dibenz(a,j)acridine, Diphenylamine, Disulfoton, p-(dimethylamine)azobenzene, Decane, Famphur, Hexachlorocyclopentadiene, Hexachloroethane, Hexachlorophene, Hexachloropropene, Kepone, 4,4'-methylenebis(2-chloroaniline), Methapyrilene, Methyl methanesulfonate, Methyl parathion, n-Nitrosodimethylamine, 4-Nitroquinoline-1-oxide, 2-Picoline, Parathion, Pentachloroethane, Pentachlorobenzene, Pentachloronitrobenzene, Phorate, Pronamide, Pyridine, p-Phenylenediamine, o-tricresyl phosphate and Tetraethyl. Please note that many of the surrogates fall outside or the 15 – 110% range 2-Fluorophenol, Phenol-d5, 2,4, 6-Tribromophenol and Terphenyl-d14.

Table 15 QAPP Worksheet Air – VOAs USEPA TO-15 (and NJDEP LLTO-15)
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	BFB Tune	Every 24 hours	Method tune criteria based on criteria in Table 3 of USEPA- Method TO-15	Perform instrument maintenance; reanalyze until acceptable	Analyst
Accuracy	A	Initial Calibration (ICAL)	Initially and when CCAL fails	Minimum 5-standards; must contain all targets and lowest standard ≤ RL; Full Scan: %RSD ≤ 30% for all compounds (allowance for 2 compounds up to ≤ 40%)	Recalibrate as required by method; analysis cannot proceed without a valid initial calibration	Analyst
Accuracy	A	Initial Calibration Verification Sample NJDEP TO-15 ONLY	Immediately after last ICAL std. and before any field sample.	Must contain all target; 30% recovery for all compounds (allowance for 2 compounds up to ≤ 40%)	Re-analyze; if failure still observed then take corrective action: re-calibration may be necessary	Analyst
Accuracy	A	Internal Standards (IS)	Minimum of 3 IS recommend Bromochloromethane, 1,4-Difluorobenzene and Chlorobenzene-d_5	Areas 60-140% of CCAL; Areas; RTs ± 0.33 minutes from CCAL RTs	Reanalyze and qualify data	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	Every 24 hours	Must be performed on a Site field sample. RPDs ≤ 25% for results > 5x the RL.	Qualify data and narrate issues of non-conformance	Analyst/Data Reviewer

Table 15 QAPP Worksheet Air – VOAs USEPA TO-15 (and NJDEP LLTO-15)
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Calibration Verification (CCV)	1 every 24 hours prior to analysis of samples	Concentration level near mid-point of ICAL curve using a concentration in the ICAL) containing all target compounds; *Full Scan and SIM*: min RRF criteria met; %D or % Drift ≤ 30% for all compounds	Recalibrate as required by method; note outliers in narrative.	Analyst
Accuracy	A	Laboratory Control Sample (LCS)	1 per preparatory batch of up to 20 samples	Must contain all target analytes, be matrix-matched; % Recovery 70-130% except for difficult analytes ** must exhibit percent recoveries between 40-160%.	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Reporting Limit Laboratory Control Sample (RLLCS) – NJDEP TO-15 ONLY	1per 24 hours Instrument Performance Check/ calibration sequence	Must contain all compounds; % recovery within 60-140 % of the known value for 90 % of the compounds	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Quantitation	Every sample	RL ≤ results ≤ upper calibration range on a sample-specific basis; IS must be used; and average response factors or curve-statistics generated from the ICAL must be used for quantitation.	Perform dilution to bring analyte within linear range, qualify data	Analyst/Data Reviewer
Sensitivity	A	Reporting of Non-Detects	Every sample	Report up to the 15 TICs that have the highest estimated concentration	Potential data usability issue	Data Reviewer

Table 15 QAPP Worksheet Air – VOAs USEPA TO-15 (and NJDEP LLTO-15)
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	S & A	Canister Certification	Batch or individual canister certification must be performed as directed by data user	Canister certifications target analytes must be < RL.	Reclean canisters until certification pass the acceptance criteria.	Analyst
Accuracy	S & A	Flow Controller Certification	Every Flow Controller	Pre-sampling and Post-sampling Flow Controller calibration checks RPD ≤ 20%	Narrate flow controller RPD non-conformance	Analyst
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	1 per 20 field samples	RPD ≤ 25% for results > 5x RL; Professional judgment for results < 5xRL	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S & A	Temperature, atmospheric pressure and canister pressure	Every Canister	Lab must evacuate to -27 to -30 inches of Hg prior to shipment to site. Sampler must document the canister initial vacuum at the site, date/time sampling starts, ambient pressure and temperature; the sampling stop date and time and canister final vacuum. If vacuum is -27 to -30 inches of Hg upon receipt at the site, the canister may be used for sample collection. (allowances are given for vacuum down to -24 inched Hg with notification given to the investigator)The laboratory must document the canister receipt vacuum.	Potential data usability issue if initial field vacuum is too low or the final field and laboratory receipt vacuums differ significantly (e.g. by 6 inches Hg)	Data Reviewer

Table 15 QAPP Worksheet Air – VOAs USEPA TO-15 (and NJDEP LLTO-15)
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy (preservation)	S & A	Canister pressure	Every Canister	Sampler must check vacuum prior to taking samples. If the vacuum is -27 to -30 inches of Hg when it left the lab, then the vacuum should be -24 to -30 inches of Hg for samples to be taken. If the vacuum is less, then the canister should not be used.	Notify the laboratory and request a new canister or seek guidance.	Sampler
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Analyses within 30 days of collection.	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	$\geq$ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Accuracy/ Sensitivity	A	Method Blank	1 every 24 hour prior to analysis of samples	Target analytes < RL	NA	Data Reviewer
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:

1. This table was prepared by NJDEP, April 2014 to be compliant with and the SRP VITG and meet the data quality needs of the Department.

2. Volatile Organic Compound analyses via USEPA Method TO-15 (*Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed by Gas Chromatography/Mass Spectroscopy [GC/MS]).*

** Potentially "difficult" analytes include: hexachlorobutadiene, 1, 2, 4-trichlorobenzene, naphthalene, acetone and 1, 4-dioxane.

[1] Please note that trip blanks, field blanks and MS/MSDs are not usually included in sampling activities associated with canister based air sampling.

Table 16 QAPP Worksheet Air – VOAs USEPA TO-17
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity Accuracy	A	BFB Tune	Every 24 hours	Method tune criteria based on criteria in Table 3 of USEPA- Method TO-15	Perform instrument maintenance; reanalyze until acceptable	Analyst
Accuracy	A	Initial Calibration (ICAL)	Initially and when CCAL fails	Minimum 5-standards; must contain all targets and lowest standard ≤ RL; for all compounds: %RSD ≤ 30% except naphthalene ≤ 40% or "r" ≥ 0.99 regression analysis, if used, must not be forced through the origin	Method allows for 2 exceptions up to a limit of 40% RSD. Recalibrate, note outliers in narrative	Analyst
Accuracy	A	Daily Calibration	1 every 24 hours prior to analysis of samples	Concentration level near mid-point of ICAL containing all target compounds; %D ≤ ± 30% IS % Recovery of CCV 50-200% of IS response in the ICAL	Recalibrate if > 10% target compounds exceed criteria or %D > 40%; note outliers in narrative.	Analyst
Accuracy	A	Laboratory Control Sample or Audit Standard	1 every 24 hours prior to analysis of samples	% Recovery 70-130%	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/ Data Reviewer
Accuracy	A	Internal Standards (IS)	Minimum of 3 IS recommend Fluorobenzene, 1,4-Dichlorobenzene-d_4, and Chlorobenzene-d_5	Areas 60-140% of CCAL; Areas; RTs ± 0.33 minutes from CCAL RTs	Reanalyze and qualify data	Analyst/ Data Reviewer

Table 16 QAPP Worksheet Air – VOAs USEPA TO-17
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Precision	A	Analytical Duplicate [optional]	Sample split after desorption onto GC/MS	RPDs ≤ 20% for results > 5x the RL.	Qualify data and narrate issues of non-conformance	Analyst/ Data Reviewer
Accuracy	A	Quantitation	Every sample	RL ≤ results ≤ upper calibration range on a sample-specific basis; IS must be used; and average response factors or curve-statistics generated from the ICAL must be used for quantitation. Results reported between the MDL and RL qualified "J".	Perform dilution to bring analyte within linear range, qualify data	Analyst/ Data Reviewer
Sensitivity	A	Reporting of Non-Detects	Every sample	RL ≤ 0.5 ppb (equivalent concentration)	Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S & A	Safe Sampling Volume (SSV) Check	Each sorbent tube checked annually or once every 20 uses, whichever is more frequent	One-half the retention volume or two-thirds of the break-through volume on a compound-specific basis	Re-condition sorbent tube and re-check	Analyst
Accuracy	S & A	Flow Rate	Checked before and after each sampling	RPD > 10% for initial versus final flow rate, collection invalid	New collection of samples required	Sampler

Table 16 QAPP Worksheet Air – VOAs USEPA TO-17
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	S & A	Sampling Time	Every Sample	1 hour at 16.7 mL/min and 66.7 mL/min for 1L and 4L sampling volumes, respectively	Narrate sampling pump RPD non-conformance	Analyst
Overall Precision & Representative ness	A	Distributed Duplicates	Recommended Duplicates collected in parallel with different sampling volumes (e.g., 1L and 4L)	RPDs ≤ 25% for results > 5x the RL.	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S & A	Conditioning of Sorbent Tubes	Every Sorbent Tube	Packed sorbent tubes must be conditioned and properly sealed prior to initial use as specified in Method TO-17. Target compounds should be ≤ RLs.	Potential data usability issue if conditioning insufficient	Data Reviewer
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Analyses within 30 days of collection.	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator

Table 16 QAPP Worksheet Air – VOAs USEPA TO-17
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	A	Method Blank	At least 2 per monitoring exercise using same lot of Sorbent tube as used for analysis	Target analytes < RL	NA	Data Reviewer
Accuracy/ Sensitivity	S	Field Blank	1 for every 10 samples/ monitoring event	Target analytes < RL	NA	Data Reviewer
Comparability	S & A	Based on Method (SOP) and QAPP/FSP protocols	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:
1. This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance and meet the data quality needs of the Department.

2. Volatile Organic Compound analyses via USEPA Method TO-17 (*Determination of Volatile Organic Compounds in Ambient Air Using Active Sampling onto Sorbent Tubes*) and Method TO-15 (*Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectroscopy [GC/MS]).*

** Potentially "difficult" analytes include: hexachlorobutadiene, 1, 2, 4-trichlorobenzene, naphthalene, acetone and 1, 4-dioxane.

Table 17 QAPP Worksheet All Matrices – NJDEP EPH Methodology
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	A	Method Blank	1 per extraction batch of up to 20 field samples (matrix-specific)	Blank concentration < 5X value of the MDL (additional action noted in section 9.1.4 of the method)	Reanalyze and, if necessary, re-extract. Report non-conformance in narrative; compounds present in blank should be flagged "B" in samples, if detected.	Analyst
Accuracy	A	Matrix Spike(sample not fractionated) [Site-specific QC]	Minimum of 5% of samples for each matrix	Must contain all aliphatic and aromatic compounds defined in method section 6.8.6; 40 - 140% recovery for all compounds (only up to & including C28 for #2 fuel/diesel).	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Matrix Spike/ (sample fractionated]	Minimum of 5% of samples for each matrix	Must contain all aliphatic and aromatic compounds defined in method section 6.8.6; 40 - 140% recovery for all compounds (only up to & including C28 for # 2 fuel/diesel).	Reanalyze, if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) (#2 fuel/diesel)	1 per extraction batch (up to 20 samples of similar matrix)	Must contain #2 fuel/diesel, 40-140% recovery for # 2 fuel/diesel. (continued below)	Reanalyze, or re-extract/re-analyze plus associated samples if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer

Table 17 QAPP Worksheet All Matrices – NJDEP EPH Methodology
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Precision	A	Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) (#2 fuel/diesel)		RPDs ≤ 25%	Reanalyze, or re-extract/re-analyze plus associated samples if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) (non-#2 fuel/diesel)	1 per extraction batch (up to 20 samples of similar matrix)	Must contain all aliphatic and aromatic compounds defined in method section 6.8.6; 40 - 140% recovery for all compounds except n-nonane @ > 25% (continued below)	Reanalyze, or re-extract/re-analyze plus associated samples if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Precision	A	Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) (non-#2 fuel/diesel)		RPDs for the aliphatic and aromatic carbon range concentrations (the sum of the individual compounds' concentrations within a carbon range) must be ≤ 25% (continued below).	Reanalyze, or re-extract/re-analyze plus associated samples if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer

Table 17 QAPP Worksheet All Matrices – NJDEP EPH Methodology
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) (fractionated samples)		Naphthalene & 2-methyl-naphthalene: concentration or each in aliphatic fraction < 5 % of total concentration	Reanalyze, or re-fractionate/re-analyze plus associated samples if necessary, qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Precision	A	Sample Duplicate (DUP)	5% of samples for each matrix from the site	Must be performed on a site sample, RPD ≤ 50%	Qualify data and narrate issues of non-conformance	Analyst/Data Reviewer
Accuracy	A	Surrogates	Every sample including QC	OTP and COD, 40 – 140 % recovery; samples undergoing fractionation: no COD in aromatic fraction and/or no OTP observed in aliphatic fraction	Reanalyze, if necessary or re-extract/re-analyze if necessary; re-fractionate and analyze if COD and/or OTP are in "wrong" fraction; qualify data	Analyst/Data Reviewer
Accuracy	A	Fractionating Surrogates	Every sample undergoing fractionation including QC	2-bromonaphthalene & 2-fluorobiphenyl 40 – 140 % recovery	Re-fractionate and reanalyze; note in non-conformance summary	Analyst/Data Reviewer
Accuracy	A	Initial Calibration (ICAL)	Initially and when CCAL fails	5-point calibration must contain all compounds and lowest standard ≤ RL; CFs established for each compound and, when fractionated, also for each aliphatic and aromatic carbon range; % RSD for all individual CFs ≤ 25% and when fractionated, also for each aliphatic and aromatic carbon range.	Recalibrate as required by method; analysis cannot proceed without a valid initial calibration	Analyst

Table 17 QAPP Worksheet All Matrices – NJDEP EPH Methodology
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy	A	Continuing Calibration (CCAL)	Prior to samples, every 20 samples or every 24 hours, whichever is more frequent, and at the end of the analytical sequence	Concentration level at mid-point of ICAL curve containing all compounds: %D ≤ 25% for total range, ≤ 30% any single compound; for samples undergoing fractionation: %D ≤ 25% for each carbon range, ≤ 30% any single compound in a range	Recalibrate as required by method; note outliers in narrative.	Analyst
Accuracy	A	Quantitation	Every sample	RL ≤ results ≤ upper calibration range on a sample-specific basis; average response factors generated from the ICAL must be used for quantitation and peak area, as used for ICAL, must be used for sample. Results reported between the MDL and RL qualified "J".	Perform dilution to bring analyte within linear range, qualify data	Analyst/Data Reviewer
Sensitivity	A	Reporting of Non-Detects	Every sample	Reported at the sample-specific RL which must meet site specific DQOs.	Potential data usability issue	Data Reviewer
Overall Precision & Representative-ness	S & A	Field Duplicate Samples [Site-specific QC]	5% field for fractionated and 5% field samples for non-fractionated analyses per matrix	RPD ≤ 30% for waters or RPD ≤ 50% for solids w/results > 2x RL; Professional judgment for results < 2xRL	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S	Temperature Blank or other Cooler Temperature Reading	1 Temperature reading per cooler to be recorded upon receipt at lab	Cool to ≤ 6º C; allow for < 2º C if samples intact	Potential data usability issue	Data Reviewer
Accuracy (preservation)	S	pH for aqueous samples	Every field sample	pH < 2	Adjust pH as soon as possible; note outliers in narrative	Analyst/Data Reviewer

Table 17 QAPP Worksheet All Matrices – NJDEP EPH Methodology
Measurement Performance Criteria & QC Samples

Data Quality Indicator (DQI)	QC Measure for Sampling (S), Analytical (A), or both (S&A)	QC Sample or Activity	Frequency / Number	QC Acceptance Limits (Measurement Performance Criteria)	Corrective Action (CA)	Person(s) Responsible for CA
Accuracy/ Sensitivity	S & A	Holding Time (HT)	Every field sample	Samples extracted within 14 days of collection; extract analyzed within 40 days of extraction.	Potential data usability issue	Data Reviewer
Accuracy/ Sensitivity	S	Equipment Blank [Site-specific QC]	Not Required if using dedicated sampling equipment. If performing de-con, collect 1 EB per 20 field samples collected by the same method	Compounds < RL	Potential data usability issue	Data Reviewer
Data Completeness	S & A	Calculate from valid/usable data collected	Not applicable	≥ 90% Overall	Potential data usability / data gap issue	Data Reviewer/ Investigator
Comparability	S & A	Based on Method (SOP) and QAPP protocols/DQOs	Not applicable	Comparison between historical data for qualitative integrity of the data. Comparison between spatially similar samples.	Potential data usability issue	Data Reviewer/ Investigator

NOTES:
1. This table was prepared by NJDEP, April 2014 to be compliant with EPA Region 2 guidance, and meet the data quality needs of the Department.

2. Method reference = NJDEP Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge.

Appendix C:

Glossary

Conceptual Site Model (CSM): An iterative tool that provides a description of relevant site features and the surface and subsurface conditions to understand the nature and extent of identified contaminants of concern and the risk they may pose to identified receptors.

Data of Known Quality (DKQ): Analytical data that comply with the quality assurance and quality control (QA/QC) and performance standards detailed in the individual QAPP.

Data Quality Indicators (DQIs): Performance acceptance criteria are sometimes expressed as DQIs. The principal DQIs are precision, accuracy (bias), representativeness, comparability, completeness, and sensitivity (collectively the PARCCS parameters).

Data Quality Objectives (DQO): Developed by the investigator to ensure that a sufficient quantity of information is collected and to ensure that the quality of the analytical data generated meet the goals of the project and support defensible conclusions that are protective of human health and the environment. DQOs should be developed at the beginning of a project, revisited, and modified, if necessary, as the project progresses.

Quality Assurance (QA): The total integrated program for assuring the reliability of monitoring and measurement data which includes a system for integrating the quality planning, quality assessment and quality improvement efforts to meet data end-use requirements.

Quality Assurance Project Plan (QAPP): A document which presents in specific terms the policies, organization, objectives, functional activities and specific QA/QC activities designed to achieve the data quality goals or objectives of a specific project or operation.

Quality Control (QC): The routine application of procedures for attaining prescribed standards of performance in the monitoring and measurement process.

Reporting Limit (RL): Defined as, for organics, the lowest initial calibration standard as adjusted for the dilution factor, sample weight/volume, and moisture content; and for inorganics, the concentration of that analyte in the lowest level check standard (which could be the lowest calibration standard in a multi-point calibration curve).

Secondary data: Data not originally collected for the purpose for which they are now being used. In addition, the level of QA/QC provided at the time of the original data collection may be unknown.

Appendix D:

List of Acronyms

ARRCS	Administrative Requirements for the Remediation of Contaminated Sites
COC	Contaminant of Concern
CSM	Conceptual Site Model
DKQ	Data of Known Quality
DKQP	Data of Known Quality Protocols
DQI	Data Quality Indicators
DQO	Data Quality Objectives
FSPM	Field Sampling Procedures Manual
GPS	Geographical Positioning System
ISRA	Industrial Site Remediation Act
LSRP	Licensed Site Remediation Professional
NELAC	National Environmental Laboratory Accreditation
NFA	No Further Action
NJDEP	New Jersey Department of Environmental Protection
OQA	Office of Quality Assurance
PARCCS	precision, accuracy (bias), representativeness, comparability, completeness, and sensitivity
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RAO	Response Action Outcome
RAW	Remedial Action Workplan
RIW	Remedial Investigation Workplan
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SI	Site Investigation
SOP	Standard Operating Procedure
SRM	Standard Reference Material
SRP	Site Remediation Program
USEPA	US Environmental Protection Agency

APPENDIX D

Example Data Quality Assessment / Data Usability Evaluation Worksheets

DATA QUALITY ASSESSMENT WORKSHEET 1

PAGE __ OF __

PROJECT:				**FILE NUMBER:**		
LABORATORY WORK ORDER				**REVIEWER:**		**DATE:**
BLANKS		**Compound**	**Compound**	**Compound**	**Compound**	**Notes**
Method Blank, VOCs	>RL?					
Method Blank, SVOCs	>RL?					
Method Blank, VPH	>RL?					
Method Blank, EPH	>RL?					
Method Blank, PCBS	>RL?					
Method Blank, Pest	>RL?					
Method Blank, Metals	>RL?					
Method Blank, Total Cyanide	>RL?					
Method Blank, ETPH	>RL?					
Method Blank Hex Chrome	>RL?					
Field Blank	>RL?					
Trip Blank	>RL?					
VPH Blank (methanol)	>RL?					
Blank Soil VOCs (methanol)	>RL?					
Blank Soil VOCs (water/bisulfate) circle	>RL?					
LCS	**SV**	**Low Bias**	**High Bias**	**Compound**	**Compound**	**Notes**
VOCs	<10%	> 10% & < LCL	>UCL			
SVOCs	<10%	> 10% & < LCL	>UCL			
VPH	<10%	> 10% & < LCL	>UCL			
EPH	<10%	> 10% & < LCL	>UCL			
PCB	<10%	> 10% & < LCL	>UCL			
PEST	<10%	> 10% & < LCL	>UCL			
Hex Chrome	<70%	>70 % & <LCL	> UCL			
Metals	<10%	> 10% & < LCL	>UCL			
Total Cyanide	<10%	> 10% & < LCL	>UCL			
ETPH	<10%	> 10% & < LCL	>UCL			
SURROGATES	**SV**	**Low Bias**	**High Bias**	**Compound**	**Compound**	**Notes**
VOCs	<10%	> 10% & < LCL	>UCL			
SVOCs	<10%	> 10% & < LCL	>UCL			
VPH	<10%	> 10% & < LCL	>UCL			
EPH	<10%	> 10% & < LCL	>UCL			
PCB	<10%	> 10% & < LCL	>UCL			
PEST	<10%	> 10% & < LCL	>UCL			
MS/MSDS	**SV**	**Low Bias**	**High Bias**	**QC Source**	**RPDS**	**Notes**
VOCs	<10%	> 10% & < LCL	>UCL	Batch? Site?		
SVOCs	<10%	> 10% & < LCL	>UCL	Batch? Site?		
EPH	<10%	> 10% & < LCL	>UCL	Batch? Site?		
PCB	<10%	> 10% & < LCL	>UCL	Batch? Site?		
PEST	<10%	> 10% & < LCL	>UCL	Batch? Site?		
Hex Chrome	<50%	> 505 & < LCL	>UCL	Batch?		
Metals	<10%	> 10% & < LCL	>UCL	Batch? Site?		
Total Cyanide	<10%	> 10% & < LCL	>UCL	Batch? Site?		
ETPH	<10%	> 10% & < LCL	>UCL	Batch? Site?		
FIELD DUPLICATES RPDS		**Soil**	**Water**	**Compound**	**Compound**	**Notes**
VOCs		RPD > 50%	RPD > 30%			
SVOCs		RPD > 50%	RPD > 30%			
VPH		RPD > 50%	RPD > 30%			
EPH		RPD > 50%	RPD > 30%			
PCB		RPD > 50%	RPD > 30%			
PEST		RPD > 50%	RPD > 30%			
Metals		RPD > 50%	RPD > 30%			
Total Cyanide		RPD > 50%	RPD > 30%			
EPH		RPD > 50%	RPD > 30%			
LAB DUPLICATES RPDS		**Soil**	**Water**	**Compound**	**Compound**	**Notes**
		RPD > 50%	RPD > 30%	Batch? Site?		
Hex Chrome		RPD >20%	RPD >20%	Batch		

Reasonable Confidence Achieved? Y/N Significant QC Variances Noted? Y/N Requested Reporting Limits Achieved? Y/N

Preservation Requirements Met? Y/N Holding Time Requirements Met? Y/N

Abbreviations: RL = Reporting Limit; LCS = Laboratory Control Sample; SV = Significant QC Variance; LCL= RCP Lower Control Limit; UCL= RCP Upper Control Limit; RPD = Relative Percent Difference; VOCs = Volatile Organic Compounds; SVOCs = Semivolatile Organic Compounds; VPH = Volatile Petroleum Hydrocarbons; EPH = Extractable Petroleum Hydrocarbons; PCBs = Polychlorinated Biphenyls; Pest = Pesticides; ETPH Extractable Total Petroleum Hydrocarbons

DATA QUALITY ASSESSMENT WORKSHEET 2

Project:
File Number:
Reviewer:
Date:
Notes:

Sample Number(s)	Compound(s)	Quality Control Nonconformance	Percent Recovery	Relative Percent Difference	High/Low or Indeterminate Bias	Comments
Note other QC nonconformances below (data package inspection, reasonable confidence. chain of custody, sample result, sample preservation and holding time evaluations.						

Notes:
Bias High: Reported result may be lower. Reporting Limit (RL) is acceptable as reported.
Bias Low: Reported results may be higher. Reporting Limit (RL) may be higher than reported.
Bias Indeterminate: Reported result may be biased; however, it's unclear whether the results may be biased low or high.

DATA USABILITY EVALUATION WORKSHEET

Project Name: _____
Laboratory: _____
Sample Delivery Group: _____
Sample Delivery Group Number: _____
Date Samples Collected: _____
Reviewer: _____

Describe the intended use of the data:

Nonconformance DQA Review Elements	Briefly Summarize DQA Nonconformances
Laboratory Report Inspection	
Reasonable Confidence Evaluation	
Chain of Custody Evaluation	
Sample Result Evaluation	
Sample Preservation and Holding Time Evaluation	
Blank Evaluation	
Laboratory Control Samples	
Surrogates	
Site Specific Matrix Spikes and Matrix Spike Duplicates	
Tentatively Identified Compounds	
Other QC data	

DATA USABILITY EVALUATION WORKSHEET

Provide a summary statement describing how the analytical data set relied upon is of adequate quality and of sufficient accuracy, precision, and sensitivity for the intended purpose. Questions for the investigator to consider during the DUE include, but are not limited to, the following, please see the text of this guidance for additional information:

How will the analytical data be used:

- Is this the initial site investigation to determine if and what contamination exists?
- Will the analytical results be used to determine compliance with Regulatory criteria (e.g. post excavation samples)?
- Will remedial action be conducted?
- Has remedial action been conducted?
- Are the results going to be used to guide further remedial investigation?
- Are the results going to be used to guide further remedial action (including monitored natural attention of groundwater)?
- Evaluate seasonal variability, or homogeneity in an environmental sample?

Laboratory QC Information

- If the results are close to a regulatory limit, does any QC bias affect the interpretation of the data?
  - Are significant QC variances reported?
  - Are the biases high or low?
  - Are the identified QC nonconformances related to results for substances that are reported as "ND," and the reporting limits are less than regulatory criteria?
  - Are the nonconformances related to poorly performing compounds that are not constituents of concern?
  - Are the nonconformances related substances that are not constituents of concern?
  - How do the nonconformances affect "NDs" and reported concentrations?

DQOs

- Were the DQOs precision, accuracy, representativeness, comparability, completeness and sensitivity met?
- Are all critical samples usable for the intended purpose(s)?
- Does sample homogeneity or heterogeneity affect the representativeness of the samples?

CSM

- Do any analytical QC nonconformances create significant data gaps in the conceptual site model?
- Evaluate the entire body of information (type, amount, and quality data) available for the specific area/release for which the data are presumed to be representative. Determine whether any newer data corroborate the older results and whether both sets of data are consistent with the CSM.
- Consider the risk of being wrong based on risk to potential receptors and the risk to human health and the environment.
- Consider the source of data (e.g., whether the data were generated by the investigator's own firm or some other firm, the investigator's own involvement with the project, method of collection for the samples, and reporting methods by other firms/laboratories generating the data). Perform a critical review of these data to evaluate its reliability.
- Consider any other site-specific factors.

APPENDIX P

Fill Use Plan

DRAFT

CLEAN FILL USE PLAN

For

HOBOKEN SW BLOCK 12 PARK
Block 12; Lots 1-7, 9, 12-18
57-59 Harrison Street
Hoboken, New Jersey
NJDEP PI #585028

Prepared For:

The City of Hoboken
94 Washington Street
Hoboken, New Jersey 07030

Prepared By:

Langan Engineering and Environmental Services, Inc.
River Drive Center 1, 619 River Drive
Elmwood Park, New Jersey 07407
NJ Certificate of Authorization No: 24GA27996400

15 December 2014
100497601

LANGAN

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Appendix A **NJDEP Alternative and Clean Fill Guidance for SRP Sites, Version 2, 12/29/2011**
Appendix B ***Site Investigation Report*** **(SIR) dated August 2012, and completed by Boswell McClave Engineering**

1.0 INTRODUCTION

This Fill Use Plan (the "Plan") has been prepared by Langan Engineering and Environmental Services, Inc. (Langan) on behalf of the responsible party, the City of Hoboken (Hoboken). This Plan describes a protocol for use of fill material to implement the engineering (i.e. cap) control to address the environmental conditions at the property identified as Hoboken SW Block 12 Park (Hoboken SW Park), Block 12; Lots 1-7, 9, 12-18, 57-59 Harrison Street, Hoboken, Hudson County, New Jersey, NJDEP Program Interest (PI) #585028 (hereafter identified as the Site).

The Plan is consistent with the requirements of the *Technical Requirements for Site Remediation* (*N.J.A.C. 7:26E*), and the New Jersey Department of Environmental Protection (NJDEP) *Alternative and Clean Fill Guidance for SRP Sites, Version 2.0, dated December 29, 2011 (ACFG)* (***Appendix A***).

The remainder of this Plan summarizes the project background, narrates the Site conditions, outlines the remedial strategy for the Site, and provides the information required by the NJDEP *ACFG.*

2.0 BACKGROUND INFORMATION

2.1 Site Setting

The Hoboken SW Park has been identified via a single address 57-59 Harrison Street for ease of identification, however the entire property contains numerous Lots and associate addresses, as follows:

- Block 12, Lots 1-6, 57-67 Harrison Street;
- Block 12, Lot 7, 69 Harrison Street;
- Block 12, Lot 9, 67-69 Paterson Avenue
- Block 12, Lot 12, 57 Paterson Avenue;
- Block 12, Lot 13, 55 Paterson Avenue;

- Block 12, Lot 14, 51-53 Paterson Avenue;
- Block 12, Lot 15, 64 Jackson Street; and,
- Block 12, lots 16-18, Jackson Street.

The Site is situated in the south western portion of Hoboken and is bordered to the north by Paterson Avenue, to the south by Observer Highway, to the west by Harrison Street, and to the east by Jackson Street. The Site presently contains an asphalt covered parking area, and an undeveloped vegetated Lot. The Site is approximately 0.75 acres in size, with ground surface elevation of approximately 13 feet above mean sea level (MSL), with a position described as Easting 619.028, Northing 694,044.

The neighboring properties include a mix of residential properties, industrial properties, and commercial properties.

Figure 1 provides a Site Location Map; ***Figure 2*** provides a Municipal Tax Map, while ***Figure 3*** provides an Aerial Photograph of the Site and the neighboring properties.

2.2 Site Development History

The Site, or portions thereof, has realized development since the late 1800's. Prior to the present uses, the Site history is best detailed in historic Sanborn Fire Insurance Maps (Sanborn), and historic Topographic maps dating back to 1891.

As detailed in the *Preliminary Assessment Report* (PAR) for the subject Site dated January 2012, and completed by Boswell McClave Engineering, the Site included undeveloped parcels including 1-7, 9, 11-18; as well as buildings containing stores and/or dwellings. [*Lot 11 was included as of the date of the PAR, but has since been removed from the project Site*]. The southern portion of Block 12 contained the foundations for a portion of an elevated superstructure of the North Hudson County Railway. This railway provided service from the

Jersey City Heights positioned to the west, to the Lackawanna Terminal to the east along the Hudson River.

The 1938 Sanborn maps provide evidence of increased development on the Site, including the presence of dwellings, multistory buildings including stores and apartments, storage buildings, and an ice house. Selected Lots including 1-6, 16-18 remained undeveloped. While the southern portion of Block 12 contained an elevated superstructure of the North Hudson County Railway.

The 1951 Sanborn maps identified selected Lots including 1-6, 16-18 as undeveloped. The Site includes dwellings, multistory buildings including stores and apartments, storage buildings, and a metal warehouse. The southern portion of Block 12 contained an elevated superstructure of the North Hudson County Railway.

The 1979 Sanborn maps identified selected Lots including 1-6, 16-18 as undeveloped. The remainder of the Site maintains functions similar to those identified in the 1951 Sanborn map. The southern portion of Block 12 has realized the removal of the elevated superstructure of the North Hudson County Railway.

The 1988 and 1990 Sanborn maps identified selected Lots including 1-6, 16-18 as undeveloped, while the structures on Lots 12, 13, 14, 15 have been removed/demolished. The remainder of the Site is similar to the 1979 Sanborn map. This configuration remains today, with the majority of the Site utilized as an asphalt covered parking lot (***Figure 3***).

2.3 Existing Site Conditions

The Site currently contains two (2) developed sections, as follows:

1. The largest section of the Site contains a asphalt paved parking lot

2. The smaller section of the Site (Lot 12) contains vegetation, and may realize a slightly higher elevation due to mounded soils

Figure 3 provides an Aerial Photograph of the Site, and depicts the two sections of the Site.

2.4 Soil Character

The Site is identified on the *Historic Fill of the Jersey City Quadrangle, Historic Fill Map HFM-53*, 2004, as containing historic fill (***Figure 4***).

The Site soils were investigated as part of the Site Investigation (SI) operations, and reported in the *Site Investigation Report* (SIR) dated August 2012, and completed by Boswell McClave Engineering (***Appendix B***). The SI operations included the advancement of seven soil borings to depths of approximately 10 feet below surface grade (bsg). The soil boring logs included as part of the SIR visually identify historic fill composition throughout the investigated interval. Selected soil samples collected from the historic fill materials were analyzed by a New Jersey certified laboratory for Target Compound List/Target Analyte List (TCL/TAL) parameters, for which the laboratory results were consistent with a historic fill profile.

2.5 Hydrogeology

Within the Newark Basin, ground water occurs in the shallow estuarine deposits, the unconsolidated glacial sediments, especially buried glacial valley aquifers, and in the bedrock of the Passaic Formation.

The recent sedimentary deposits are of little hydrogeological importance, except that they may function as either a recharge area for the underlying glacial deposits and/or bedrock, or serve as a cap retarding the downward migration of contaminants. Groundwater, if present, may be perched and under unconfined, water table conditions.

In the urban, industrialized areas of northeastern New Jersey, groundwater pumped from glacial valley fill aquifers and bedrock is used for general industrial manufacturing and processing, air conditioning and for sanitary purposes. Its use as a source of potable water has diminished significantly due to over pumping and contamination from industrial sources, as well as salt-water intrusion near the coast.

Hydrogeologic conditions underlying the Site are being investigated as part of Skymark's environmental activities. Groundwater is first encountered under water table conditions in the fill materials which overlie the former wetlands deposits (meadow mat, sands, and organic silts). Shallow groundwater flow direction is generally to the east and south, towards Overpeck Creek.

Further investigation of groundwater conditions within the fill materials, glacial deposits, and bedrock beneath the Site is ongoing and will be documented in a future AOC-specific Groundwater RI Report for the Site.

2.6 Environmental Conditions

The environmental conditions on Site representing the soil, and shallow groundwater media, are presented in this section of the report, and have been summarized to include the "typical" character represented by the specific AOC's, as well as the site wide underlying historic fill materials.

2.6.1 Existing Environmental Soil Conditions

The Site is identified on the *Historic Fill of the Jersey City Quadrangle, Historic Fill Map HFM-53*, 2004, as containing historic fill (***Figure 4***).

The Site soils were investigated as part of the Site Investigation (SI) operations, and reported in the *Site Investigation Report* (SIR) dated August 2012, and completed by Boswell McClave Engineering (***Appendix B***). The SI operations included the advancement of soil

borings, and the collection of selected soil samples for analysis by a New Jersey certified laboratory for Target Compound List/Target Analyte List (TCL/TAL) parameters.

The laboratory analytical results identified that the soils contain constituents that are consistent with the NJDEP's recognized character for historic fill per the former Historic Fill database, and the NJDEP *Historic Fill Material Technical Guidance, Version 2.0, April 29, 2013*. Numerous constituents are recognized in the Site soils including: polycyclic aromatic hydrocarbons (PAH), and TAL metals. The constituents are typically realized at concentrations exceeding the New Jersey Impact to Groundwater Soil Screening Limit (IGW) and/or the Residential Direct Contact Soil Remediation Standards (RDCSRS).

2.6.2 Existing Environmental Groundwater Conditions

The shallow groundwater was investigated as part of the Site Investigation (SI) operations, and reported in the *Site Investigation Report* (SIR) dated August 2012, and completed by Boswell McClave Engineering (***Appendix B***). The SI operations included the advancement of one Temporary Groundwater Sample Point (TGWSP), and the collection of a groundwater sample for analysis by a New Jersey certified laboratory for Target Compound List/Target Analyte List (TCL/TAL) parameters.

The laboratory analytical results identified that the groundwater contains semi volatile organic compounds (including PAH's), and metals identified above the NJDEP Groundwater Quality Criteria (GWQC), consistent with the NJDEP's recognized character for historic fill impacts.

No volatile organic constituents, dense non-aqueous phased liquid (DNAPL) or light non-aqueous phase liquid (LNAPL) have been identified on Site.

3.0 REMEDIAL STRATEGY

Environmental remedial actions are required for only one AOC (Historic Fill) which contains constituent exceedances of the applicable NJDEP media specific standards.

The remedial action strategy that will be applied to this Site will include the implementation of engineering (e.g. cap) and institutional (e.g. deed notice, classification exception area) controls. The implementation of this strategy, including the installation of engineering control mechanisms, and will be integrated into the construction considerations for a new neighborhood park. Consistent with the management of historic fill, the NJDEP will also implement a site wide CEA for the shallow aquifer underlying the Site.

3.1 Proposed Engineered Cap Installation

Prior to installation of the engineering (i.e. cap) control, appropriate federal, state and municipal permits will be secured by Hoboken to allow material acceptance on the Site.

The actual cap installation operations will be typical for a construction Site, and will include the following generic tasks:

- Installation of sediment and erosion control mechanisms per the required permit specifications
- Site grading to desired pre-fill elevations
- Importation and stockpiling of approved clean fill
- Imported material load tracking (i.e. placement location on Site), and field screening
- Placement/installation of clean fill material consistent with the design specifications

As part of the clean fill material delivery process, the clean fill material supplier/source will be responsible for coordination with the project team and

the LSRP. Said coordination will be necessary to ensure that the imported clean fill material is pre-approved, and that the documentation for the material including the laboratory analytical data and the approval documentation from the Site is established. Thereafter the clean fill material supplier/source will be responsible for providing the delivery documentation (i.e. weigh tickets/bill of lading) in a timely basis. It should be recognized that the delivery operations will include delivery and of the materials, no on Site operations are required. Given this condition, the delivery person(s) will not be required and/or permitted access to any portions of the Site, other than those specific to the delivery task.

4.0 REQUIREMENTS FOR ALL FILL MATERIALS

This Plan has been generated as part of the anticipated remedial activities that will be completed for implementation of the RAWP designated operations. This Plan has been generated prior to the selection of the designated Site contractor; therefore the Plan does not contain the identified contractors, or specific material sources. Given this condition, the following subsections reflect requirements detailed in NJDEP *ACFG, Appendix B* and should be applied generically, as appropriate.

4.1 Donor Site Identification

The donor site/source for the materials that will be imported onto the Site has not been established as of the date of this document.

Once identified, each source(s) will be subject to a Site Review by the LSRP pursuant to Section 6.0 of the *ACFG*. The facilities/sources selected to provide material will be documented, and reported in the next submission to the NJDEP.

4.2 Fill Supplier Personnel

The facilities/sources of clean material, once selected, will identify the responsible individual(s) which will coordinate the Site Review, and associated

material documentation. These individuals will be documented in the next submission to the NJDEP.

4.3 Donor Site Description

Each donor site/source of material will be subject to a Site Review by the LSRP pursuant to Section 6.0 of the *ACFG*. The donor site/source selected to provide material will be documented, and reported in the next submission to the NJDEP.

4.4 Volume of Fill

The volume of material anticipated for the proposed engineering (i.e. cap) control installation is approximately 2,000 cubic yards. The design of the engineering (i.e. cap) control will include several different materials including, but not limited to common fill, sand, and dense graded aggregate (DGA). The volumes of each of the products is specific to the design, and will be documented, and reported in the next submission to the NJDEP.

4.5 Locations of Fill Use

The selected materials including, but not limited to common fill, sand, and DGA, will be utilized across the Site, depending upon design criteria. Given this consideration, the exact locations are not available as part of this report submission.

The final installation conditions, including the location and volume of imported material, will be documented, and reported in the next submission to the NJDEP.

4.6 Depth to Ground Water

The previously completed investigation operations on Site have identified shallow groundwater conditions which were inconsistent across the Site. In

detail based on the findings of the SI, the depth to groundwater was identified to fluctuate from 5.0 to 9.0 feet below ground surface.

4.7 Geotechnical Properties of Proposed Fill

The imported clean fill material will be designated as part of the project design specifications, and will reflect the specific on site use criteria. The material will be placed and compacted to meet the in-place density required by the Project specifications.

4.8 Receiving and Donor Site Uses

The receiving Site (Hoboken SW Block 12 Park SRP ID #585028) will utilize the imported fill material including, but not limited to common fill, sand, and DGA, based upon design criteria. Given this consideration, the exact locations are not available as part of this report submission. The final installation conditions, including the location and volume of imported material, will be documented, and reported in the next submission to the NJDEP.

The Donor Site/Source for the clean fill has not been established as of the date of this document. Given his condition the characteristic and operations of the donor site/source have not been determined. The facilities/sources selected to provide material will be documented, and reported in the next submission to the NJDEP.

4.9 Performance, Effectiveness, and Reliability

The material proposed for use on the Site as clean fill, once identified, will be assessed per the *Technical Requirements for Site Remediation* (*N.J.A.C. 7:26E*), and the NJDEP *ACFG*.

The materials approved for use on the Site will have realized sampling and laboratory analysis at the appropriate frequencies, and for the required

parameters, as identified in Section 6 of the *ACFG* and modified, if appropriate, by the LSRP for the site. If, and when appropriate, contingent/subordinate sampling and analysis will be completed to address IGW considerations.

All materials will be below the NRDCSRS, RDCSRS, and the IGWSSL and/or have completed appropriate contingent/subordinate sampling and analysis to address Impact to Groundwater considerations.

Placement of the clean fill material in accordance with the project specifications will not exacerbate the soil contamination already documented to be present within the Project area, and will be an effective means of facilitating remediation of existing soil contaminants at the site. Similarly the use of clean fill within the Project area will not have any adverse effect on human health, safety, or the environment. Effectively the imported clean fill material will be placed on top of the existing Site soils, and will be integrated as part of the engineered cap.

4.10 Fill Tracking and Quality Control

The clean fill materials delivered to the Site will realize tracking via the completion of load specific documentation. Each load of material will be tracked either via a load ticket, for material supplied by the cubic yard; or via weight tickets/bill of lading for those material supplied by weight. Both documentation mechanisms will identify the truck, material, source, and as applicable the weight or volume.

Project specified representatives will periodically observe the truck loading operations at the source facility to document the procedures employed.

Upon arrival at the Site, the driver of each truck will provide the on-site representative with the executed load ticket, or bill of lading for that truck. The Site representative will record the delivery in a field log, retain the load ticket/bill of lading, direct the truck to the correct dump location.

Quality control of the imported material will include on-Site observation of the dumped material consistent with the field screening procedures detailed in the NJDEP *Field Sampling Procedure Manual, August 2005, Updated April 2011,* to ensure the material does not have visual, olfactory or screening (i.e. phoionization detector) indications of contamination, contain free liquids, extraneous debris, or solid waste.

Movement and placement of the material will be documented on a site plan and cross section plans. Volume, thickness, and location of the fill material will be documented.

The tracking and quality control documentation reported in the next submission to the NJDEP

4.11 Field Sampling and Quality Assurance Project Plan (QAPP)

No additional data is expected to be generated during implementation of this plan unless supplemental material characterization sampling is required by the LSRP, and/or to accommodate the frequencies and laboratory analytical requirements of the *ACFG*. In the event that additional data collection becomes necessary, a QAPP will be prepared in accordance with the requirements of N.J.A.C. 7:26E – *Technical Requirements for Site Remediation.*

4.12 Reliability of Laboratory Sourced Analytical Data

The laboratory analytical data utilized for assessment of the potential clean fill sources will adhere to the requirements set forth in the *Technical Requirements for Site Remediation* (*N.J.A.C. 7:26E*), and the NJDEP *ACFG*.

All analysis will be completed by a New Jersey-certified analytical laboratory, and the deliverables will include a "reduced" package".

The laboratory analytical data will be documented, and reported in the next submission to the NJDEP.

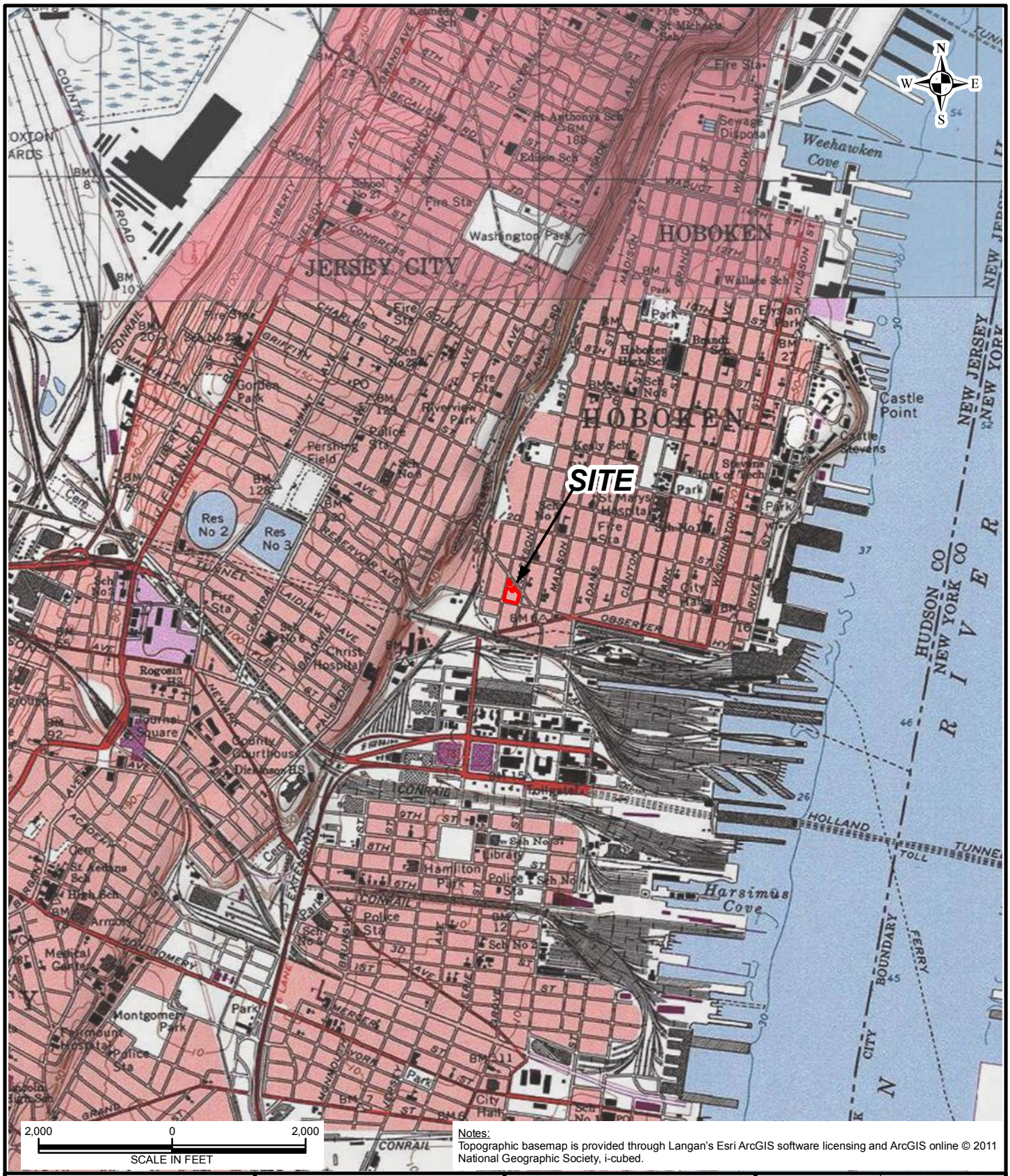
5.0 REQUIREMENTS FOR ALTERNATIVE FILL MATERIAL

Alternative fill materials will not be used for the construction of the engineering (i.e. cap) control. Therefore, pursuant to the NJDEP *ACFG, Appendix B* further discussion of the following information is not required in this plan:

- Like-on-Like Analysis
- 75th Percentile Analysis
- Waste Classification of Fill Material
- Cut and Fill Calculations
- Potential Impacts to Groundwater
- Potential Impacts to Surface Water, Sediment and Ecological Receptors

6.0 REPORTING

Following the installation of the engineering (i.e. cap) control on the Site, appropriate NJDEP specified reporting obligations will be completed, and submitted to the NJDEP with the oversight of the Sites LSRP. Inclusive to the reporting will be documentation of the aforementioned clean fill material importation operations



2,000 0 2,000

SCALE IN FEET

Notes:
Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online © 2011 National Geographic Society, i-cubed.

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Langan International LLC
Collectively known as Langan

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

SW PARK

BLOCK No. 12, LOT No. 1-7, 9, 12-18
NJDEP SRP PI# 585028
HOBOKEN

HUDSON COUNTY NEW JERSEY

Drawing Title

USGS SITE LOCATION MAP

Project No. 100497601	Figure 1
Date 11/20/2014	
Scale 1"=2,000'	
Drawn By ATR	
Last Revised 12/4/2014	

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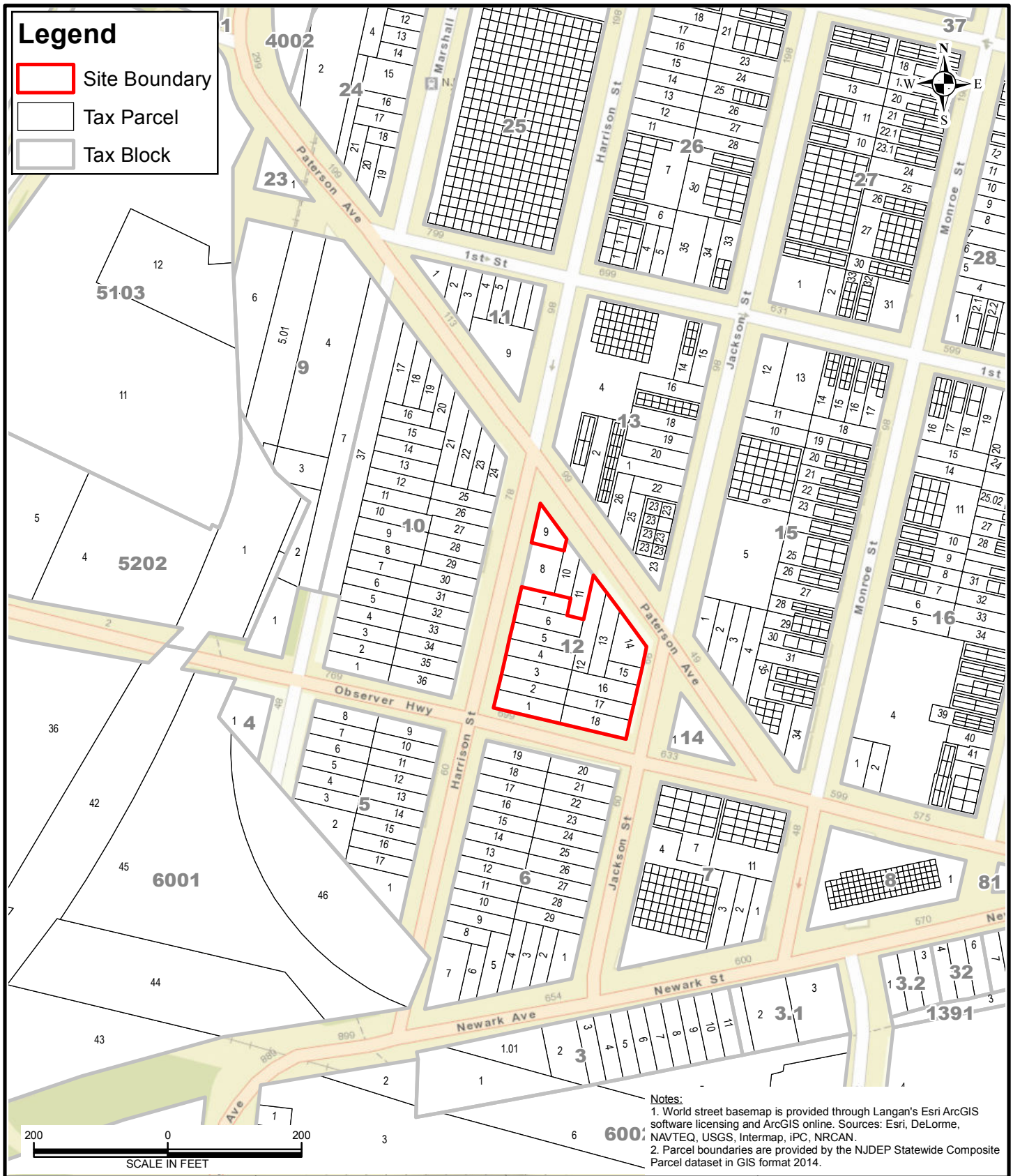
Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\SW Park Env\Figure 1 - Site Location Map.mxd Date: 12/4/2014 User: aruane Time: 1:12:45 PM



Notes:
1. World street basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN.
2. Parcel boundaries are provided by the NJDEP Statewide Composite Parcel dataset in GIS format 2014.

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	Drawing Title	Project No.	Figure
SW PARK BLOCK No. 12, LOT No. 1-7, 9, 12-18 NJDEP SRP PI# 585028 HOBOKEN HUDSON COUNTY NEW JERSEY	MUNICIPAL TAX MAP	100497601	2
		Date: 11/20/2014	
		Scale: 1"=200'	
		Drawn By: ATR	
		Last Revised: 12/4/2014	

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Path: \\langan.com\data\EP\data6\100497601\ArcGIS\ArcMap_Documents\SW Park Env\Figure 2 - Municipal Tax Map.mxd Date: 12/4/2014 User: aruane Time: 1:12:58 PM

Notes:
1. World aerial imagery basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS. Source of imagery is Microsoft from 2011.
2. Parcel boundaries are provided by the NJDEP Statewide Composite Parcel dataset in GIS format 2014.

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
SW PARK
BLOCK No. 12, LOT No. 1-7, 9, 12-18
NJDEP SRP PI# 585028
HOBOKEN
HUDSON COUNTY NEW JERSEY

Drawing Title
AERIAL MAP

Project No.	100497601
Date	11/20/2014
Scale	1"=50'
Drawn By	ATR
Last Revised	12/4/2014
Figure	3

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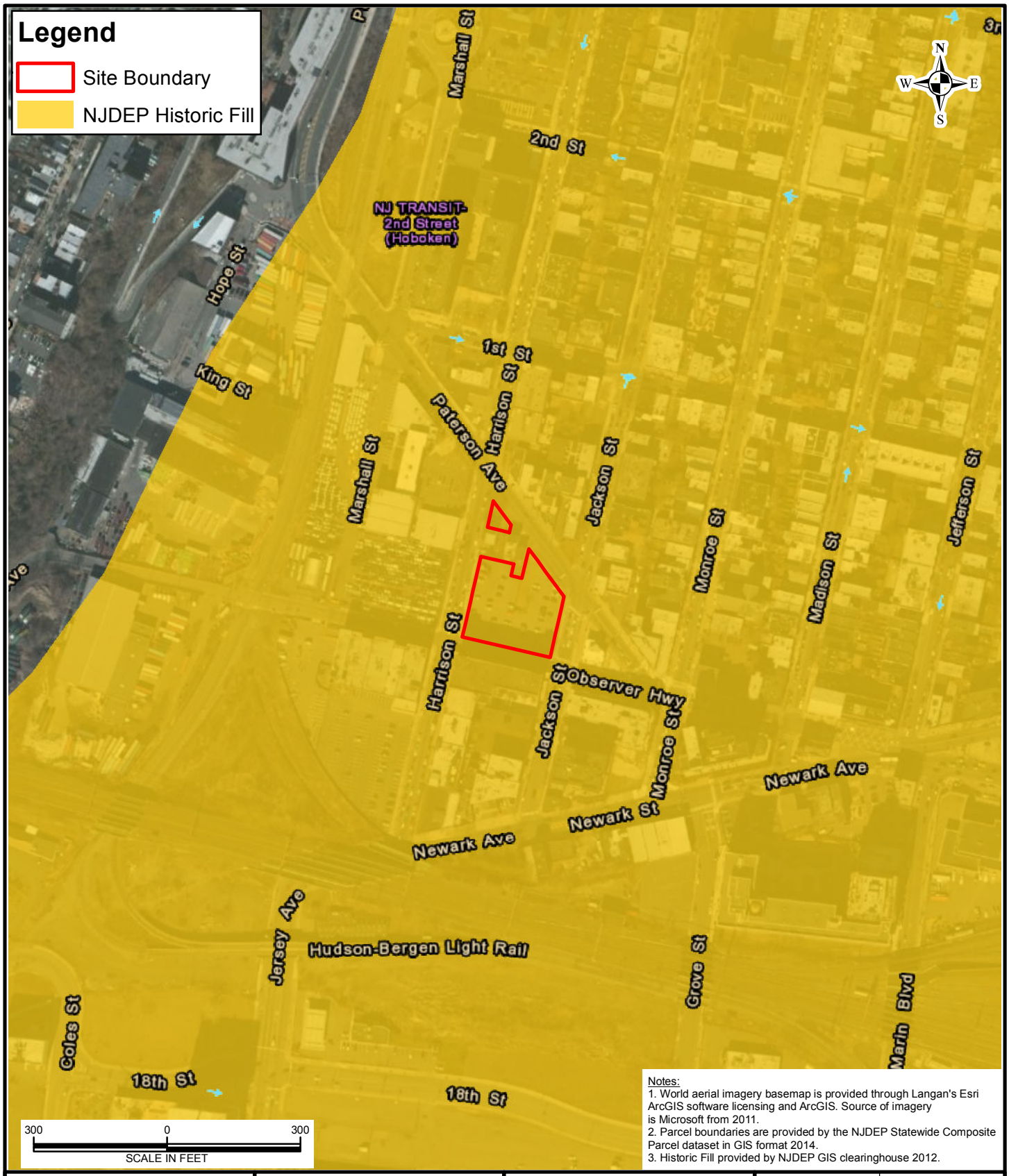

Notes:
1. World aerial imagery basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS. Source of imagery is Microsoft from 2011.
2. Parcel boundaries are provided by the NJDEP Statewide Composite Parcel dataset in GIS format 2014.
3. Historic Fill provided by NJDEP GIS clearinghouse 2012.

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Project	Drawing Title	Project No.	Figure
SW PARK BLOCK No. 12, LOT No. 1-7, 9, 12-18 NJDEP SRP PI# 585028 HOBOKEN HUDSON COUNTY NEW JERSEY	HISTORIC FILL MAP	100497601	4
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APPENDIX A

NJDEP Alternative and Clean Fill Guidance for SRP Sites, Version 2, 12/29/2011

New Jersey Department of Environmental Protection

Site Remediation Program

Alternative and Clean Fill Guidance for SRP Sites

Updated December 29, 2011
Version 2.0

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1 INTENDED USE OF GUIDANCE STATEMENT

This guidance is designed to help the person responsible for conducting remediation to comply with the New Jersey Department of Environmental Protection (Department) requirements established by the Technical Requirements for Site Remediation (Technical Rule), N.J.A.C. 7:26E. Because this guidance will be used by many different people that are involved in the remediation of a site, such as Licensed Site Remediation Professionals (LSRPs), Non-LSRP environmental consultants, and other environmental professionals, the generic term "investigator" will be used to refer to any person that uses this the guidance to remediate a contaminated site on behalf of a remediating party, including the remediating party itself.

The procedures for a person to vary from the technical requirements in regulations are outlined in the Technical Rules at N.J.A.C. 7:26E-1.7. Deviation from technical guidance must be documented and adequately supported with data or other information. However, this deviation does not require the Department's pre-approval.

This guidance supersedes previous Department guidance issued on this topic, pursuant to N.J.S.A. 26:10C-16, and was prepared with stakeholder input. The entire committee consists of:

Teruo Sugihara, Co-Chair (Department);
Rodger Ferguson, LSRP, Co-Chair (Stakeholders), Sadat Associates, Inc.;
David Barskey, Department;
Kathleen Kunze, Department;
Carrie McGowan, ISP Corporation;
Kathleen Murray, TERMS Environmental Services, Inc.; and
Neil Rivers, Langan Engineering & Environmental Services, Inc.

2 PURPOSE

The purpose of this document is to provide guidance on the use of alternative fill and clean fill strictly at Site Remediation Program (SRP) sites, and specifically at an area of concern (AOC). Note that an AOC may be the whole site. All other applications or use of this technical guidance at non-SRP sites or properties is beyond the scope and authority of the SRP regulations.

In particular, this document:

- provides background on the need for establishing the alternative/clean fill requirements;
- provides different approaches to achieve compliance with the alternative/clean fill requirements in the Technical Rule;
- facilitates the use of alternative fill in a protective manner;
- provides the default sampling frequencies for fill characterization and options for reduced sampling frequencies; and
- aids in the evaluation, approval, and use of fill at SRP sites.

The intent of this technical guidance is to address the majority of SRP sites where fill will be used as part of the remedial action. The Department recognizes that due to the complexity and diversity of SRP sites variances from the Technical Rule and deviations from this technical guidance may be appropriate to address site-specific conditions. This technical guidance may also apply to the backfill of underground storage tank (UST) excavations, including homeowner USTs; however, there may be additional technical guidance from the Department for UST remediations that also apply and should be considered by the investigator before making a backfill decision.

3 OVERVIEW

3.1 Organization

This technical guidance covers both alternative fill and clean fill. Sections 4 and 5 address, respectively, the on-site and off-site use of alternative fill. Section 6 addresses the use of clean fill. Because the remediation of a given SRP site does not necessarily involve the use of both alternative and clean fill, the document handles each fill type in separate sections. To ensure clarity, each section is complete and independent for each fill type. Therefore, it is recognized that there is some repetition of requirements that apply to both fill types.

3.2 Limitation to Only SRP Sites

This technical guidance applies to the use of alternative fill and clean fill only at SRP sites. The SRP does not regulate or approve products at their point of origin when they are not destined to be part of the remediation at a SRP site. The use of alternative fill and clean fill at non-SRP sites is beyond the scope and authority of the SRP regulations. Because the SRP remediates sites where a discharge has occurred, this technical guidance is not designed to address or be applied to other situations.

3.3 Protectiveness Requirement

Guidance is provided for the use of alternative fill (that might otherwise be disposed as solid waste) at SRP sites in a way that is protective of human health and the environment and is consistent and supportive of the selected remedial action. The overall objective is that the alternative fill be thoroughly understood as to the types and concentrations of contaminants and its homogeneity. Alternative fill may include contaminated material that has been treated, but some contaminants still exceed the applicable remediation standards or criteria. As discussed below in Section 3.5, the use of alternative fill must not increase the contaminant concentrations present at a receiving AOC or introduce additional contaminants not already present at a receiving AOC.

3.4 Preserving Landfill Capacity/Prohibiting Excess Filling

The remediation process commonly results in the excavation of contaminated soils for off-site disposal. There is limited landfill capacity for the disposal of contaminated soils, including the use as daily cover. Thus, the treatment, recycling, or beneficial use of these impacted soils is important to conserve landfill capacity. Filling is routinely employed in the remediation of AOCs (which may encompass the entire site), including:

- leveling of the grade where insufficient material is on site and where reasonable changes in design will not eliminate the need for the material;
- raising the elevation of the site to preclude flooding that might compromise the integrity of the selected remedial alternative; and
- material needs required by a cap design.

Note that material in excess of that required by a remedial action (e.g., cap design or backfilling of excavations) is prohibited unless pre-approval is obtained from the Department pursuant to N.J.A.C. 7:26E-5.

3.5 SRP Policy Objectives (Like-on-Like and 75th Percentile)

In establishing the use of alternative fill, the intent is to achieve the following primary objectives pursuant to the Department's policy in Appendix C of this technical guidance:

- No new contaminants may be placed in an area of concern (AOC) other than those already determined to be present. This concept is referred to as the **like-on-like requirement.**
- Contaminant concentrations in the alternative fill shall be lower than those on the receiving site AOC. This objective is referred to as the **75th percentile compliance requirement**.

The Department anticipates that the use of these two requirements and this technical guidance will appropriately allow the majority of remedial actions to proceed without the use of a variance from the Technical Rule. However, there may be site-specific situations where it is in the public benefit to vary from this policy and the Technical Rule. Because Department pre-approval is not required as part of this variance process, serious consideration of the situation is warranted when employing the variance option. Removal of the alternative fill may be required if the Department subsequently determines the use is not protective of human health and the environment.

Note that consultation with the Department prior to using a variance is available to the regulated community to assist in resolving future concerns prior to implementation. The Department further recognizes that this policy and this technical guidance will be re-evaluated in the future and revised, if necessary.

3.6 Clean Fill

Clean fill is commonly used as a component of a remedial action, such as for the construction of the final cap of an engineering control (N.J.A.C. 7:26E-5) and must be used for the buffer and barrier layers for presumptive remedies (N.J.A.C. 7:26E-5). **Clean fill may include contaminated material that has been treated so it meets the definition of clean fill.**

3.7 Investigator Responsibilities

As discussed throughout this technical guidance, the investigator will be making the determination whether proposed fill may be imported to or moved around a SRP site or AOC and meets the requirements of the Technical Rule and this technical guidance. In most cases, a LSRP will be acting as the investigator for the site or AOC receiving alternative and/or clean fill without direct approval from the Department. In those cases under Department oversight, or where Department pre-approval of a Remedial Action Work Plan is required, the Department will approve the use of fill material based on the information provided by the investigator (the consultant, contractor, or LSRP hired by the Department).

3.8 Protection of Environmentally Sensitive Natural Resources and Sensitive Receptors

The use of alternative and/or clean fill in areas where there are **ESNRs** (environmentally sensitive natural resources, such as protected areas, wetlands, or open water) and/or sensitive receptors (as defined by the Technical Rule) may occur only where such use is in compliance with the Technical Rule, this technical guidance, and all other federal, state, and local laws,

regulations, and guidance. For example, the requirements of a waterfront development permit may include stipulations on the type of fill and the area where the fill may be placed.

3.9 Free Liquids Prohibition

Material containing free liquids as determined by the paint filter liquids test (SW-846 Method 9095A or 9095B), or equivalent method, may not be used unless these liquids are appropriately removed and properly treated and/or disposed prior to placement. Material containing a certain amount of free liquids may be acceptable for placement as fill where the remedial action is designed to accommodate such material and such placement is in compliance with the Technical Rule, the rest of this technical guidance, and all other federal, state, and local laws, regulations, and guidance. Use of material containing free liquids is a deviation from this technical guidance that must be documented and adequately justified in the applicable work plan or report. However, this deviation does not require the Department's preapproval, except for sediment, dredged material, and processed dredged material as discussed in later sections of this technical guidance. **Free liquids also include free and/or residual product.**

3.10 Beneficial Use and CAO/BUD

The SRP and the Division of Solid and Hazardous Waste (DSHW) concur that alternative fill that is defined to be soil in this technical guidance may be placed pursuant to N.J.A.C. 7:26-1.7(g)4v and be in compliance with the Solid Waste Rules without needing to obtain a Certificate of Authority to Operate (CAO)/Beneficial Use Determination (BUD). For those alternative fill materials that are defined to be non-soil (this includes Class B recyclables, construction and demolition material, and recycled concrete), a CAO/BUD must be obtained pursuant to DSHW regulations. Note that dredged material and processed dredged material (PDM) do not require a CAO/BUD pursuant to N.J.A.C. 7:26-1.6(a)5, but they do require a separate approval with an Acceptable Use Determination (AUD) from the Department's Office of Dredging and Sediment Technology for the donor source (i.e., dredger or processor).

3.11 Presumptive Remedies

Alternative fill may be considered for use as part of remedial action in an AOC that requires a Presumptive Remedy consisting of an engineering control, but it can only be used below the engineering control (i.e., below the demarcation layer) as described in the Department's Presumptive & Alternative Remedy Guidance.

4 ALTERNATIVE FILL FROM OFF-SITE SOURCES

4.1 Sampling the Receiving Site Area of Concern

Soil must be fully delineated at the receiving AOC according to the Technical Rule and applicable technical guidance. The Remedial Investigation (RI) data for each AOC shall be evaluated to determine the contaminants of concern (COC) and their concentrations. To meet the like-on-like requirement, single phase and discrete discharge remediations may require sampling and analyses for additional contaminants as presented in Section 4.5.2 of this technical guidance.

4.2 Like-on-Like Requirement

No new contaminants may be placed in an area of concern (AOC) other than those already determined to be present. This concept is referred to as the like-on-like requirement. Allowing the use of alternative fill with contaminants not already present in an AOC would constitute a new discharge as defined at N.J.A.C. 7:26E-1.8. Furthermore, the use of alternative fill in this situation would be de facto landfilling (i.e., the "placement" of new wastes) without complying with the Department's solid and hazardous waste regulations. The Department does not endorse the circumvention of these regulations and intends to minimize the potential for doing so through this technical guidance and the Technical Rule. Therefore, the acceptance of alternative fill should be limited to the contaminants already present at the receiving AOC, which means the areal extent of the receiving AOC cannot be increased.

For the purposes of this guidance only, certain polycyclic aromatic hydrocarbons (PAHs) will be considered to be the same contaminant if their relevant ingestion-dermal health-based criteria are the same (see Appendix I of the Soil Remediation Standards N.J.A.C. 7:26D). For example, for a residential exposure scenario, benzo(a)pyrene and dibenz(a,h)anthracene can be considered as the same contaminant for movement of alternative fill onto a receiving site since their ingestion-dermal health-based criteria are both 0.06 mg/kg and they have the same health endpoint .Within each sample at a receiving or donor site these contaminants may be added together, but they cannot be added between separate samples. Therefore, if the observed concentrations of benzo(a)pyrene and dibenz(a,h)anthracene in a sample are 2 mg/kg and 5 mg/kg, respectively, then the combined PAH concentration for this set of contaminants would be 7 mg/kg in that sample. This 7 mg/kg concentration would then be the concentration used for the 75th percentile evaluation of the receiving AOC as described in section 4.3 below. This exercise would also be performed for the donor site data to determine the maximum concentration to be used in the compliance process. The other grouping that may occur would be benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene as they all have ingestion-dermal health-based criteria of 0.6 mg/kg for a residential exposure scenario, and 2.0 mg/kg for a non-residential exposure scenario. Note that non-carcinogenic PAHs <u>may not</u> be grouped because each has a different health endpoint.

4.3 75th Percentile Evaluation of Receiving Site Area of Concern

The Department has determined there should be confidence that the contaminant concentrations in the donor material used as alternative fill do not exceed the contaminant concentrations already known to exist in a given AOC. Using alternative fill with higher contaminant concentrations would result in making contamination worse at the receiving AOC. Of particular

concern are the higher concentrations of a contaminant distribution. There are two issues with the higher concentration data. One, delineation of contamination for an AOC at a receiving or donor SRP site is focused on sampling to meet the applicable remediation standards, so just one or a few samples characterize the upper end of a contaminant distribution, and these samples may represent a large volume of material and mass of contaminants. As a result, there will be more uncertainty concerning the characterization of receiving site and donor site material at the higher contaminant concentrations. Two, where the donor material being evaluated is at a non-SRP site; is from disturbed, possibly stockpiled material; or is from a manufactured, blended, or decontaminated soil, it will be difficult to determine with confidence that samples were biased and collected from the area of highest contaminant concentration. The net effect is limited data for the volume of material with higher contaminant concentrations and/or lower confidence that the data represent the highest contaminant concentrations.

To minimize the potential use of alternative fill with higher contaminant concentrations than in the receiving AOC, alternative fill is acceptable provided the maximum contaminant concentrations in the alternative fill are less than the 75th percentile of the contaminant concentrations already present at the receiving AOC. This concept is called the 75th percentile requirement (see Appendix C). The selection of the 75th percentile of the receiving AOC data as the acceptance criterion for alternative fill is further discussed in Appendix A. For most sites, particularly with smaller-sized AOCs or limited data for the higher contaminant concentrations, this compliance requirement is likely to be the most cost-effective method of screening data from potential donor material.

The procedure for determining the 75th percentile at the receiving AOC consists of the following steps:

(1) Collect and/or assemble data for the receiving AOC (or site when the whole site is the AOC) where the fill is proposed to be placed (placement location at the receiving site). The sampling of the placement location will typically result from a completed RI process.
(2) Organize the data from the receiving AOC placement location so that each contaminant of concern is listed from least contaminated to most contaminated.
(3) Determine the 75th percentile for each contaminant. The investigator is referred to Appendix A for the calculation of the 75th percentile.
(4) Collect and/or assemble data from the donor material for the alternative fill being proposed for placement. If data from a completed RI are not available for the donor material, use the sampling approach in this Technical Guidance (Section 4.5). It is highly recommended that data be obtained prior to excavation and shipment to the receiving AOC to avoid the possibility of having to remove alternative fill that does not meet the Technical Rule or this technical guidance.
(5) Determine the maximum concentration for each contaminant in the donor material proposed for placement. Then determine whether the maximum concentration is less than the respective 75th percentile for each contaminant in the receiving AOC placement location. If the maximum concentration of each contaminant is less than the respective 75th percentile for those same contaminants in the receiving AOC placement location, then the alternative fill is acceptable and placement is permissible.

4.4 Compliance Options Other than the 75th Percentile Requirement

Statistically-based compliance options other than the 75th percentile requirement in Section 4.3 may be considered where appropriate to characterize the receiving AOC. More complicated or robust statistical evaluations are generally acceptable as long as the data are from discrete samples, outliers are not excluded, and all other statistical requirements for this evaluation are met. However, additional samples may have to be collected and analyzed to better characterize the volume of material with higher contaminant concentrations and provide sufficient data for the statistical calculations. This generally requires a large sample set (i.e., greater than twenty samples per AOC) to perform the calculations and would likely only be applicable to larger AOCs. A variance pursuant to the Technical Rule is required for the use of compliance options other than the 75th percentile requirement, which may result in Department review of this component of the document.

As an example of a potential option, the 95th percent upper confidence limit (95th UCL) of the sample distribution for each contaminant in the receiving AOC can be calculated for use as the receiving AOC compliance criterion instead of the 75th percentile. This can be calculated using USEPA's ProUCL software (http://www.epa.gov/osp/hstl/tsc/software.htm), or other commercially available statistical software, to generate the 95th UCL of the sample distribution for each contaminant in the receiving AOC. The maximum concentration for each contaminant in the donor material is compared to the 95th UCL for each contaminant in the receiving AOC to determine whether the alternative fill is acceptable for placement. When the 95th UCL is greater than the maximum contaminant concentration for the receiving AOC, then the maximum contaminant concentration is used as the compliance criterion, not the 95th UCL. However, if this occurs, the investigator should evaluate the need for additional sample analyses, particularly for contaminants with a wide spread between the lower and higher contaminant concentrations, to augment the existing data to be more representative of the contamination, and the statistical analyses rerun with the new, larger dataset. The concern is that when the 95th UCL exceeds the maximum concentration for a given contaminant, the data may be insufficient to generate a truly valid 95th UCL and is likely due to the limited sampling.

4.5 Sampling at the Donor Site Area of Concern

To determine if proposed alternative fill placement is appropriate, contaminant data for the proposed fill at the donor site must be evaluated. The overall objective is that the potential alternative fill be thoroughly understood as to uniformity as well as the types and concentrations of contaminants. The sampling protocol is to be applied by collecting discrete samples from each source of donor material. **Donor source locations may include in-state and out-of-state sources of potential alternative fill.**

The sampling frequencies are determined by volume and are independent for each source of donor material. For example, if 1,000 cubic yards of contaminated soil is obtained from each of two different sources (e.g. two different AOCs), then the 1,000 cubic yard sampling frequency would be applied to each 1,000 cubic yards. The sampling frequency for 2,000 cubic yards would not be applicable, even though the total volume is 2,000 cubic yards. The sampling frequencies need to account for the depths of the donor material to be removed. If one area of donor fill will be excavated to more than one depth (e.g., three feet in one part and six feet in the

other part), then the samples must be distributed accordingly at multiple depths to be representative of the full depth of each cut.

Sampling is not required where sufficient data are available to adequately characterize the donor material being proposed for use. Typically the source of such data would be a completed RI. If the investigator has determined that the available data are not representative, not of acceptable quality, or from an insufficient number of samples, then additional sampling is warranted and should be biased towards the worst-case material where possible. In certain cases, the location of the most contaminated area may not be known, or alternatively, the contamination could be of uniform distribution. In these cases, a grid pattern of sampling should be utilized. If the contamination distribution is known, then the worst-case material should be sampled first as defined by the available data and/or information from the PA/site review as described below in Section 4.5.2. The consequence of this is that the highest rate of sampling is applied to the area of expected greatest contamination. Additional samples (dictated by the volume proposed for use) are distributed pro rata in the remaining area in order of expected decreasing contamination.

The sampling of the proposed donor material should be based on a systematic approach whereby the investigator will have assurance that the results accurately represent the fill. When remedial investigation data are not available, a series of field screened, discrete grab samples should be collected, biased to areas that may indicate the highest contaminant concentration. For undisturbed material, collect samples at the surface and at depth to ensure that the samples are representative of the total volume of material that may be used as alternative fill. Where biased sampling is not necessary or only a few biased samples are needed, the investigator should use grid-based, random sampling procedures using accepted USEPA guidance or other statistically appropriate references (e.g., Gilbert 1987). Where a large stockpile of proposed alternative fill has already been staged and can be maintained for use on a specific project, then the sampling should be statistically designed to collect representative samples from both the surface and interior of the stockpile. Very large stockpiles may need regrading to smaller sizes to allow for practical physical access for sampling.

4.5.1 Composite Sampling

Although existing discrete sample data are strongly preferred, in some cases existing laboratory data from composite samples may be utilized for the characterization of proposed alternative fill. The investigator should evaluate the representativeness of the composite data in characterizing the proposed alternative fill. In general, the fewer the number of samples in a composite, the more representative the composite data will be. The use of composite sample data constitutes a variance from the typically required use of discrete samples as a compliance mechanism, and requires justification by the investigator. The following are examples of when composite sample data may be considered if obtained during the site review:

- To establish a reduced sampling frequency in accordance with Section 4.5.2 below.
- For dredged material (DM) data obtained from the Department's Office of Dredging and Sediment Technology (ODST). For additional information, see Section 4.10 below.
- In lieu of some of the recommended discrete sampling data, particularly where very large quantities (i.e., greater than 10,000 cubic yards) of relatively homogeneous fill material will be used.

Because of VOC losses during homogenization, composite samples are not acceptable for VOC characterization as specified by the Department's Field Sampling Procedures Manual (FSPM, August 2005). Discrete samples for VOC analysis can be collected from one of the sub-samples used for compositing, which should be biased to the highest field screening results, odors, and/or other indicators of VOC contamination.

4.5.2 Sampling Frequency Modifications

The sampling frequencies to be used to establish the characteristics of potential donor material are summarized in Table 1. There are two sampling frequencies listed in Table 1 – (1) Default Sampling and (2) Reduced Sampling. In general, the default sampling is used for donor material with little or no prior data, and the reduced sampling frequency is utilized where there has been some prior assessment of the fill source (e.g., site review, existing data). **Further reductions beyond the reduced sampling frequency in Table 1 are permitted and would need appropriate justification in the next key document submission, but not Department pre-approval.** These further reductions would be based upon an evaluation of the source material consistent with the concepts in this guidance. Conversely, depending upon the site conditions and heterogeneity of the donor material, the investigator may elect to conduct additional sampling beyond that outlined in Table 1.

Table 1: Sampling Frequency Guide for Alternative Fill

Proposed Volume	Default Sampling Scheme without justification	Reduced Sampling Scheme with justification
(Cubic Yards)	(Samples)	(Samples)
0 to 20	1	1
20.1 to 40	2	2
40.1 to 60	3	2
60.1 to 80	4	2
80.1 to 100	5	2
100.1 to 200	6	3
200.1 to 300	7	3
300.1 to 400	8	4
400.1 to 500	9	4
500.1 to 600	10	5
600.1 to 700	11	5
700.1 to 800	12	6
800.1 to 900	13	6
900.1 to 1,000	14	7
1,000.1 to 2,000	15	8
2,000.1 to 3,000	16	9
3,000.1 to 4,000	17	10
4,000.1 to 5,000	18	11
5,000.1 to 6,000	19	12
6,000.1 to 7,000	20	13
7,000.1 to 8,000	21	14
8,000.1 to 9,000	22	15
9,000.1 to 10,000	23	16
10,000.1 to 11,000 *	24	17

*With volumes greater than 10,000 cubic yards, the sampling rate is 1 per additional 1,000 cubic yards. The sampling frequency may be reduced with appropriate justification, and does not require Department pre-approval. This includes deviation from the default or reduced sampling frequencies.

The sampling frequencies in Table 1 may be reduced based upon: (1) an understanding of the donor site's current and historical use and/or (2) reliable SI/RI data as discussed below:

- An evaluation of the historical operations and hazardous substances used at a donor site by review of a Preliminary Assessment (PA) or other "Site Review" where a PA is not required at a donor site. The PA or Site Review can be used to assess the likely types and concentrations of hazardous substances that may be present in site soils – whether from natural or anthropogenic sources. For a Site Review, the LSRP should evaluate historical site use, perform a historical aerial photograph review, and review other site historical information as typically performed for a PA. Potential sources of useful information may include (1) listings of known contaminated sites, (2) NJ-GeoWeb/-MapNJ interactive mapping on the Department's GIS, (3) SI/RI data from nearby sites available through Open Public Records Act (OPRA) reviews, and/or (4) a visual inspection of the donor site for evidence of contamination or AOCs.
- Where reliable analytical data from an SI or RI are available for the donor material, these data may be used in lieu of, or to supplement, sampling and analyses using this technical guidance. The investigator is reminded to assess whether the SI/RI data accurately reflects the donor material (e.g., was it taken from a similar location/soil type) and current site conditions (e.g., likelihood of additional releases or chemical degradation). If the fill is uniform in terms of similar contaminant concentrations and physical characteristics, some further reduction in sampling and analyses may be warranted. This reduction may include testing for a broad suite of analytes on some samples and a reduced suite of analytes on others. Conversely, linear projects such as highway and utility work are less likely to be uniform sites – particularly if they pass through heterogeneous soil types and areas with a variety of commercial/industrial uses – and may be less suitable for a reduction in sampling.
- It is expected that donor material will be analyzed for the Target Analyte List (TAL) / Target Compound List (TCL) plus 30 and Extractable Petroleum Hydrocarbons (EPH) unless a targeted suite of contaminants can be justified. Where hexavalent chromium may be a contaminant of concern or total chromium concentrations are elevated, analyze the samples for hexavalent chromium.
- The sampling and analyses may be modified for all, or just a subset of, the fill characterization samples based upon the PA/site review and/or existing sampling data. For example, if there is prior data that demonstrates consistent VOC concentrations, further VOC testing could be reduced or eliminated – especially if field screening is conducted during sampling using a properly calibrated direct reading instrument.
- The Department does not require analysis for asbestos, dioxins, or radionuclides, but the potential presence of these contaminants is discussed further later in this section of the guidance.
- To ensure geophysical compatibility of receiving AOC and donor material, other analyses may also be needed, such as pH and clay content.

If the investigator determines that existing data (this includes data from ODST) and/or other information accurately and reliably reflects the source material (e.g., it was taken from a similar location/soil) and current site conditions, the investigator may rely on this data, provided:

- The analyses were performed by a laboratory certified for those methods by the Department.

- The data meet the data quality requirements in the Technical Rule and any associated Department technical guidance for QA/QC reviews.
- A detailed description of the sample collection methodologies for the data is obtained for the donor material.
- The donor material was not moved to another property for storage.

4.6 Impact to Ground Water and Surface Water Evaluation for Off-Site Sources

Pursuant to the Technical Rule, the proposed remedial action for a given AOC must address all ground water and surface water issues whether from the existing contamination at the receiving AOC or from the proposed alternative fill. The proposed alternative fill's potential to increase or result in ground water contamination should be evaluated prior to placement. The finding of no ground water contamination at the donor AOC cannot be used as the sole basis for assuming no impact to ground water at the receiving AOC, because excavated donor material may have a different impact on ground water than in-situ donor material.

4.6.1 Donor Material Below IGW Levels of Concern

If the contaminant levels in the donor material are **below** the greater of the default impact to ground water (IGW) screening levels or the AOC-specific IGW Soil Remediation Standard (SRS) values at the receiving site (as determined by Synthetic Precipitation and Leachate Procedure (SPLP) results), then no further IGW evaluation is needed of the donor material. The material may be used as alternative fill.

4.6.2 Donor Material Above IGW Levels of Concern

If the contaminant concentrations in the donor material are **above** the default IGW screening levels, then an evaluation of the potential for IGW of the donor fill material should include the collection and analysis of at least 3 samples per donor AOC for SPLP testing using the Department's SPLP guidance for IGW at http://www.nj.gov/dep/srp/guidance/rs/. These samples of donor material (selected from RI and/or Table 1 samples) should be of the highest contaminant concentrations and representative of the different characteristics of the donor material that would affect the mobility of any given contaminant into ground water (e.g., pH, soil texture, composition of fill).

Note: Exceedances of IGW default criteria for metals that have only secondary ground water quality standards do not need SPLP testing as described in the Department's IGW Frequently Asked Questions at http://www.nj.gov/dep/srp/guidance/rs/igw_faq.pdf, and such exceedances do not apply to the IGW evaluation of the donor material.

Evaluate SPLP results as follows:

- If SPLP results indicate no potential impact to ground water using the Departments SPLP guidance for IGW, then the IGW evaluation is complete and the donor material can be used as alternative fill.
- If SPLP results indicate a potential impact to ground water, then the donor material should not be used as alternative fill unless the importation of this donor material will not impact the type, effectiveness, or feasibility of the ground water remedy at the receiving site and will not impact adjacent surface water.

4.6.3 VOC Contamination

Because the SPLP guidance is not appropriate for volatile organic contaminants (VOCs), donor material with contaminant concentrations that are above the default IGW screening levels may not be used as alternative fill unless the VOC concentrations in the donor material meet the like-on-like requirement, the 75th percentile requirement, would have no vapor intrusion impact pursuant to the Department's Vapor Intrusion Guidance, and the importation of this alternative fill will not impact the type, effectiveness, or feasibility of the ground water remedy at the receiving site and will not impact on-site or adjacent surface water.

4.6.4 Other Conditions

All other conditions, exclusions, and restrictions applicable to the use of alternative fill in Section 4 still apply. In all cases, the final remedial action must be protective of human health and the environment.

4.7 Resource Conservation and Recovery Act (RCRA) Waste Exclusion

Only nonhazardous material may be used at a receiving AOC; the proposed alternative fill cannot be a listed or characteristic hazardous waste as determined pursuant to N.J.A.C. 7:26G and 40 C.F.R. Part 261.

4.8 Dioxin Exclusion

Materials that contain dioxin (expressed as Toxicity Equivalent Quotients (TEQs) for 2, 3, 7, 8 TCDD) at concentrations above the Department's action level or remediation standard in effect at the time the donor material is evaluated may not be used as alternative fill at a receiving AOC.

4.9 Polychlorinated Biphenyls Restriction

Use of polychlorinated biphenyl (PCB) containing materials must comply with the Toxic Substance Control Act (TSCA) and associated regulations, 40 CFR 761 et seq., and guidance found at http://www.epa.gov/epawaste/hazard/tsd/pcbs/index.htm. In addition to TSCA compliance, use of PCB-contaminated material must also comply with this technical guidance, the Technical Rule, and the Soil Remediation Standards.

4.10 Sediment

Alternative fill proposed for use at a SRP site cannot impact sediment quality at the receiving AOC in a way that is inconsistent with the proposed remedial action. In other words, the proposed remedial action for the receiving AOC must address all sediment issues whether from the existing contamination or the placement of the alternative fill.

Sediment, inclusive of dredged material and processed dredged material (PDM), being considered for alternative fill at a receiving AOC is evaluated the same as other potential alternative fill sources. If sediments that are not impacted by known, specific contaminant discharges are relatively homogeneous and are hydraulically dredged, then such materials are candidates for reduced sampling frequency. Data for evaluation pursuant to this technical

guidance may be obtained from the completion of a SI/RI and/or from the Department's Office of Dredging and Sediment Technology (ODST). Collection and analysis of additional samples may be needed to supplement data obtained from ODST that may not meet the sampling frequencies, analyses, or discrete sampling of this technical guidance.

A concern about processed dredged materials is that the additives used may also be a source of contamination that needs to be assessed, in addition to whatever contaminants are present in the sediment. If bench-scale data for PDM is obtained from ODST, then the investigator should evaluate the data to determine if it is sufficient to meet this technical guidance. If the investigator determines the bench-scale data is either nonrepresentative or the sample frequency is inadequate, or to ensure compliance with the applicable remediation standards, then discrete samples of the actual PDM to be placed at the receiving AOC may need to be collected and analyzed.

The investigator needs to be aware that the supplier (whether an on-site or off-site person or entity) of sediment as alternative fill, must have an Acceptable Use Determination (AUD) from ODST. The receiving AOC does not require an AUD, but a final remedial action work plan for the receiving site is required by ODST.

4.11 Historic Fill

Historic fill as defined by N.J.A.C. 7:26E-1.8 may be used as alternative fill at a receiving AOC under this technical guidance. Historic fill that is non-soil as defined in this technical guidance requires a CAO/BUD. Evaluate the sampling data for all donor historic fill in accordance with section 4.5 of this technical guidance to determine if the material should be allowed to be placed at the receiving AOC. Because of the limited amount of data usually associated with historic fill, additional sampling may be needed in accordance with section 4.5.2 of this technical guidance. The donor historic fill data is then used for the like-on-like evaluation (Section 4.2) and the 75th percentile evaluation (Section 4.3).

Evaluation of impact to ground water (IGW) should follow Section 4.6 of this technical guidance. If ground water in the receiving AOC is uncontaminated and ground water in the donor AOC is contaminated from the historic fill, then SPLP testing is not necessary as it is likely that the donor historic fill may impact ground water at the receiving AOC, so the donor historic fill should not be used as alternative fill at the receiving AOC. However, if the donor historic fill will still be considered for use, then conduct SPLP analyses of the material in accordance with Section 4.6. If the SPLP results indicate a potential impact to ground water, then the donor material should not be used as alternative fill unless the importation of this donor material will not impact the type, effectiveness, or feasibility of the ground water remedy at the receiving site and will not impact adjacent surface water.

A special case of historic fill relocation is applicable to Brownfield redevelopment sites. Where a Brownfield redevelopment includes multiple contiguous properties containing historic fill, see Section 5.2 of this technical guidance. Where the donor historic fill is from a non-contiguous property, then follow this section this technical guidance.

4.12 Recycled Concrete

Use of recycled concrete as alternative fill is subject to this technical guidance and the recycled concrete guidance from the Department's Solid and Hazardous Waste Management Program (SHWMP), http://www.state.nj.us/dep/dshw/resource/guidance/concrete%20demo%201210.pdf. Analytical testing conducted using Sections V or VI of the recycled concrete guidance may be substituted to fulfill some or all of the sampling and analytical requirements of this technical guidance, if those results are determined to be equivalent by the investigator overseeing the remediation of the receiving AOC. Buildings or structures should be sampled prior to demolition so samples can be biased appropriately. However, because the recycled concrete guidance does not incorporate IGW considerations, placement of this material is to minimize the potential for contamination of ground water. If there are concerns about the potential for IGW, the investigator has the discretion to require additional sampling (see Section 4.6) to address these concerns appropriately. Recycled concrete for use as alternative fill will need a CAO/BUD from the SHWMP, pursuant to N.J.A.C. 7:26-1.7(g) and as discussed in the guidance at http://www.state.nj.us/dep/dshw/rrtp/bud.htm.

4.13 Radiation Exclusion

Donor material with radiation or radionuclide contamination above natural background should not be used as alternative fill. Should a potential for radionuclide contamination be indicated in the PA or site review, then field screening with a handheld radiation/gamma meter should occur of the donor material. If radiation is found to be present above background levels, donor material should not be used as alternative fill.

The following industries are recognized by the Department's Bureau of Environmental Radiation (BER) as having the potential to have technologically enhanced naturally-occurring radioactive material (TENORM) contamination: radioactive materials licensee or a former licensee, paper and pulp facilities; ceramics manufacturing; paint and pigment manufacturing; metal foundry facilities; optical glass facilities; fertilizer plants; aircraft manufactures; munitions and armament manufactures; scrap metal recycling; zirconium manufacturing; oil and gas production, refining, and storage; electricity generation; cement and concrete product manufacture; radiopharmaceutical manufacturing; and geothermal energy production.

If the PA or site review indicates that the donor material may be from one of these industries or field screening results are above background, and the material will still be considered as a potential source of alternative fill, contact BER for sample collection and analytical requirements. If the results confirm the donor material contains radionuclides, do not use this material as alternative fill.

4.14 Asbestos-Containing Material Exclusion

Because the Department does not have standards or criteria for asbestos (i.e., naturally occurring or asbestos-containing material (ACM, i.e., material containing >1% asbestos)) in soil or nonsoil material, donor material containing or potentially containing asbestos may not be used as alternative fill. The presence or potential presence of asbestos in proposed alternative fill may be determined through a PA, other site review, on-site visual observations, and/or sample collection and analysis. Properties where buildings have been demolished are of particular concern, unless

acceptable documentation exists and is reviewed to determine that ACM has been removed and properly disposed in accordance with all federal, state, and local laws, rules, regulations, and guidance. It is important to note that asbestos measured as ≤1% in samples of potential donor material (while historically used by the Department on a site-specific basis to indicate that asbestos did not require remediation) may not be a reliable indicator of the absence of asbestos or that no hazard or risk from asbestos is present from the use of such material as alternative fill. For more background on this issue, the investigator can consult the USEPA's *Framework for Investigating Asbestos-Contaminated Superfund Sites* (USEPA 2008) and 40 CFR Part M, *National Emission Standard for Asbestos*.

4.15 Engineering and Institutional Controls

Sites that import alternative fill usually include engineering and institutional controls as potential components of the remedy where these components are necessary to achieve protection of public health and the environment through mitigation of exposure. Examples of engineering controls include:

- caps;
- barrier walls;
- gas control and leachate control systems; and
- vapor intrusion barriers or mitigation systems.

Where barrier walls are employed, they should be installed prior to placement of alternative fill where practicable and consistent with good engineering practice. If the placement of alternative fill is likely to damage the barrier wall, the installation of the barrier wall may need to be conducted after the alternative fill has been emplaced.

Specific requirements for (1) establishing and maintaining engineering and institutional controls, including requirements for Deed Notices; (2) long-term operation, maintenance, and monitoring program; and (3) Remedial Action Permits are detailed the Technical Rule.

In the event that placement of alternative fill as part of a site remedy leads to unforeseen off-site migration of contamination, an increase in extent of contaminated area, and/or adverse impacts to human receptors or sensitive ecological receptors (i.e., environmentally sensitive natural resources), construction of appropriate remedial actions is to be initiated as soon as is practicable to address these problems.

4.16 Tracking and Record Keeping

With all incoming shipments of alternative fill, include fully executed bills of lading or manifests that clearly document that the incoming fill is from the approved donor site with copies of these forms provided to the Department with the Remedial Action Report. It is important that the Remedial Action Report (including the deed notice and Remedial Action Permit) and biennial certifications contain all documentation demonstrating compliance with this technical guidance, including the volume, thickness (with surveyed elevations of existing grade and top of alternative fill), and area(s) where alternative fill has been placed (postgrading and consolidation) on the site or AOC.

5 ALTERNATIVE FILL FROM ON-SITE SOURCES

5.1 AOC Data Evaluation

Both AOCs, donor and receiving, must be delineated, and the physical properties of the soil must be compatible. Ideally, contaminant concentrations should be similar, but as long as the remediation requirement of Technical Rule Subchapter 5 for a remedial action are met, it will be acceptable to move higher contaminant concentrations to an AOC with lower contaminant concentrations. Data from a completed remedial investigation for delineation are acceptable to make this evaluation. If such data are not available, they must be obtained by sampling and delineation for each AOC (donor and receiving location) as per the Technical Rule.

5.2 Exceptions to Like-on-Like and 75th Percentile Requirements

For on-site movement of contaminated soil, consolidation is encouraged as long as it enhances the final remedial action. The Department will allow exceptions to the like-on-like and 75th percentile requirements in this technical guidance and the sampling frequencies in Table 1 in this technical guidance under the following conditions:

- A clean area or clean areas that meet both the residential and impact to ground water soil remediation standards are created or enlarged. Token creation or enlargement of a clean area does not qualify for these exceptions. A token area is suggested to be one that is less than 10% of the receiving AOC, but the size of the receiving AOC and other site-specific conditions (such as the final use of the clean area) need to be factored into this determination.
- Areas of concern **with the same** contaminants can be consolidated as long as the total areal extent is reduced for those contaminants. The 75th percentile requirement is suspended in this case. Placement or encroachment on clean areas will still be prohibited.
- The consolidation will not result in or increase contamination of groundwater at the receiving AOC.
- The consolidation will not result in the mixing of incompatible contaminants or creation of a vapor intrusion pathway at the receiving AOC.

A **variance** pursuant to the Technical Rule is required for the use of the above exceptions to the like-on-like and 75th percentile requirements, which may result in Department review of this component of the document. **All other conditions, exclusions, and restrictions applicable to the use of alternative fill (Section 4) still apply.** In all cases, the final remedial action must be protective of human health and the environment.

5.2 Exceptions for Historic Fill at Brownfield Redevelopment Sites

A special case of historic fill relocation is applicable to Brownfield redevelopment sites. Where a Brownfield redevelopment includes multiple contiguous properties containing historic fill, and the historic fill has been sampled and analyzed in accordance with the Technical Rule, the Department's Historic Fill Guidance, and this technical guidance, relocation of the historic fill within the development can be allowed across property lines. On-site relocation of historic fill can be performed provided:

- It will not result in an increase in ground water contamination;

- Placement of fill is protective of human health and the environment; and
- All historic fill at the site is remediated in accordance with the Technical Rule.

If these conditions are met, then the like-on-like and 75th percentile compliance requirements do not apply, but the remainder of section 4 still applies.

5.3 Tracking and Record Keeping

It is important that the Remedial Action Report (including the deed notice and the remedial action permit for soil) and biennial certifications contain all documentation demonstrating compliance with this technical guidance, including documentation of the volume, thickness (with surveyed elevations for existing grade and top of alternative fill), and area(s) where alternative fill has been moved from and placed (postgrading and consolidation) on the site or AOC.

6 CLEAN FILL

6.1 Purpose

This applies to both off-site and on-site sources of clean fill. The overall objective is that the proposed clean fill be thoroughly understood as to the types and concentrations of contaminants, and to homogeneity, so contaminated fill is not unintentionally placed as clean fill that would result in additional remediation. Clean fill is generally required for the implementation of presumptive remedies to be protective of sensitive receptors.

The guidance in this section applies strictly to the use of clean fill at SRP sites. The SRP does not regulate or approve products at their point of manufacture when they are not destined to be part of the remediation at an SRP site. The use of clean fill at non-SRP sites is beyond the scope and authority of the SRP regulations. Because the SRP remediates sites where a discharge has occurred, this technical guidance is not designed to address or be applied to other situations.

6.2 Sampling the Material Proposed for Clean Fill

Donor material proposed for use as clean fill on a SRP site should be thoroughly evaluated through a review of the source history and operations to develop a sampling and analysis strategy in accordance with the Technical Rule, this technical guidance, and the Department's *Field Sampling Procedures Manual (*FSPM). Many locations generate clean fill and topsoil for sale based on a blending process, often including mulched, composted organic materials (e.g., grass clipping or leaves). Other sources of clean fill can include a quarry to provide bank-run sand and gravel, construction projects where a net cut is needed or the topsoil is stripped and sold prior to construction, or contaminated material that has been treated so it meets the definition of clean fill. Therefore, there are different concerns that should be addressed in the evaluation, sampling, and analysis of each source type. Source locations may include in-state and out-of-state sources of potential clean fill.

Sampling of the proposed clean fill should be based on a systematic approach whereby the investigator will have assurance that the results accurately represent the clean fill characteristics. Typically, a series of field screened, discrete grab samples will be collected, biased to areas that may indicate the proposed clean fill is actually contaminated. Where biased sampling is not necessary or only a few biased samples are needed, the investigator should use grid-based, random sampling procedures using accepted USEPA guidance or other statistically appropriate references (e.g., Gilbert 1987). For undisturbed in-situ material, collect samples at the surface and at depth to ensure that the samples are representative of the total volume of material that may be used as clean fill. Where a large stockpile of proposed clean fill has already been staged and can be maintained for use on a specific project, then the sampling should be statistically designed to collect representative samples from the surface and interior of the stockpile. Very large stockpiles may need regrading to smaller sizes to allow for practical physical access for sampling.

6.2.1 Composite Sampling

Although discrete sampling is strongly preferred, in some cases laboratory data from composite sampling may be utilized for the characterization of a proposed clean fill. The investigator

should evaluate the representativeness of the composite data in characterizing the proposed fill. In general, the fewer the number of samples in a composite, the more representative the composite data will be. The use of composite sampling data constitutes a variance from the typically required use of discrete sampling as a compliance mechanism, and requires justification by the investigator, particularly for the number of composite samples collected and the number of discrete samples included in each composite sample. The sampling frequencies need to account for the depths of the donor material to be removed. If one area of donor material will be excavated to more than one depth (e.g., three feet in one part and six feet in the other part), then the samples must be distributed accordingly at multiple depths to be representative of the full depth of each cut.

Some examples of where composite sampling may be considered for use are:

- If obtained during the site review and determined to be reliable to establish a reduced sampling frequency in accordance with Section 6.1.2, below;
- For dredged material (DM) data obtained from the Department's Office of Dredging and Sediment Technology (ODST). For additional information, see Section 4.10; and
- In lieu of some of the discrete sampling data, particularly where very large quantities (greater than 10,000 cubic yards) of relatively homogeneous fill material will be obtained.

Because of VOC losses during homogenization, composite samples are not acceptable for VOC characterization, as specified by the Department's Field Sampling Procedures Manual (FSPM, August 2005). Discrete samples for VOC analysis can be collected from one of the sub-samples used for compositing, which should be biased to the highest field screening results, odors, and/or other indicators of VOC contamination.

6.2.2 Sampling Frequency Modifications

The sampling frequencies that should be used to establish the characteristics of a potential clean fill source are summarized in Table 2. Note that there are two sampling frequencies listed in Table 2 – Default Sampling and Reduced Sampling. In general, the default sampling is used for a source site with little or no prior data, and the reduced sampling frequency is used where there has been some prior assessment of the fill source (e.g., site review, prior sampling). Further reductions in sampling frequency are permitted and would need appropriate justification in the next key document submission, but not Department pre-approval. These further reductions would be based upon an analysis of the source material consistent with the concepts in this guidance. Depending upon the site conditions and variability of the fill, the investigator may conduct additional sampling beyond that outlined in Table 2.

Table 2: Sampling Frequency Guide for Clean Fill

Proposed Volume	Default Sampling Scheme without justification	Reduced Sampling Scheme with justification
(Cubic Yards)	(Samples)	(Samples)
0 to 20	1	1
20.1 to 40	2	2
40.1 to 60	3	2
60.1 to 80	4	2
80.1 to 100	5	2
100.1 to 200	6	3
200.1 to 300	7	3
300.1 to 400	8	4
400.1 to 500	9	4
500.1 to 600	10	5
600.1 to 700	11	5
700.1 to 800	12	6
800.1 to 900	13	6
900.1 to 1,000	14	7
1,000.1 to 2,000	15	8
2,000.1 to 3,000	16	9
3,000.1 to 4,000	17	10
4,000.1 to 5,000	18	11
5,000.1 to 6,000	19	12
6,000.1 to 7,000	20	13
7,000.1 to 8,000	21	14
8,000.1 to 9,000	22	15
9,000.1 to 10,000	23	16
10,000.1 to 11,000 *	24	17

*With volumes greater than 10,000 cubic yards, the sampling rate is 1 per additional 1,000 cubic yards. The sampling frequency may be reduced with appropriate justification and does not require Department pre-approval. This includes deviation from the default or reduced sampling frequencies.

In most cases, modifications in sampling frequencies will be based upon: (1) an understanding of the donor site's current and historical use and/or (2) reliable sampling data as discussed below.

- Because a donor site is presumed to be "clean," information from a Preliminary Assessment (PA) will not usually be available. Therefore, a Site Review is conducted to evaluate the donor site's current and historical use, such as historical operations and hazardous substance use. The Site Review can be used to assess the likely types and concentrations of hazardous substances that may be present in site soils – whether from natural or anthropogenic sources. For a Site Review, the investigator should evaluate historical site use from an analysis of a historical aerial photograph review and other site historical information as typically performed for a PA. Other potential sources of useful information may include listings of known contaminated sites and Classification Exception Areas (CEA) on the Department's I-Map system, characterization data from nearby sites available through Open Public Records Act (OPRA) reviews, and a visual inspection of the donor site for evidence of chemical releases or AOCs.
- Where reliable analytical data is available for the donor site, these data may be used in lieu of, or to supplement, the sampling discussed in this section of the guidance. Unlike alternative fill, data for clean fill will typically not have been generated as part of a SI or RI. The investigator is reminded to assess whether the data accurately reflects the source material (e.g., was it taken from a similar location/soil) and current site conditions (e.g., likelihood of new releases, change in site activities or proximity to impacted properties). As with alternative fill, it is appropriate to consider the likely uniformity of the source material. If the fill is uniform in terms of similar contaminant concentrations and physical characteristics, some further reduction in frequency may be warranted. This reduction may include testing for a broad suite of analytes on some samples and a reduced suite of analytes on others. Conversely, linear projects such as highway and utility work are less likely to be uniform sites – particularly if they pass through heterogeneous geologic formations and areas with a variety of commercial/industrial uses – and may be less suitable for a reduction in sampling.
- It is expected that clean fill will be analyzed for the Target Analyte List (TAL)/Target Compound List (TCL) and Extractable Petroleum Hydrocarbons (EPH). Analysis for hexavalent chromium should not be needed unless the source of the proposed fill is from an urban area or is not from a virgin source, such as a commercial rock quarry.
- This analytical protocol may be modified for all, or just a subset of, the clean fill samples based upon the site review and/or prior sampling data as discussed below.
- The Department does not require analysis for asbestos, dioxins, or radionuclides, but the potential presence of these contaminants is discussed further later in this section of the guidance.
- To ensure geophysical compatibility of destination and donor site material, other analyses may also be needed, such as pH and clay content.

If the investigator determines that pre-existing data (this includes data from ODST) and/or other information accurately and reliably reflects the source material (e.g., it was taken from a similar location/soil material) and current site conditions, the investigator may rely on this data, provided:

- The analyses were performed by a laboratory certified for those methods by the Department;

- The data meet the data quality requirements in the Technical Rule and any associated Department technical guidance for QA/QC reviews; and
- A detailed description of the sample collection methodologies is provided for the source site.
- The material was not moved to another property for storage.

For example, if there is reliable pre-existing data that demonstrates consistent VOC concentrations, further VOC testing could be reduced or eliminated – especially if field screening using a PID is conducted during sampling.

6.3 Clean Fill Testing Exceptions

Fines from rock (e.g., crushed rock, gravel, dense graded aggregate, or other such rock material) mined or excavated from undisturbed geologic formations requires one sample of the fines for analysis as long as the rock is obtained from a quarry/mine that has not been located on or impacted by other contaminant sources, based on a preliminary assessment or other site review. Existing data provided by the quarry/mine owner/operator is acceptable for use as long as there is at least one sample for each calendar year of quarry/mine operation, and the Investigator determines that these data are reliable. For other sources of rock from undisturbed geologic formations, at least one (1) sample of the fines must be collected and analyzed with additional samples collected and analyzed as needed based on a preliminary assessment or other site review and the laboratory results from the initial sample of the fines.

Sand or soil mined or excavated from undisturbed geologic formations requires one sample for analysis as long as the sand or soil is obtained from a commercial source or quarry that has not been located on or impacted by other contaminant sources based on a preliminary assessment or other site review. This exception does not apply to manufactured soil, such as the mixing of composted leaves with inorganic soil, or blended soil, which is to be sampled for analysis using the sampling frequency table (Table 2) in this guidance. These data provide appropriate documentation that the fines meet the applicable remediation standards or criteria pursuant to the definition of clean fill at N.J.A.C. 7:26E-1.8. Existing data provided by the quarry/mine owner/operator is acceptable for use as long as there is at least one sample for each calendar year of quarry/mine operation, and the Investigator determines that these data are reliable. For other sources of sand from undisturbed geologic formations, at least one (1) sample of the sand or soil must be collected and analyzed with additional samples collected and analyzed as needed based on a preliminary assessment or other site review and the laboratory results from the initial sample of the sand or soil.

If there are any potential questions or concerns that the clean fill (i.e., rock, sand, or soil) may not meet the applicable remediation standards or criteria, then sample for analysis using the sampling frequency table (Table 2) and section 6.1 in this technical guidance.

6.4 Elevated Natural Background Consideration

Certain soils or geologic formations are known to contain naturally occurring elements or compounds that can exceed the Department's remediation standards or other criteria. Examples include the glauconitic "greensand" that contains arsenic (Tedrow, 2002) and certain igneous rock formations that contain radionuclides, such as the gneisses in the New Jersey Highlands that

release radon gas (http:/www.state.nj.us/dep/rpp/rms/rmsagree-1.htm). Fill from such natural sources may not be used as clean fill at SRP sites, unless the receiving AOC and the donor material are from the same natural geologic formation (e.g., both the receiving AOC and the donor material are greensand).

Should a potential for radiation or radionuclides exist or be indicated in the site review, then field screening with a handheld radiation/gamma meter should occur at the donor site. If radiation is found to be present above natural background levels, do not use as clean fill.

6.5 Asbestos-Containing Material Exclusion

Because the Department does not have standards or criteria for asbestos (i.e., naturally occurring or asbestos containing material (ACM, i.e., material containing >1% asbestos)) in soil or other soil-like material, fill from an off-site donor source containing or potentially containing asbestos may not be used as clean fill. The presence or potential presence of asbestos in fill may be determined through a preliminary assessment, other site review, on-site visual observations, or sample collection and analysis. Naturally occurring asbestos can be found in serpentine rock found in Hudson County (Speiser 1978) or in the Highlands of Sussex County (NJGS Geologic Report 15, 1986).

Properties where buildings have been demolished are of particular concern, unless acceptable documentation exists and is reviewed to determine that ACM has been removed and properly disposed in accordance with all federal, state, and local laws, rules, regulations, and guidance. It is important to note that asbestos measured as <1% in fill samples (while historically used by the Department on a site-specific basis to indicate that asbestos did not require remediation) may not be a reliable indicator of the absence of asbestos or that no hazard or risk from asbestos is present from the use of such material as fill. For more background on this issue, the investigator can consult the USEPA's *Framework for Investigating Asbestos-Contaminated Superfund Sites* (USEPA 2008) and 40 CFR Part M, *National Emission Standard for Asbestos*.

6.6 Impact to Ground Water Evaluation

An IGW evaluation should not be needed, as clean fill is expected to meet the default IGW soil screening levels. If the default IGW soil screening levels are exceeded, then an evaluation of the potential for IGW of the donor material should include the collection and analysis of at least three samples per donor AOC for SPLP testing using the Department's SPLP guidance for IGW at http://www.nj.gov/dep/srp/guidance/rs/. These samples should be of the highest contaminant concentrations and representative of the different characteristics of the donor material that would affect the mobility of any given contaminant into ground water (e.g., pH, soil texture, composition of fill. However, exceedances of default IGW soil screening levels for metals that have only secondary ground water quality standards (GWQS) do not need this SPLP evaluation.

Evaluate the SPLP results as follows:

- If the SPLP results indicate no potential IGW using the Departments SPLP guidance for IGW, then the IGW evaluation is complete and the donor material can be used as clean fill.

- If the SPLP results indicate a potential IGW, then the donor material should not be used as clean fill.

6.7 Resource Conservation and Recovery Act (RCRA) Waste Exclusion

Only nonhazardous clean fill may be used at a receiving AOC. Clean fill can be assumed to be nonhazardous because of its definition, so waste classification testing should not be needed. If there is any question whether a clean fill source may be hazardous, then this shall be determined pursuant to N.J.A.C. 7:26G and 40 C.F.R. 261.

6.8 Recycled Concrete

Use of concrete is subject to this technical guidance and the recycled concrete guidance established by the Department's Solid and Hazardous Waste Management Program found at http://www.state.nj.us/dep/dshw/resource/guidance/concrete%20demo%201210.pdf. Analytical testing conducted using Sections V or VI of the recycled concrete guidance may be substituted to fulfill some or all of the sampling and analytical requirements of this technical guidance, if those results are determined to be equivalent by the investigator overseeing the remediation of the receiving AOC. Buildings or structures should be sampled prior to demolition so samples can be biased appropriately. However, because the recycled concrete guidance does not incorporate IGW considerations, IGW must be evaluated using Section 6.5 of this technical guidance. Clean concrete that meets this technical guidance and the recycled concrete guidance requires a CAO/BUD from the SHWMP, pursuant to N.J.A.C. 7:26-1.7(g) and as discussed in guidance at http://www.state.nj.us/dep/dshw/rrtp/bud.htm.unless justification is provided otherwise.

6.9 Dioxin Exclusion

Materials that contain dioxin expressed as Toxicity Equivalent Quotients (TEQs) for 2, 3, 7, 8-TCDD at concentrations above the Department's action level or remediation standard in effect at the time the donor site material is evaluated shall not be used as clean fill at a receiving AOC.

6.10 Sediment

Sediment, inclusive of dredged material and process dredged material (PDM), being considered for placement at a SRP site as clean fill is subject to the same requirements as other clean fill sources. Based on the PA or site review, if sediments are from a source not known or suspected to be contaminated, and are relatively homogeneous, then such materials are candidates for reduced sampling frequency as described in Section 6.1.2 of this technical guidance. Data for evaluation pursuant to this technical guidance may be obtained from the completion of a site investigation/remedial investigation or from the Department's Office of Dredging and Sediment Technology (ODST). Collection and analysis of additional samples may be needed to supplement any data obtained from ODST that may not meet the sampling frequencies, analyses, or discrete sampling of this technical guidance.

A concern about processed dredged materials is that the additives used may also be a source of contamination that needs to be assessed. If bench-scale data for PDM is obtained from ODST, then the investigator should evaluate the data to determine if it is sufficient to meet the concepts of this technical guidance. If the investigator determines the bench scale data is either non-

representative, the sample frequency is inadequate, or the need to ensure compliance with the applicable remediation standards, then discrete samples of the actual PDM may need to be collected and analyzed.

The investigator needs to be aware that the supplier (whether an on-site or off-site person or entity) of sediment as clean fill, must have an Acceptable Use Determination (AUD) from the Department's Office of Dredging and Sediment Technology (ODST). The receiving SRP site does not require an AUD, but an approved remedial action work plan for the receiving site is required by ODST.

Clean fill proposed for use at a SRP site cannot impact sediment quality at the receiving AOC in a way that is inconsistent with the proposed remedial action. In other words, the proposed remedial action for the receiving AOC must address all sediment issues whether from the existing contamination or the placement of the clean fill.

6.11 Engineering Concerns

Sites that import soils or soil-like material (e.g., sediment) clean fill may include engineering and institutional controls, such as containment systems, as potential components of the remedy where these components are necessary to achieve protection of public health and the environment through mitigation of exposure. Examples of containment systems/engineering controls include:

- caps;
- barrier walls;
- gas control and leachate control systems; and
- vapor intrusion barriers or mitigation systems.

Where barrier walls are employed, they should be installed prior to placement of clean fill where practicable and consistent with good engineering practice. If the placement of clean fill is likely to damage the vertical barrier, the installation of the barrier wall may be conducted after the clean fill has been emplaced.

Specific requirements for establishing and maintaining engineering and institutional controls, including requirements for Deed Notices; long-term operation, maintenance, and monitoring program; and Remedial Action Permits are detailed at N.J.A.C. 7:26E-6.7 and -8.5. The Department has also established guidance for the preparation of Remedial Action Permits.

In the event that placement of clean fill as part of a site remedy leads to unforeseen off-site migration of fill and/or adverse impacts to human receptors or sensitive ecological receptors (i.e., environmentally sensitive natural resources), construction of appropriate engineering controls is to be initiated as soon as is practicable to correct these problems.

6.12 Tracking and Record Keeping

With all incoming shipments of clean fill for use at a SRP site, include fully executed bills of lading to document clearly that the incoming fill is from the approved donor site with copies of these forms provided to the Department with the Remedial Action Report (RAR). It is important

that the RAR (including the deed notice and the remedial action permit for soil) or biennial certifications contain all documentation demonstrating compliance with this guidance, including documentation of the volume, thickness (with surveyed elevations of final subgrade and top of clean fill), and area(s) where clean fill has been placed (postgrading and consolidation) on the site or AOC.

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APPENDICES

APPENDIX A

DETERMINING THE 75TH PERCENTILE

Determining the 75th percentile

The determination of the 75th percentile of a population can be done in various ways; however, the SRP would prefer to avoid confusion and make the process as easy and efficient as possible. Consequently, the SRP has elected to use the methodology found in the Excel software program because Excel is so widely available and is already in use by the regulated community.

The steps to use Excel to calculate the 75th percentile of a data set follow:

(1) Input or import the data points into a column within a blank Excel spreadsheet.
(2) Type "=PERCENTILE(" into an empty cell.
(3) Continuing in this same cell, enter the address of the data using the array format (e.g. A1:A26 for data in column A occupying rows 1 through 26).
(4) Still continuing in the same cell, type in a "," followed by "0.75)" and then hit "Enter."
(5) The 75th percentile of the data will appear in the formerly empty cell.

The following example is provided for illustrative purposes.

75th percentile example calculation for a given contaminant

Sample No.	Concentration in mg/kg
1	2
2	5
3	10
4	19
5	21
6	25
7	51
8	612
The 75th percentile is	32

If you do not have access to Excel, the following is the calculation that Excel employs.

1. ($V_{.75}$) is the 75th percentile of an ascending ordered dataset containing N values which are (V_1 through V_N)
2. If (n) = (((0.75) (N-1)) + 1) and
3. Assuming (n) = (k + d) where k is the integer component and d is the decimal component
4. Then ($V_{.75}$) = (V_k) + ((d) (V_{k+1} - V_k)) for $1 < n < N$

Discussion of the Selection of the 75th Percentile

The selection of the 75th percentile is based on two considerations. First, the 75th percentile is a robust boundary beyond which extreme values or outliers in a population occur irrespective of population distribution type. As such, the 75th percentile is a conservative upper bound of the central distribution of a sample population. Second, the Department does not want to institute new or additional sampling requirements, but rather opted to rely mainly on the existing data provided by the remedial investigation of an AOC, where possible. There is a recognition that the remedial investigation sampling would typically be limited relative to statistical requirements for sample size and sampling design. Therefore, the Department chose to be conservative in selecting the upper limit of the concentration of contaminants that are allowed to be brought in as fill, rather than expand the sampling requirements for an AOC where placement is proposed.

SRP has found that the maximum concentrations observed (100th percentile) in the RI of areas of concern (AOCs) can be atypical, much higher than those measured in the remaining AOC. Allowing these atypical concentrations to be imported would exaggerate the already increased mass of contaminants that will occur with the placement of these materials. This is why a comparison of maximum concentrations in the imported fill and the placement location was deemed to be inappropriate, and the 75th percentile was chosen instead.

SRP also considered using a comparison of mean values (which, depending on the distribution, can be equivalent to the 50th percentile) as a basis for establishing a critical value. However, the potential issues of unlike distributions, unequal sample sizes, sampling bias, etc. caused SRP regard this option as less credible. The SRP has concluded that, based on current knowledge, the 75th percentile of the concentrations in the placement locations shall be the maximum concentration allowable for a given contaminant in any fill allowed to be placed under this guidance.

The use of the 75th percentile offers certain advantages:

- For many uni-modal distribution types, observations in the distribution do exhibit a central tendency. It has been further observed that outliers and potential outliers for a given population of observations are generally above the 75th percentile or below the 25th percentile. The selection of the 75th percentile as a critical value would allow the importation of the largest volume of contaminated fill, while minimizing the inclusion of extreme concentrations.

- Use of the75th percentile as a critical value would provide a margin of safety to prevent bringing on-site concentrations above those already present. SRP recognizes the limitations of small sample sizes and, rather than increase the characterization effort, opted to employ a more conservative limit.

SRP recognizes that the selection of any basis for a critical value has drawbacks or weaknesses. Consequently, the use of the 75th percentile will be subject to periodic scrutiny and SRP is committed to revising this guidance document as needed.

APPENDIX B

FILL USE PLAN

APPENDIX B Fill Use Plan

The Fill Use Plan required in the Remedial Action Workplan (RAW) pursuant to N.J.A.C. 7:26E- 6.2(c) and 6.4(d) should include all of the following (parts can be provided in the Remedial Action Report (RAR) when not known at the time of RAW preparation, such as the information for the donor site):

1 For alternative and clean fill:

1.1 The location of the site of use and donor site(s) including state, county, municipality, address, block, and lot numbers.

1.2 The names, contact information, and relationship of all persons involved with the source, preparation, and transport of the fill from the donor site to the receiving site.

1.3 A description of the originating or donor site or AOC including use history from a PA or site review.

1.4 The volume of alternative fill or clean fill to be used or imported.

1.5 Identification of the specific location(s) on the site where the use will occur on a properly scaled map.

1.6 The depth to ground water on the receiving site, including the method of determination.

1.7 The description of the geotechnical properties of the fill appropriate for the intended use.

1.8 The use of the area(s) of the receiving and donor site (e.g., residential or nonresidential) being as specific as possible (e.g., light industrial, commercial strip mall, soccer field, condominium complex, etc.).

1.9 A discussion of the performance, effectiveness, and reliability of the proposed fill use and any potential negative impacts to human health, safety or the environment as a result of the use pursuant to the requirements at N.J.A.C. 7:26E-6.4(d).

1.10 The tracking and QC requirements to ensure all shipments received are of the fill from the approved donor site(s).

1.11 The field sampling and quality assurance project plan where new data must be generated for application of this guidance.

1.12 Documentation of the reliability of all data used in the application of this guidance.

1.13 The applicable laboratory data deliverables for all new data used in the application of this guidance.

1.14 All other documentation demonstrating compliance with this guidance.

2 For alternative fill only:

2.1 Data used to demonstrate that the same contaminants are present at the receiving and donor AOCs (i.e., contaminants not present at the receiving AOC may not be introduced as new contaminants in the donor fill).

2.2 Documentation to demonstrate compliance with the 75th percentile or mean criterion.

2.3 Documentation of the waste classification of the fill, including all supporting data.

2.4 Cut and fill calculations to support the volume of alternative fill is not in excess of what is required for the remedial action.

2.5 Documentation that the intended use of the alternative fill will not contaminate or increase contamination of ground water, surface water, or sediment, or result in or increase ecological risks.

2.6 All other documentation demonstrating compliance with this guidance.

3 For clean fill only:

3.1 The documentation (e.g., data deliverables) that the clean fill meets all applicable remediation standards and criteria and is free of extraneous debris or solid waste.

3.2 All other documentation demonstrating compliance with this guidance.

APPENDIX C

SRP POLICY STATEMENT
APRIL 26, 2011

Policy on the Use of Alternative Fill 4-26-11

Alternative fill (as defined in the Technical Requirements for Site Remediation (N.J.A.C. 7:26E-1.8) to be proposed in 2011) can be an economical substitute for the use of clean fill in remedial actions, provided its use is protective of human health and the environment. Furthermore, by not sending contaminated soil to be landfilled the use of alternative fill helps preserve landfill capacity. However, the Department will not allow the use of alternative fill if the end result constitutes a new discharge or if contamination is made worse from a concentration perspective. These two concepts, as discussed below, were first embodied in the June 2008 Department guidance titled, "Guidance for Beneficial Use of Soil and Non-Soil Material in the Remediation of Contaminated Sites and Closure of Solid Waste Landfills." Because of the importance of these two concepts, the Department is including them in the Technical Requirements for Site Remediation (N.J.A.C. 7:26E) to be proposed in 2011.

The first concept is that no new contaminants may be placed in an area of concern (AOC) other than those already determined to be present. This concept is referred to as the **like-on-like requirement**. Allowing the use of alternative fill with contaminants not already present in an AOC would constitute a new discharge as defined at N.J.A.C. 7:26E-1.8. Furthermore, the use of alternative fill in this situation would be de facto landfilling (i.e., the "placement" of new wastes) without complying with the Department's solid and hazardous waste regulations. The Department does not endorse the circumvention of these regulations and intends to minimize the potential for doing so through this policy and the "Alternative and Clean Fill Guidance for SRP Sites."

The second concept is to prevent the use of alternative fill with higher contaminant concentrations than are known to exist in the AOC where placement is proposed. This concept is referred to as the **75th percentile requirement**. To meet this concept, the alternative fill is acceptable provided the maximum contaminant concentration in the alternative fill is less than the 75th percentile of the contaminant concentration already present in the AOC at the destination site.

The selection of the 75th percentile is based on two considerations. First, the 75th percentile is a robust boundary beyond which extreme values or outliers in a population occur irrespective of population distribution type. As such, the 75th percentile is a conservative upper bound of the central distribution of a sample population. Second, the Department does not want to institute new or additional sampling requirements, but rather opted to rely mainly on the existing data provided by the remedial investigation of an AOC, where possible. There is a recognition that the remedial investigation sampling would typically be limited relative to statistical requirements for sample size and sampling design. Therefore, the Department chose to be conservative in selecting the upper limit of the concentration of contaminants that are allowed to be brought in as fill, rather than expand the sampling requirements for an AOC where placement is proposed.

For on-site movement of contaminated soil, the Department will allow exceptions to the like-on-like and 75th percentile Technical Rule requirements under the following conditions:

(1) A clean area or clean areas that meet the unrestricted use standard are created or enlarged. The like-on-like and 75th percentile requirements are suspended in this case. Token creation or enlargement of a clean area does not qualify for these suspensions. A token area is suggested to be one that is less than 10% of the receiving AOC, but the size of the receiving AOC and other site-specific conditions (such as the final use of the clean area) need to be factored into this determination.

(2) Areas of concern with the same contaminants can be consolidated as long as the total areal extent is reduced for that contaminant. The 75th percentile requirement is suspended in this case. Placement or encroachment on areas meeting the unrestricted use standards will still be prohibited.

In all cases, the final remedial action must be protective of human health and the environment.

The Department anticipates that the use of this policy and the "Alternative and Clean Fill Guidance for SRP Sites" will appropriately allow the majority of remedial actions to proceed without the use of a variance from the Technical Requirements for Site Remediation (N.J.A.C. 7:26E). However, there may be site-specific situations where it is in the public benefit to vary from this policy and the Technical Requirements for Site Remediation (N.J.A.C. 7:26E). Because Department preapproval is not required as part of this variance process, serious consideration of the situation is warranted when employing the variance option. Removal of the alternative fill may be required if the Department subsequently determines the use not to be protective of human health and the environment.

Note that consultation with the Department prior to using a variance is available to the regulated community to assist in resolving future concerns prior to implementation. The Department further recognizes that this policy and the "Alternative and Clean Fill Guidance for SRP Sites" will be reevaluated in the future and revised, if necessary.

APPENDIX D

GLOSSARY

GLOSSARY

Alternative Fill: Material to be used in a remedial action that contains contaminants in excess of the most stringent soil remediation standards, site-specific alternative standards, or site-specific interim standards and does not contain free liquids. This also includes any material that contains contaminants in excess of criteria or action levels for contaminants without standards, such as asbestos, radiation, hexavalent chromium, and dioxins. This material can be “soil” or “non-soil.”

Clean Fill: Material to be used in a remedial action that meets all soil remediation standards, site-specific alternative standards, or site-specific interim standards, does not contain extraneous debris or solid waste, and does not contain free liquids. This also includes any material that meets all criteria or action levels for contaminants without standards, such as asbestos, radiation, hexavalent chromium, and dioxins. This material can be “soil” or “non-soil.”

Concrete: Concrete includes concrete, concrete block, and brick from all sources including buildings or other structures (such as roadways, sidewalks, and curbing). Concrete from buildings or other structures must have all caulk, glass, doors, windows, and other construction debris removed from the concrete prior to use as fill.

Donor Site: Property (in-state or out-of-state) from which fill is obtained for use at a Site Remediation Program (SRP) site for remediation.

Non-Soil: Material that does not meet the definition of a "soil." Examples of non-soil material include, but are not limited to, Class B recyclables, asphalt millings, and construction and demolition screenings.

Receiving Area of Concern: An area of concern (AOC) at a Site Remediation Program (SRP) site that is being remediated and for which fill will be imported for use in the remediation.

Soil: Unconsolidated mineral or organic matter on the surface of the earth that has been subjected to and influenced by geologic and other environmental factors. Materials or mixtures that are predominantly soil-like in nature will be considered as soil, which include sediment, dredged material, and processed dredged material.

Technical Rule: Technical Requirements for Site Remediation (N.J.A.C. 7:26E)

APPENDIX E

ACRONYMS

ACRONYMS

ACM	Asbestos containing material
AOC	Area of concern
AUD	Acceptable use determination
BUD	Beneficial use determination
CAO	Certificate of authority to operate
CEA	Classification exception area
COC	Contaminants of concern
DSHW	Division of Solid and Hazardous Waste
EPH	Extractable petroleum hydrocarbons
ESNR	Environmentally Sensitive Natural Resource
IGW	Impact to ground water
LSRP	Licensed Site Remediation Professional
N.J.A.C.	New Jersey Administrative Code
NJGS	New Jersey Geological Survey
OPRA	Open Public Records Act
PA	Preliminary Assessment
PAH	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyl
PDM	Processed Dredge Material
RAW or RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
SI	Site Investigation
SPLP	Synthetic Precipitation Leaching Procedure
SRP	Site Remediation Program
SRS	Soil Remediation Standards
TCL/TAL	Target Compound List/Target Analyte List
TEQ	Toxicity equivalent quotients
TSCA	Toxic Substance Control Act
USEPA	United States Environmental Protection Agency
VOC	Volatile organic compound

APPENDIX B

Site Investigation Report (SIR) dated August 2012, and completed by Boswell McClave Engineering

SITE INVESTIGATION REPORT

FOR

Block 12, Lots 1-7, 9, and 11-18

City of Hoboken
Hudson County, New Jersey

NJDEP Program Interest No. 585028

Our File No. HO-458

Prepared By:

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BOSWELL McCLAVE ENGINEERING
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ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

AUGUST 2012

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				Existing	*Potential*	
AOC-1: Historic Fill	Potential Soil and Groundwater	Petroleum hydrocarbons, PAHs, Metals, and PCBs	Direct contact and groundwater migration	None	Limited amount of direct contact exposure in unpaved locations	**January 2012 Preliminary Assessment Report (PAR) -** In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants. Boswell McClave (Boswell) recommended collecting a minimum of four (4) soil samples and one (1) groundwater sample and analyzing for historic fill parameters if fill material is identified. **June 2012 Site Investigation Report (SIR) -** Soil contamination was encountered in the historic fill above the NJDEP's Residential Direct Contact Soil Remediation Standards (RDCSRS) at depths of up to 9.5' below ground surface (bgs), Boswell recommends institutional (deed notice) and engineering (capping) controls. The groundwater contamination can be addressed through the implementation of a Classification Exception Area (CEA).

I. Area(s) of Concern, Receptor and Emergency Response Tracking	*Impacted Media*	*Contaminants of Concern*	*Exposure Route*	*Receptors*		*Current Status/Outcome*
				Existing	*Potential*	
AOC-2: Potential USTs	Potential Soil and Groundwater	Petroleum hydrocarbons and lead	Groundwater migration	None	None	**January 2012 PAR -** According to aerial imagery and Sanborn Fire Insurance Maps the various properties have been developed and modified throughout the last 100-years. Some of the former structures may have utilized heating oil stored in underground storage tanks (UST). Boswell recommends a geophysical survey of the subject properties to confirm the presence/absence of USTs or other subsurface anomalies. If any USTs are identified they should be investigated/removed in accordance with the NJDEP's Technical Requirements. **June 2102 SIR -** No subsurface anomalies exhibited "UST-like" signatures and the geophysical contractor concluded that there were no abandoned or forgotten tanks on the property. Based upon the geophysical survey results, the absence of visually identifiable petroleum contamination in the soil borings, Boswell recommends no further investigation of AOC-2.
AOC-3: Off-Site Former UST Releases	Potentially Groundwater	Gasoline and Fuel Oil	Groundwater Migration	None	None	**January 2012 PAR -** The First Search radius report identified the presence of off-site UST releases of gasoline and fuel oil nearby the subject properties. Based on the age of the releases (~10 years ago), the potential contaminants have a low possibility of impacting the site. Moreover, it is the obligation of the responsible party (RP) to address contamination migrating from their site. **June 2102 SIR -** The temporary well point groundwater sample did not detect any targeted contaminants above the NJDEP GQC or Vapor Intrusion Groundwater Screening Level. Therefore, there is no evidence that the site's groundwater has been impacted by previous off-site UST releases.

1.0 INTRODUCTION

Boswell McClave Engineering (Boswell) has completed this Site Investigation Report (SIR) for the City of Hoboken (the City). This SIR, prepared in accordance with the New Jersey Department of Environmental Protection (NJDEP) *Technical Requirements for Site Remediation*, N.J.A.C. 7:26E et seq. (Technical Requirements) will address the site investigation (SI) conducted at:

- Block 12, Lots 1-6, 57-67 Harrison Street;
- Block 12, Lot 7, 69 Harrison Street;
- Block 12, Lot 9, 67-69 Paterson Avenue;
- Block 12, Lot 11, 59 Paterson Avenue;
- Block 12, Lot 12, 57 Paterson Avenue;
- Block 12, Lot 13, 55 Paterson Avenue;
- Block 12, Lot 14, 51-53 Paterson Avenue;
- Block 12, Lot 15, 64 Jackson Street; and,
- Block 12, Lots 16-18, Jackson Street,

Hoboken, New Jersey (hereinafter referred to as "the Properties" or "the Site"). The Applicable NJDEP Forms are included in ***Appendix A***, while Boswell's qualifications to prepare this SIR are included in ***Appendix L***.

1.1 Site Description

The properties lie in the City of Hoboken in eastern Hudson County, New Jersey. The Site includes 16 of the 18 parcels that comprise Block 12.

The majority of the subject properties (Lots 1-7 and 13-18) are currently operated by Desbroses Garage Corp., Ponte Equities, Inc., and Unity Environmental as a private asphalt-paved parking lot.

The City of Hoboken owns Lot 9 which is an undeveloped property having a cobblestone road at its southern end.

Lot 11 is owned by Mita & Tanvi Patel and is a two (2) family residential dwelling.

Lot 12 is a vacant undeveloped property.

The total size of the subject properties is approximately 0.91-acres. Maps depicting the subject property's location are included in ***Appendix B***.

1.2 Site History

The following section presents a brief site history; please refer to Boswell's January 2012 Preliminary Assessment Report (PAR) report for a more detailed discussion of the property's history.

Based on Sanborn Maps, historic aerial photographs and the chain-of-title, prior to the Site's current uses, the southern portion of the properties contained footings for the North Hudson County Railroad's elevated trolley line. The north portion of the Site has been developed with various apartments and residential dwellings that included garages, a smokehouse and storage over the past 100-years.

1.3 Overview and Purpose of Site Investigation

Boswell's PAR identified the following three (3) potential environmental areas of concern (AOC) as depicted in ***Figure 1*** and provided recommendations for additional investigation as follows:

- **AOC-1: Historic Fill** – In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants.

  Boswell recommended collecting a minimum of four (4) soil samples and one (1) groundwater sample to be analyzed for historic fill parameters if fill material was identified.

- **AOC-2: Potential UST** – The various properties have been developed and modified throughout the last 100-years according to aerial imagery and Sanborn Fire Insurance Maps. Some of the former structures may have utilized heating oil USTs.

  Boswell recommended a geophysical survey of the subject properties in order to confirm the presence/absence of USTs or other subsurface anomalies. If any USTs are located they should be investigated in accordance with the NJDEP's Technical Requirements.

- **AOC-3: Off-Site Former UST Releases** – The First Search radius report identified the presence of off-site UST releases of gasoline and fuel oil nearby the site. Based on the age of the releases (~10 years ago), the potential contaminants have a low possibility of impacting the site. Moreover, it is the obligation of the responsible party (RP) to address contamination migrating from their site, therefore Boswell recommended no further investigation.

Due to a change in the NJDEP's policy, it is no longer necessary to contact the State's Spill Hotline and receive a case number for historic fill sites. However, a Confirmed Discharge Notification Form must be submitted and a Licensed Site Remediation Professional (LSRP) be hired to investigate and remediate the site. Copies of these forms are included in ***Appendix A***.

1.4 Sequence of Site Investigation

The dates of the activities discussed in this SIR are as follows:

October 27, 2011 -	Preliminary Assessment Inspection;
January 2012	Preliminary Assessment Report;
May 14, 2012 -	Geophysical survey, soil boring sampling, and groundwater investigation of Lots 13-18; and,
May 17, 2012 -	Geophysical survey and soil boring sampling at Lots 1-7, 9, and 12.

2.0 GENERAL PHYSICAL SETTING

As referenced earlier, the Sites are located in the City of Hoboken, Hudson County, New Jersey ***(Appendix B)***.

2.1 Topography

The Sites are located in the Jersey City Quadrangle, New Jersey, United States Geological Survey (USGS) Topographic Map. The USGS Map depicts the property's topography at approximately 10' above mean sea level with no visible slope direction ***(Appendix C)***. On-site inspection determined that the subject properties slope very gently to the southeast.

2.2 Surface Water

There are no surface water bodies located on any of the subject properties. The nearest water body is a tributary to the Hudson River located approximately 1,800' southeast of the nearest property boundary. The tributary travels east approximately 1,900' before discharging into the Hudson River. The Hudson River is a tidal water body that empties into New York Bay before eventually outletting to the Atlantic Ocean.

The NJDEP Surface Water Quality Standards Report (N.J.A.C. 7:9B) classifies the Hudson River tributary as Freshwater-2 Non-Trout Saline Estuary 2 (FW2-NT/SE2) waters. Non-trout (NT) signifies fresh waters that are not designated as trout production or trout maintenance. These waters are generally not suitable for trout because of their physical, chemical, or biological characteristics, but are suitable for a wide variety of other species. This tributary of the Hudson River has been classified as a Saline Estuarine Category 2 stream (SE2) based on the NJDEP designated uses including: maintenance, migration and propagation of the natural and established biota; migration of diadromous fish; maintenance of wildlife; secondary contact recreation; and any other reasonable uses.

Additionally, no wetlands or environmentally sensitive areas were identified on the NJDEP's NJ-GeoWeb GIS program within 1,000' of the subject property.

2.3 Soil

The United States Department of Agriculture/Soil Conservation Service (USDA/SCS) Soil Survey Geological (SSURGO) Map is not available for Hudson County, however, the New Jersey Geological Survey (NJGS) Surficial Geology Map (2004) is included in ***Appendix D.*** Based on the NJGS data, the soil at the subject property and surrounding area are designated as Holocene Epoch Salt Marsh and Estuary Deposits (Qmm). The NJGS describes the Qmm as brown to dark brown, gray, or black silt, sand, peat, clay, and minor pebble gravel. The formation can be up to 300' thick in the Hudson River valley and 100' thick elsewhere. Qmm contains abundant organic matter; the soils were deposited in salt-marshes, estuaries,

and tidal channels during the Holocene sea level rise.

2.4 Geology

The geologic unit beneath the Sites is Triassic Period Stockton Formation (Trs) as shown in ***Appendix D***. The Stockton Formation is described by Kimmel (1897) as light-gray, light-grayish-brown, yellowish- to pinkish-gray, or violet-gray to reddish- brown, medium- to coarse-grained arkosic sandstone and reddish- to purplish-brown mudstone, silty mudstone, argillaceous siltstone, and shale. Mudstone, siltstone, and shale beds thicker and more numerous in central Newark basin west of Round Valley Reservoir. Sandstones mostly planar bedded and have scoured bases containing pebble lags and mud- stone rip-ups. The unit is coarser near Newark basin border fault, where poorly exposed, reddish-brown to pinkish-white, medium- to coarse- grained, feldspathic pebbly sandstone and conglomerate (Rss) and pebble to cobble quartzite conglomerate (Rscq). Maximum thickness of formation about 1,240-m (4,070').

Structurally, two (2) major normal extensional faults are located near the Site to the east and one (1) to the west. A thrust fault is also located approximately 2,000' to the northeast of the Site. These four (4) faults located near the Site are most likely inactive or at a low frequency of activity since no signs of recent off-set are visible. Bedrock was not encountered during soil borings conducted during this SI.

2.5 Hydrogeology & Groundwater

During the SI, groundwater was encountered in four (4) of the seven (7) borings advanced throughout the subject properties. Groundwater was measured at a depth of approximately 5' bgs in soil borings SB-1, SB-5, and SB-6. Groundwater was observed in soil boring SB-2 at approximately 9' bgs. It is Boswell's opinion that discrepancies in the shallow overburden groundwater depth is due to the heterogeneous nature of the historic fill material causing mounds and depressions in the groundwater table. The shallow overburden groundwater presumably follows the topography flowing to the southeast and eventually discharging into the Hudson River.

3.0 TECHNICAL OVERVIEW

This section provides a general technical overview of the investigation performed at the Sites. A Sample Location Map is included as ***Figure 2***. The investigation's photographs are found in ***Appendix E*** while the soil boring logs are included in ***Appendix F***.

3.1 Geophysical Survey

The geophysical survey contractor, Infrared Services, Inc. (Infrared), utilized both a magnetometer (i.e. metal detector) and ground penetrating radar (GPR) to investigate the property for the presence of USTs, drums, containers or other subsurface anomalies. Due to the compact soils and high groundwater table, the GPR imaging was limited to a depth of approximately 3' - 4' bgs. However the magnetometer was not inhibited by the soil depth. Furthermore, the south (rear) of Lot 12 contained thick vegetation and concrete rubble which inhibited the geophysical survey. Therefore only a general magnetometer "sweep" of the rear (south) end of Lot 12 was possible.

The geophysical survey identified one (1) distinct GPR anomaly at the Sites. The anomaly was located in Lot 15 on the east side of Block 12 inside the foundation of the former three (3) story flat. One (1) soil boring SB-4 was advanced inside of the geophysical anomaly which contained a 2' interval of crushed brick which may have accounted for the discrepancy in the GPR signatures.

No subsurface anomalies exhibited "UST-like" signatures and Infrared concluded that there were no abandoned or forgotten tanks on the property. Infrared's Geophysical Survey Report is included in ***Appendix G***.

3.2 Soil Sampling

Boswell's PAR identified the possibility of historic fill present at the sites. The NJDEP Historic Fill dataset depicts the entire Site and surrounding area as within potential historic fill limits (***Figure 3***). Furthermore, the First Search Technologies, Corp. radius report identified several sites within 1/8-mile of the subject property with confirmed historic fill and/or deed notices.

Based upon this information, Boswell contracted Environmental Management Associates (EMA) to advance seven (7) soil borings throughout the subject properties. The soil investigation was separated into two (2) phases, performed on May 14 and 17, 2012. Phasing of the investigation was necessary to relocate the automobiles from one side of the Site to the other since a majority of the Site is used as a private long term parking lot. All seven (7) soil borings contained historic fill material deposited at different times throughout the site's history in order to raise the sites' topographic grade or backfill foundations.

All soil cores were field screened at 1' intervals with a PID, Model Hnu PL-101

(10.2 electron volt bulb) calibrated to a benzene equivalent isobutylene concentration of 100 parts per million (ppm). Four (4) soil samples and one (1) quality assurance/quality control duplicate were collected based on the size of the site and the presence of historic fill.

Samples were analyzed for historic fill parameters including Polycyclic Aromatic Hydrocarbons (PAH) and Target Analyte List (TAL) Metals. Additionally, 25% of the samples (SB-7) were also selected for contingent Full Target Compound List/Target Analyte List (TCL/TAL) analysis including Extractable Petroleum Hydrocarbons (EPH), Volatile Organic Compounds (TCL VOC+), Semi-Volatile Organic Compounds (TCL ABN+) and polychlorinated biphenyls (PCB).

3.3 Groundwater Sampling

Since historic fill was identified within 2' of the seasonal high groundwater table, the NJDEP Technical Requirements specify collecting a groundwater sample for historic fill parameter analysis. EMA installed one (1) temporary well point at boring SB-1 in the presumed hydraulic downgradient of the subject properties. The well point was constructed of 15', 1" diameter slotted (0.01') polyvinylchloride (PVC) screen. Groundwater was encountered at a depth of approximately 5' bgs in the temporary well point.

Boswell purged the well point of three (3) to five (5) column volumes using a peristaltic pump and collected the sample with a dedicated Teflon bailer. One (1) groundwater sample and one (1) QA/QC duplicate were collected and analyzed for Full TCL/TAL including TCL VOA+, TCL ABN, PCBs and TAL Metals.

3.4 Quality Assurance/Quality Control (QA/QC)

The following QA Protocols were applicable to all samples:

1. Documentation was provided in the form of a field logbook, data sheets and chain of custody records.

2. All soil samples were analyzed by AccuTest Laboratories, NJDEP Certification No. 12129.

3. The detection limits were calculated and recorded along with the data, where appropriate.

4. All sample-holding times were met. Samples were delivered to the laboratory within 24-hours of sampling and properly cooled to 4° C. Included in the Laboratory Analysis Report ***(Appendix M)*** is documentation of sample collection and analysis dates.

5. All samples were analyzed in accordance with the methods outlined in ***Appendix H***.

6. Initial and continuing instrument calibration data is provided in the Laboratory Analysis Report ***(Appendix M)***.

7. Soil samples were obtained using dedicated polystyrene sampling scoops and placed into laboratory certified clean glassware. Groundwater samples were collected using a dedicated Teflon bailer attached to dedicated bailer twine.

8. Analysis on all of the samples was identified via the appropriate NJDEP approved methods. Documentation such as gas chromatograms and mass spectra are also provided.

9. All laboratory data is provided in the Tier II Reduced and Electronic Data Deliverables (EDD) format.

10. QA/QC duplicate soil and groundwater samples were collected.

11. One (1) QA/QC trip blank was included in the groundwater sample shipment since VOC analysis was performed.

3.5 Events Influencing Sampling Results

No significant event or seasonal variation affected the SI.

4.0 FINDINGS AND RESULTS

The following section details the SI's results. The sample location plan is provided in ***Figure 2,*** the soil boring logs are found in ***Appendix F*** and the Analytical Results Summary Tables are included in ***Appendix I.*** The complete laboratory data package is included in ***Appendix M.***

4.1 Soil Sampling

The following section details the results of the soil investigation at AOC-1. A total of seven (7) soil borings were advanced and four (4) soil samples collected from the borings where historic fill material was encountered. The PID field screening of the soil cores did not reveal any VOC concentrations above background in any sample. The soil sampling results are as follows:

SB-1

Sample SB-1 was obtained from the 1.5' to 2.0' bgs interval along the property's southeast corner in Lot 18. The sample was analyzed for PAHs and TAL Metals. The sample was characterized as dark brown silt and concrete.

The PAH analysis detected benzo(a)anthracene at a concentration of 56.8 ppm, **above** both the NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS) of 0.6 ppm and the NJDEP Default Impact to Groundwater Soil Remediation Standard (IGWSRS) of 0.5 ppm; benzo(a)pyrene was detected at 51.7 ppm, **above** both the RDCSRS and IGWSRS of 0.2 ppm; benzo(b)flouranthene was detected at 59.2 ppm, **above** both the RDCSRS of 0.6 ppm and IGWSRS of 2 ppm; benzo(k)flouranthene was detected at 25 ppm, **above** both the RDCSRS of 6 ppm and IGWSRS of 16 ppm; dibenzo(a,h)anthracene was detected at 9.88 ppm, **above** both the RDCSRS of 0.2 ppm and the IGWSRS of 0.2 ppm; and indeno(1,2,3-cd)pyrene was detected at 24.3 ppm, **above** both the RDCSRS of 0.6 ppm and the IGWSRS of 5 ppm. No other PAHs were detected above the NJDEP's SRS. However, chrysene was detected at 52.2 ppb, slightly **above** the IGWSRS of 52 ppm, but below the RDCSRS of 62 ppm.

The TAL Metals analysis detected arsenic at a concentration of 43 ppm, **above** both the NJDEP RDCSRS and IGWSRS of 19 ppm; and lead was detected at 866 ppm, **above** both the NJDEP RDCSRS of 400 ppm and IGWSRS of 59 ppm. No other metals were reported above the NJDEP SRS. However, aluminum was detected at a concentration of 7,820 ppm, **above** the IGWSRS of 3,900 ppm, but below the RDCSRS of 78,000 ppm; antimony was detected at 12.5 ppm, **above** the IGWSRS of 42 ppm, but below the RDCSRS of 31 ppm; cadmium was detected at 1.7 ppm, **above** the IGWSRS of 1 ppm, but below the RDCSRS of 78 ppm; manganese was detected at 181 ppm, **above** the IGWSRS of 42 ppm, but below the RDCSRS of 11,000 ppm; mercury was detected at 9 ppm, **above** the IGWSRS of 0.1 ppm, but below the RDCSRS of 23 ppm; nickel was detected at 51.7 ppm, **above** the

IGWSRS of 31 ppm, but below the RDCSRS of 1,600 ppm; silver was detected at 4.4 ppm, **above** the IGWSRS of 1 ppm, but below the RDCSRS of 390 ppm; and zinc was detected at 1,880 ppm, **above** the IGWSRS of 600 ppm, but below the RDCSRS of 23,000 ppm. Aluminum and manganese are secondary standards (i.e. not health based) therefore the IGWSRS do not apply. Moreover, the concentrations are below the 90th Percentile Concentration for soil found in New Jersey's Urban Piedmont (*Ambient Levels of Metals found in New Jersey Soils, Sanders, 2003*) therefore the results could also be attributable to background concentrations. Finally, and most importantly, the IGWSRS do not apply to historic fill.

SB-3

Sample SB-3 was obtained from the 4.0' to 4.5' bgs interval at the east side of Block 12 outside of a former building foundation inside Lot 14. The sample was analyzed for PAHs and TAL Metals. The sample was characterized as coal mixed with ash and brick.

The PAH analysis detected benzo(a)anthracene at a concentration of 0.696 ppm, **above** both the NJDEP RDCSRS of 0.6 ppm and the NJDEP IGWSRS of 0.5 ppm; benzo(a)pyrene was detected at 0.615 ppm, **above** both the RDCSRS and IGWSRS of 0.2 ppm; and benzo(b)flouranthene was detected at 0.801 ppm, **above** both the RDCSRS of 0.6 ppm and IGWSRS of 2 ppm. No other PAHs were detected above the NJDEP's SRS.

The TAL Metals analysis did not detect any targeted metals above the NJDEP RDCSRS. However, aluminum was detected at a concentration of 6,440 ppm, **above** the IGWSRS of 3,900 ppm, but below the RDCSRS of 78,000 ppm; lead was detected at 157 ppm, **above** the IGWSRS of 59 ppm, but below the RDCSRS of 400 ppm; manganese was detected at 129 ppm, **above** the IGWSRS of 42 ppm, but below the RDCSRS of 11,000 ppm; and mercury was detected at 0.88 ppm, **above** the IGWSRS of 0.1 ppm, but below the RDCSRS of 23 ppm. As previously discussed, the IGWSRS do not apply to historic fill.

SB-6

Sample SB-6 was obtained from the 9.0' to 9.5' bgs interval in the southwest portion of Block 12 inside of Lot 2. The sample was analyzed for PAHs and TAL metals. The sample was characterized as brown to green silty-clay with coal, glass, and metal.

The PAH analysis detected benzo(a)pyrene at a concentration of 0.269 ppm, **above** both the NJDEP RDCSRS and IGWSRS of 0.2 ppm. No other PAHs were detected above the NJDEP's SRS.

The TAL Metals analysis did not detect any targeted metals above the RDCSRS.

However, aluminum was detected at a concentration of 9,840 ppm, **above** the IGWSRS of 3,900 ppm, but below the RDCSRS of 78,000 ppm; beryllium was detected at 0.81 ppm, **above** the IGWSRS of 0.5 ppm, but below the RDCSRS of 16 ppm; lead was detected at 200 ppm, **above** the IGWSRS of 59 ppm, but below the RDCSRS of 400 ppm; manganese was detected at 501 ppm, **above** the IGWSRS of 42 ppm, but below the RDCSRS of 11,000 ppm; and mercury was detected at 0.8 ppm, **above** the IGWSRS of 0.1 ppm, but below the RDCSRS of 23 ppm. As previously discussed, the IGWSRS do not apply to historic fill.

SB-7

Sample SB-7 was obtained from the 2.5' to 3.0' bgs interval along the property's northwest portion of Block 12 inside of Lot 9. The sample was analyzed for PAHs and TAL metals. The sample was characterized as brown silty clay with coal, ash, and wood. Sample SB-7 was also selected for the 25% contingent Full TCL/TAL analysis including EPH, TCL VOA+, TCL ABN and PCBs.

Total EPH were reported at a concentration of 423 ppm, below the Ecological Concern Level (ECL) of 1,700 ppm, the RDCSRS of 5,100 ppm, and the Residual Product Limit (RPL) of 8,000 ppm. Additionally, since the results of the EPH analysis were below 1,000 ppm, the fractionated EPH analysis was not required.

The TCL VOC+ analysis did not detect any analyzed VOCs above the NJDEP's RDCSRS.

The PAH and TCL ABN analysis did not detect any targeted semi-volatile organic contaminants PAHs above the NJDEP's RDCSRS.

The TAL Metals analysis detected lead at a concentration of 678 ppm, **above** the NJDEP RDCSRS of 400 ppm and the IGWSRS of 59 ppm. No other analyzed compounds were reported above the NJDEP RDCSRS. However, aluminum was detected at a concentration of 5,620 ppm, **above** the IGWSRS of 3,900 ppm, but below the RDCSRS of 78,000 ppm; beryllium was detected at 0.72 ppm, **above** the IGWSRS of 0.5 ppm, but below the RDCSRS of 16 ppm; cadmium was detected at 2.7 ppm, **above** the IGWSRS of 1 ppm, but below the RDCSRS of 78 ppm; manganese was detected at 158 ppm, **above** the IGWSRS of 42 ppm, but below the RDCSRS of 11,000 ppm; mercury was detected at 0.38 ppm, **above** the IGWSRS of 0.1 ppm, but below the RDCSRS of 23 ppm; nickel was detected at 36.4 ppm, **above** the IGWSRS of 31 ppm, but below the RDCSRS of 1,600 ppm; and zinc was detected at 1,760 ppm, **above** the IGWSRS of 600 ppm, but below the RDCSRS of 23,000 ppm. As previously discussed, the IGWSRS do not apply to historic fill.

The PCB analysis did not detect any PCBs above the laboratory RL, well below the NJDEP RDCSRS.

4.2 Groundwater Sampling

The following details the results of the groundwater investigation at AOC-1. One (1) temporary well point was installed in soil boring SB-2. The results of the groundwater sample are as follows:

TWP-1

Sample TWP-1 was obtained from a temporary well point installed into soil boring SB-1 in the northeast portion of the subject property, in the presumed hydraulically downgradient direction. Groundwater was recorded at a depth of approximately 5' bgs, within the screened interval of the well point. The groundwater sample was analyzed for historic fill parameters (full TAL/TCL analysis) including TCL volatile and semi-volatile organic compounds (VOC/SVOC), TAL Metals, and PCBs. Prior to sampling Boswell purged the maximum five (5) well volumes of water, however, the groundwater samples remained turbid exhibiting a black silty color.

The VOC analysis did not report any targeted compounds above the NJDEP's Class II-A Aquifer Groundwater Quality Criteria (GQC) or Vapor Intrusion (VI) Groundwater Screening Level (GSL).

The SVOC analysis detected benzo(a)anthracene at 0.683 ppb, **above** the NJDEP's GQC of 0.1 ppb; benzo(a)pyrene was detected at 0.58 ppb, **above** the GQC of 0.1 ppb; benzo(b)flouranthene was detected at 0.608 ppb, **above** the GQC of 0.2 ppb; bis(2-ethylhexyl)phthalate was detected at 22 ppb, **above** the GQC of 3 ppb; and indeno(1,2,3-cd)pyrene was detected at 0.428 ppb, **above** the GQC of 0.2 ppb. No other targeted SVOCs were detected above the GQC.

The TAL Metals analysis detected aluminum at a concentration of 8,650 ppb, **above** the NJDEP's GQC of 200 ppb; antimony was detected at 14.9 ppb, **above** the GQC of 6 ppb; arsenic was detected at 24.5 ppb, **above** the GQC of 3 ppb; iron was detected at 39,200 ppb, **above** the GQC of 300 ppb; lead was detected at 738 ppb, **above** the GQC of 5 ppb; manganese was detected at 1,100 ppb, **above** the GQC of 50 ppb; mercury was detected at 2.6 ppb, **above** the GQC of 2 ppb; and sodium was detected at 198,000 ppb, **above** the GQC of 50,000 ppb. No other analyzed metals were detected above the most stringent regulatory limit.

PCBs were not detected above laboratory's RL, well below the NJDEP's GQC.

4.3 QA/QC Results

The following section details the results of the QA/QC samples. During the May 14, 2012 sampling event, one (1) duplicate soil sample and one (1) duplicate groundwater sample were collected, satisfying the NJDEP requirements of one (1) duplicate sample, per 20 samples, per matrix. Furthermore, since groundwater VOC analysis were performed, one (1) de-ionized water trip blank was included in the groundwater sample shipment to identify the presence of any potential cross contamination. A QA/QC Results Summary Table is provided in ***Appendix J***.

4.3.1 Duplicate Samples

SB-1/SB-11

Sample SB-11, a duplicate of soil sample SB-1, was analyzed for TCL PAHs and TAL metals. The PAH analysis detected acenaphthene at a concentration of 4.12 ppm in SB-1 and an estimated concentration of 0.0367 ppm in SB-11; acenaphthylene was detected at 9.38 ppm in SB-1 and an estimated concentration of 0.0323 ppm in SB-11; anthracene was detected at 26.5 ppm in SB-1 and 0.0824 ppm in SB-11; benzo(a)anthracene was detected at 56.8 ppm in SB-1 and 0.279 ppm in SB-11; benzo(a)pyrene was detected at 51.7 ppm in SB-1 and 0.321 ppm in SB-11; benzo(b)flouranthene was detected at 59.2 ppm in SB-1 and 0.331 ppm in SB-11; benzo(g,h,i)perylene was detected at 22.7 ppm in SB-1 and 0.229 ppm in SB-11; benzo(k)flouranthene was detected at 25 ppm in SB-1 and 0.113 ppm in SB-11; chrysene was detected at 52.2 ppm in SB-1 and 0.32 ppm in SB-11; dibenzo(a,h)anthracene was detected at 9.88 ppm in SB-1 and 0.0655 ppm in SB-11; flouranthene was detected at 114 ppm in SB-1 and 0.487 ppm in SB-11; fluorene was detected at 14.8 ppm in SB-1 and at an estimated concentration of 0.0387 ppm in SB-11; indeno(1,2,3-cd)pyrene was detected at 24.3 ppm in SB-1 and 0.167 ppm in SB-11; naphthalene was detected at 3.35 ppm in SB-1 and an estimated concentration of 0.0345 ppm in SB-11; phenanthrene was detected at 73.9 ppm in SB-1 and 0.366 ppm in SB-11; and pyrene was detected at 85.9 ppm in SB-1 and 0.414 ppm in SB-11.

The TAL Metals analysis detected aluminum at a concentration of 7,820 ppm in SB-1 and 5,020 ppm in SB-11; antimony was detected at 12.5 ppm in SB-1 and 4.4 ppm in SB-11; arsenic was detected at 43 ppm in SB-1 and 32.9 ppm in SB-11; barium was detected at 346 ppm in SB-1 and 143 ppm in SB-11; beryllium was detected at 0.4 ppm in SB-1 and 0.35 ppm in SB-11; cadmium was detected at 1.7 ppm in SB-1, but not detected above the laboratory RL in SB-11; calcium was detected at 10,800 ppm in SB-1 and 40,500 ppm in SB-11; total chromium was detected at 31 ppm in SB-1 and 15.5 ppm in SB-11; cobalt was detected at 10.3 ppm in SB-1 and 11.7 ppm in SB-11; copper was detected at 197 ppm in SB-1 and 761 ppm in SB-11;

iron was detected at 24,400 ppm in SB-1 and 41,300 ppm in SB-11; lead was detected at 866 ppm in SB-1 and 516 ppm in SB-11; magnesium was detected at 5,360 ppm in SB-1 and 1,660 ppm in SB-11; manganese was detected at 181 ppm in SB-1 and 233 ppm in SB-11; mercury was detected at 9 ppm in SB-1 and 3.9 ppm in SB-11; nickel was detected at 51.7 ppm in SB-1 and 24.5 ppm in SB-11; selenium was detected at 5 ppm in SB-11, but not detected above laboratory RL in SB-1; silver was detected at 4.4 ppm in SB-1 and 1.9 ppm in SB-11; vanadium was detected at 27.8 ppm in SB-1 and 19.1 ppm in SB-11; and zinc was detected at 1,880 ppm in SB-1 and 492 ppm in SB-11.

The difference in the sample concentrations can be attributed to the non-homogeneity of the historic fill soil sample matrix. Boswell finds the difference in analytical concentrations acceptable and considers the results valid.

TWP-1/TWP-11

Sample TWP-11, a duplicate of sample TWP-1, was analyzed for Full TCL/TAL.

The VOC analysis reported carbon disulfide at an estimated concentration of 0.32 ppb in TWP-1 and 0.28 ppb in TWP-11; chloroethane (ethyl chloride) was detected at 1.3 ppb in TWP-1 and 1.4 ppb in TWP-11; and methyl tertiary butyl ether (MTBE) was detected at an estimated concentration of 0.58 ppb in TWP-1 and 0.53 ppb in TWP-11.

The SVOC analysis reported acenaphthalene at 0.599 ppb in TWP-1 and 0.662 ppb in TWP-11; acenaphthylene was detected at 0.117 ppb in TWP-1 and 0.132 ppb in TWP-11; anthracene was detected at 0.274 ppb in TWP-1 and 0.327 ppb in TWP-11; benzo(a)anthracene was detected at 0.683 ppb in TWP-1 and 0.805 ppb in TWP-11; benzo(a)pyrene was detected at 0.58 ppb in TWP-1 and 0.679 ppb in TWP-11; benzo(b)flouranthene was detected at 0.608 ppb in TWP-1 and 0.701 ppb in TWP-11; benzo(g,h,i)perylene was detected at 0.493 ppb in TWP-1 and 0.567 ppb in TWP-11; benzo(k)flouranthene was detected at 0.42 ppb in TWP-1 and 0.497 ppb in TWP-11; bis(2-ethylhexal)phthalate was detected at 22 ppb in TWP-1, but below the laboratory RL in TWP-11; chrysene was detected at 0.61 ppb in TWP-1 and 0.707 ppb in TWP-11; dibenz(a,h)anthracene was detected at 0.188 ppb in TWP-1 and 0.22 ppb in TWP-11; flouranthene was detected at 0.953 ppb in TWP-1 and 1.09 ppb in TWP-11; fluorene was detected at 0.201 ppb in TWP-1 and 0.221 ppb in TWP-11; indeno(1,2,3-cd)pyrene was detected at 0.428 ppb in TWP-1 and 0.498 ppb in TWP-11; naphthalene was detected at 0.292 ppb in TWP-11, but below the laboratory RL in TWP-1; phenanthrene was detected at 0.88 ppb in TWP-1 and 1.06 ppb in TWP-11;

and pyrene was detected at 1.01 ppb in TWP-1 and 1.19 ppb in TWP-11.

The TAL Metals analysis detected aluminum at 8,650 ppb in TWP-1 and 10,500 ppb in TWP-11; antimony was detected at 14.9 ppb in TWP-1 and 20.3 ppb in TWP-11; arsenic was detected at 24.5 ppb in TWP-1 and 33.5 ppb in TWP-11; barium was detected at 521 ppb in TWP-1 and 600 ppb in TWP-11; beryllium was detected at 1 ppb in TWP-11, but below the laboratory RL in TWP-11; calcium was detected at 140,000 ppb in TWP-1 and 142,000 ppb in TWP-11; total chromium was detected at 22.3 ppb in TWP-1 and 28.1 ppb in TWP-11; copper was detected at 578 ppb in TWP-1 and 772 ppb in TWP-11; iron was detected at 39,200 ppb in TWP-1 and 47,900 ppb in TWP-11; lead was detected at 738 ppb in TWP-1 and 976 ppb in TWP-11; magnesium was detected at 35,400 ppb in TWP-1 and 35,700 ppb in TWP-11; manganese was detected at 1,100 ppb in TWP-1 and 1,160 ppb in TWP-11; mercury was detected at 2.6 ppb in TWP-1 and 2.9 ppb in TWP-11; nickel was detected at 20.8 ppb in TWP-1 and 26.7 ppb in TWP-11; potassium was detected at 18,700 ppb in TWP-1 and 18,800 ppb in TWP-11; sodium was detected at 198,000 ppb in TWP-1 and 197,000 ppb in TWP-11; and zinc was detected at 387 ppb in TWP-1 and 495 ppb in TWP-11.

The PCB analysis did not detect PCBs above the laboratory's RL for either sample TWP-1 or TWP-11.

The laboratory did not report any problems with the analyses and based upon the close correlation of the groundwater results, Boswell considers the data valid.

4.3.2 Trip Blank

Analysis of the de-ionized water trip blank, which accompanied the groundwater sample shipment, did not reveal evidence of VOC cross-contamination.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following section summarizes the results of the investigation conducted at each of the potential environmental AOCs and provides the necessary recommendations. All applicable NJDEP forms are contained in ***Appendix A***. The Estimated Cost Summary Table is included in ***Appendix K***.

5.1 AOC-1: Historic Fill

Results – In the past, fill material was used throughout the City to raise the topographic grade of low-lying properties. Moreover, if any of the former on-site structures had a basement it was a common practice to fill in the foundation with demolition debris that may contain low-level contaminants.

On May 14 and 17, 2012 Boswell contracted Environmental Management Associates, Inc. (EMA) to advance a total seven (7) soil borings throughout the subject properties. All soil borings exhibited the presence of historic fill including brick, concrete, coal, ash, wood, and glass. Based on the size of the sites (less than 1-acre) Boswell collected four (4) soil samples and one (1) groundwater sample to be analyzed for historic fill parameters. The results indicated that the soil throughout the subject properties is contaminated with low level polycyclic aromatic hydrocarbons (PAH) and metals including arsenic and lead **above** the NJDEP's Residential Direct Contact Soil Remediation Standards (RDCSRS). The soil samples also contained numerous metals above the NJDEP's Impact to Groundwater Soil Remediation Standard (IGWSRS), however, since the material is historic fill, the IGWSRS limits do not apply. The temporary well point groundwater sample also contained PAHs and metals **above** the NJDEP's Groundwater Quality Criteria (GQC).

Recommendations – Since soil contamination was detected in the historic fill above the NJDEP's RDCSRS from various depths of up to 9.5' below ground surface (bgs), Boswell recommends engineering (capping) and institutional (deed notice) controls. The City of Hoboken is evaluating the purchase of the subject properties to construct a park. The park's design and construction should include the necessary capping components to protect human health and the environment.

The groundwater contamination can be managed through the implementation of a Classification Exception Area (CEA) that places restrictions on the use of the Site's groundwater. Since it is anticipated that the site will utilize potable water supplied by the United Water, a CEA should not detrimentally affect the subject property.

Prior to implementation of the remedial action, a Licensed Site Remediation Professional (LSRP) must prepare a Remedial Action Workplan (RAW). Once the remediation is complete, the LSRP must also prepare a Remedial Action Report (RAR) including the Deed Notice and issue a Response Action Outcome (RAO) for the Site.

Furthermore, a Receptor Evaluation and Baseline Ecological Assessment (RE/BEA)

should be completed for the subject properties within 1-year of the submittal of the NJDEP Confirmed Discharge Notification Form. The RE/BEA will identify any groundwater contamination receptors and sensitive populations that may need to be addressed during the remedial action. Public Notification will also need to be provided a minimum of 14-days prior to the Remedial Action (e.g., capping).

5.2 AOC-2: Potential USTs

Results – The various properties have been developed and modified throughout the last 100-years according to aerial imagery and Sanborn Fire Insurance Maps. Some of the former structures may have utilized heating oil underground storage tanks (UST).

Boswell contracted Infrared Services, Inc. (Infrared) to perform a geophysical survey of the subject properties in order to confirm the presence/absence of USTs or other subsurface anomalies. The geophysical survey identified one (1) distinct ground penetrating radar (GPR) anomaly. The anomaly was located in Lot 15 on the east side of Block 12 inside the foundation of the former 3-story flat. One (1) soil boring (SB-4) was advanced inside of the geophysical anomaly which was discovered to be a 2' interval of crushed brick that may have accounted for the discrepancy in the GPR signatures.

No subsurface anomalies exhibited "UST-like" signatures and Infrared concluded that there were no abandoned or forgotten tanks on the property.

Recommendation - Based upon the geophysical survey results, the absence of visually identifiable petroleum contamination in the soil borings, Boswell recommends no further investigation for potential AOC-2.

5.3 AOC-3: Off-Site Former UST Releases

Results – The First Search radius report identified the presence of off-site UST releases of gasoline and fuel oil nearby the site. Based on the age of the releases (~10 years ago), the potential contaminants have a low possibility of impacting the site. Moreover, it is the obligation of the responsible party (RP) to address contamination migrating from their site. The temporary well point groundwater sample did not detect any targeted volatile organic compounds (VOC) above the NJDEP GQC or NJDEP Vapor Intrusion (VI) Groundwater Screening Level.

Recommendation – Since the groundwater sample did not exhibit any VOCs above the NJDEP GQC, Boswell does not have any evidence that nearby contaminated sites are affecting the subject property's groundwater. Therefore, Boswell recommends no further investigation for potential AOC.

SITE INVESTIGATION REPORT CHECKLIST

- [x] Cover Sheets
- [x] Confirmed Discharge Notification Form
- [x] PA/SI Report Form
- [x] Site Location Maps
- [x] United States Geological Survey (USGS) Quadrangle Map
- [x] New Jersey Geological Survey Bedrock Geologic Map & Soil Survey Map
- [x] Site Photodocumentation
- [x] Geophysical Survey
- [x] Soil Boring Logs
- [ ] ~~Well Point Purge Data~~
- [x] Sampling Parameter Summary Table
- [x] Analytical Results Summary Table
- [x] Quality Assurance/Quality Control Results Summary Table
- [x] Estimated Cost Summary Table
- [x] Qualifications
- [ ] New Jersey Tier II Reduced Deliverables Package
- [ ] Electronic Deliverables Data Packages
- [x] Figure 1: AOC Location Map
- [ ] Figure 2: Sample Location Plan
- [ ] Subs Paid
- [x] Figure 3 Historic Fill Map

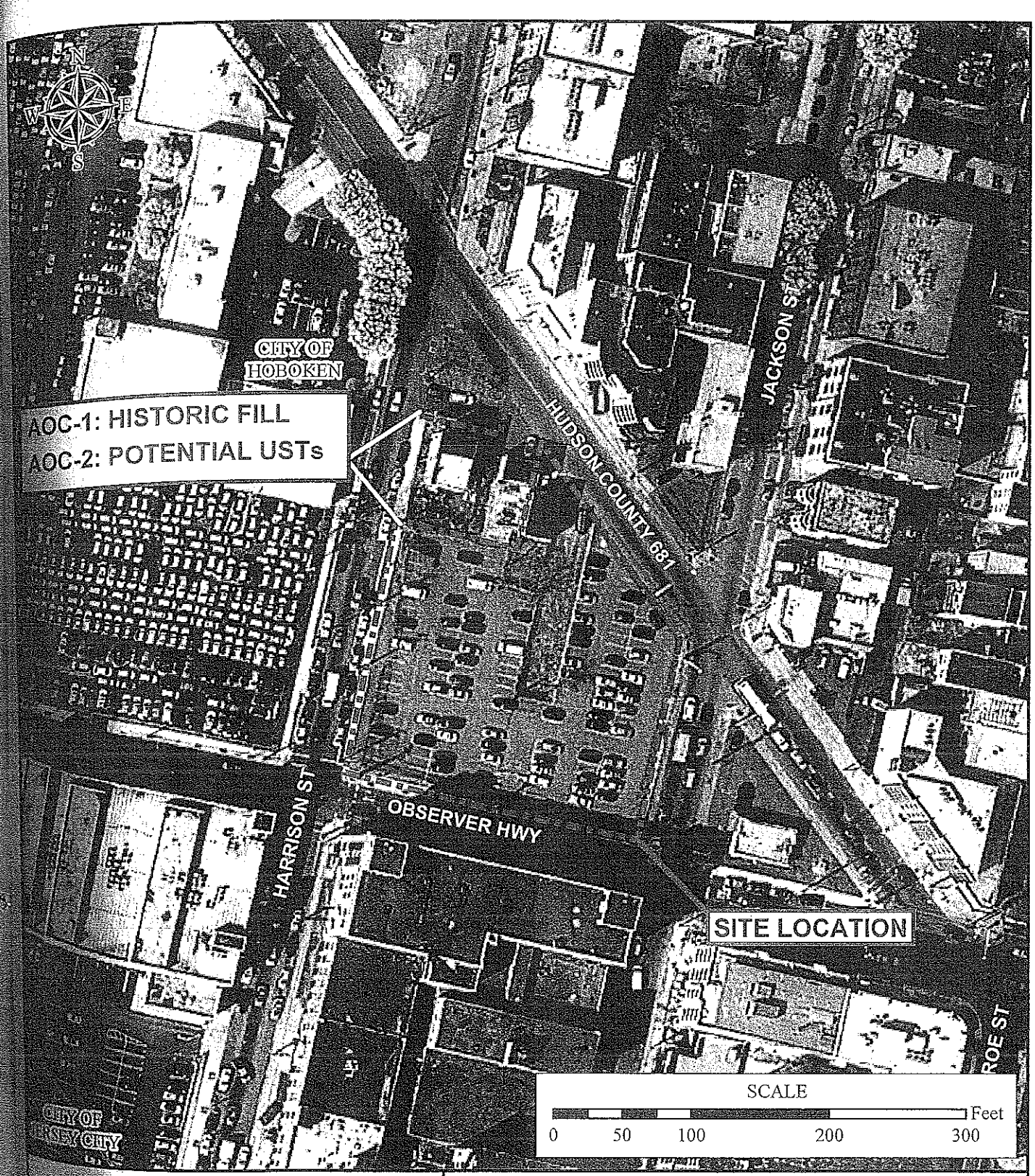
- [x] Signature
- [x] Signature given to RM for signature

Project Name: Block 12 SI

Project Number: HO-458

FIGURE 1

Area of Concern (AOC) Location Map



LEGEND

AOC LOCATION BOUNDARIES

SOURCE:

HUDSON COUNTY ROADS, 2010
NJ STATE COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJDEP, 2007 ORTHOPHOTOGRAPHY, (DISK 12 OF 13)
NJDOT ROAD DATA, 2010

AREA OF CONCERN (AOC) LOCATION MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: CEA	SCALE: 1" = 100' DATE: JUNE 2012	JOB NO. HO-458 FIGURE AOC MAP

FIGURE 2

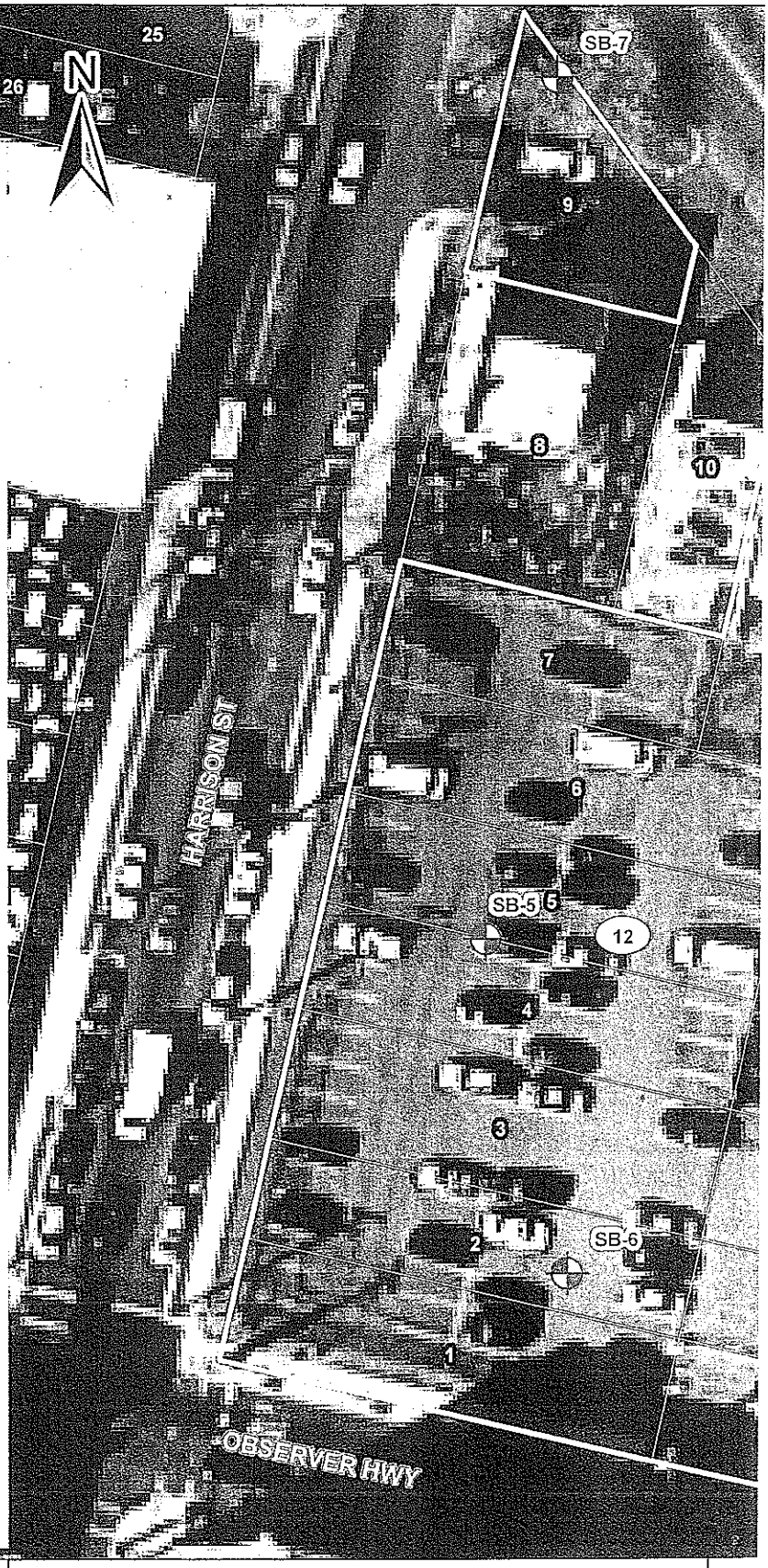
Sampling Plan

TEMPORARY WELL POINT GROUNDWATER SAMPLE RESULTS

Sample Number	TWP-1		
Lab ID	JB6521-1		
Matrix	Aqueous		
PID	0 ppm		
Sampler	MF, CC		
Sampling Date	5/14/2012		
Sampling Time	10:20		
Units	µg/kg (ppm)		
Analytical Parameter		NJDEP GQC +	NJDEP VI GSL ++
Volatile Organic Compounds (TCL VOA+)			
Carbon disulfide	0.32 J	700	710
Chloroethane	1.3	-	4
Methyl-Tertiary-Butyl-Ether (MTBE)	0.58 J	70	78
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	-
Semi-volatile Organic Compounds (TCL ABN+)			
Acenaphthene	0.599	400	
Acenaphthylene	0.117	100	
Anthracene	0.274	2,000	
Benzo(a)anthracene	**0.683**	0.1	
Benzo (a) pyrene	**0.58**	0.1	
Benzo(b)fluoranthene	**0.608**	0.2	
Benzo(g,h,i)perylene	0.493	100	
Benzo(k)fluoranthene	0.42	0.5	
bis(2-Ethylhexyl)phthalate	22	3	
Chrysene	0.61	5	
Dibenz(a,h)anthracene	0.188	0.3	
Fluoranthene	0.953	300	
Fluorene	0.201	300	
Indeno(1,2,3-cd)pyrene	**0.428**	0.2	
Naphthalene	ND	300	
Phenanthrene	0.88	100	
Pyrene	1.01	200	
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	
TAL Metals			
Aluminum	**8,650**	200	
Antimony	**14.9**	6	
Arsenic	**24.5**	3	
Barium	521	6,000	
Beryllium	<1.0	1	
Cadmium	<3.0	4	
Calcium	140,000	-	
Chromium (total)	22.3	70	
Cobalt	<50	-	
Copper	578	1,300	
Iron	**39,200**	300	
Lead	**738**	5	
Magnesium	35,400	-	
Manganese	**1,100**	50	
Mercury	**2.6**	2	
Nickel	20.8	100	
Potassium	18,700	-	
Selenium	<10	40	
Silver	<10	40	
Sodium	**198,000**	50,000	
Thallium	<2.0	2	
Vanadium	<50	-	
Zinc	387	2,000	
Polychlorinated Biphenyls (TCL PCB)			
Total PCBs	ND	0.5	

NOTES:

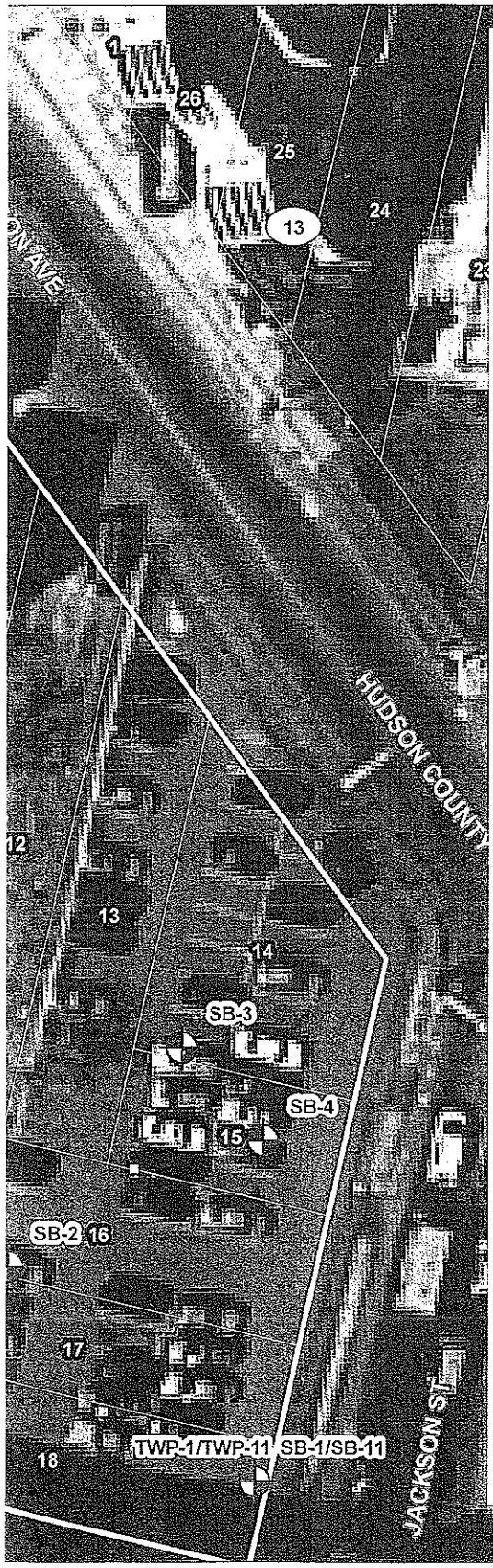
ND = Undetected at Laboratory Reporting Limit (RL)
J = Indicates an estimated value
+ = NJDEP Class II-A Aquifer Groundwater Quality Criteria
++ = NJDEP Generic Vapor Intrusion Groundwater Screening Level
* = Carcinogenic Synthetic Organic Compounds - 5 ppb each/25 ppb total
** = Non-Carcinogenic Synthetic Organic Compounds - 100 ppb each/500 ppb total
PID = Photoionization Detector
ppm = parts per million
µg/L = micrograms per liter = parts per billion = ppb
TAL = Target Analyte List
< = Value shown is less than laboratory RL
bold = Exceeds NJDEP Class II-A Groundwater Quality Criteria (GQC)



LEGEND

SITE BOUNDARIES
HUDSON COUNTY PARCELS
(10) BLOCK NUMBER
(18) LOT NUMBER
SOIL BORING AND TEMPORARY WELL POINT LOCATION
SOIL BORING LOCATION

Boswell McClave Engineering
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 Philips Avenue South Hackensack, NJ 07606



SOIL SAMPLE RESULTS

Sample Number	SB-1	SB-3	SB-6	SB-7	NJDEP Soil Remediation Standards		
Lab ID	JB6521-4	JB6521-6	JB6934-1 & JB6934-1A	JB6934-2, JB6934-2A & JB6934-2R			
Sampling Date	5/14/2012	5/14/2012	5/17/2012	5/17/2012			
Matrix	Soil	Soil	Soil	Soil			
Depth	1.5'-2.0'	4.0'-4.5'	9.0'-9.5'	2.5'-3.0'			
PID	0.4 ppm	0.4 ppm	0.5 ppm	0.5 ppm			
Sampler	MF, CC	MF, CC	MF, CC	MF, CC			
Sampling Time	10:00	11:30	9:30	9:45			
Units	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)			
Analytical Parameter							
NJ Category-2 Non-Fractionated Extractable Petroleum Hydrocarbons (EPH)					RDC	NRDC	IGWSSL
EPH (C9-C28)	~	~	~	203	-	-	-
EPH (>C28-C40)	~	~	~	220	-	-	-
Total EPH (C9-C40)	~	~	~	423	1,700 / 5,100 / 8,000*		-
Volatile Organic Compounds (TCL VOA)							
Benzene	~	~	~	0.0013 J	2	5	0.005
Toluene	~	~	~	0.00067 J	6,300	91,000	4
Tentitively Identified Compounds (TICs) Volatiles	~	~	~	ND	-	-	-
Semi-volatile Organic Compounds (TCL ABN)							
Acenaphthene	4.12	0.0503	0.0471	ND	3,400	37,000	74
Acenaphthylene	9.38	0.0855	ND	ND	-	300,000	-
Anthracene	26.5	0.186	0.119	0.0217 J	17,000	30,000	1,500
Benzo(a)anthracene	**56.8**	**0.696**	0.25	0.0721	0.6	2	0.5
Benzo(a)pyrene	**51.7**	**0.615**	**0.269**	0.0693	0.2	0.2	0.2
Benzo(b)fluoranthene	**59.2**	**0.801**	0.224	0.0886	0.6	2	2
Benzo(g,h,i)perylene	22.7	0.364	0.135	0.084	380,000	30,000	-
Benzo(k)fluoranthene	25	0.344	0.172	0.0641	6	23	16
Carbazole	~	~	~	0.0480 J	24	96	-
Chrysene	**52.2**	0.705	0.225	0.0927	62	230	52
Dibenzo(a,h)anthracene	**9.88**	0.129	0.0633	0.0268 J	0.2	0.2	0.5
Diethyl phthalate	~	~	~	0.0808 J	49,000	550,000	57
bis(2-Ethylhexyl)phthalate	~	~	~	0.142	35	140	790
Fluoranthene	114	1.59	0.389	0.134	2,300	24,000	840
Fluorene	14.8	0.04	0.0481	ND	2,300	24,000	110
Indeno(1,2,3-cd)pyrene	**24.3**	0.325	0.139	0.0585	0.6	2	5
2-Methylnaphthalene	~	~	~	0.0763 J	230	2,400	5
Naphthalene	3.35	0.0208 J	0.0150 J	ND	31	340	0.2
Phenanthrene	73.9	0.834	0.345	0.0892	-	300,000	-
Pyrene	85.9	1.64	0.395	0.152	1,700	18,000	550
Tentitively Identified Compounds (TICs) Semi-Volatiles	~	~	~	1.45 J	-	-	-
TAL Metals							
Aluminum	**7,820**	**6,440**	**9,840**	**5,620**	78,000	-	3,900
Antimony	**12.5**	<2.4	<2.5	<2.2	31	450	6
Arsenic	**43**	10.2	7.2	18	19	19	19
Barium	346	108	95	204	16,000	59,000	1,300
Beryllium	0.4	0.33	**0.81**	**0.72**	16	140	0.5
Cadmium	**1.7**	<0.60	<0.61	**2.7**	78	78	1
Calcium	10,800	12,400	10,200	5,040	-	-	-
Chromium (total)	31	8.7	22.5	39.7	-	-	-
Cobalt	10.3	<6.0	7.1	<5.6	1,600	590	59
Copper	197	45.6	32.9	80.6	3,100	45,000	7,300
Iron	24,400	10,000	17,900	21,300	-	-	-
Lead	**866**	**157**	**200**	**678**	400	800	59
Magnesium	5,360	1,140	4,530	1,500	-	-	-
Manganese	**181**	**129**	**591**	**158**	11,000	5,900	42
Mercury	**9**	**0.88**	**0.8**	**0.38**	23	65	0.1
Nickel	**51.7**	6.1	22.3	**36.4**	1,600	23,000	31
Potassium	<1,500	<1,200	2,370	<1,100	-	-	-
Selenium	<3.1	<2.4	<2.5	<2.2	390	5,700	7
Silver	**4.4**	<0.60	<0.61	0.91	390	5,700	1
Sodium	<1,500	<1,200	<1,200	<1,100	-	-	-
Thallium	<1.5	<1.2	<1.2	<1.1	6	79	3
Vanadium	27.8	11.7	28.7	43.6	78	1,100	-
Zinc	**1,880**	87.7	83.3	**1,760**	23,000	110,000	600
Polychlorinated Biphenyls (TCL PCB)							
Total PCB	~	~	~	ND	0.2	1	0.2

NOTES:

RDC = NJDEP Residential Direct Contact Soil Remediation Standard
NRDC = NJDEP Non-Residential Direct Contact Soil Remediation Standard
IGWSSL = Impact to Groundwater Soil Screening Level
bold = Exceeds NJDEP RDCSRS
bold = Exceeds NJDEP IGWSSL
J = Estimated Value
PID = Photoionization Detector
- = Remediation Standard Not Established
ND = Not detected
mg/kg = milligrams per kilogram = ppm = parts per million
~ = Not analyzed
< = Value shown is less than laboratory RL
* ecological concern/soil remediation standard/residual product limits

SCALE

Feet

20 40 80 120

NTY PARCEL DATA, 2010
RTHOPHOTOGRAPHY, (DISK 12 OF 13)
DATA, 2010

SAMPLE LOCATION PLAN

BLOCK 12, LOTS 1-7, 9, AND 11-18, CITY OF HOBOKEN

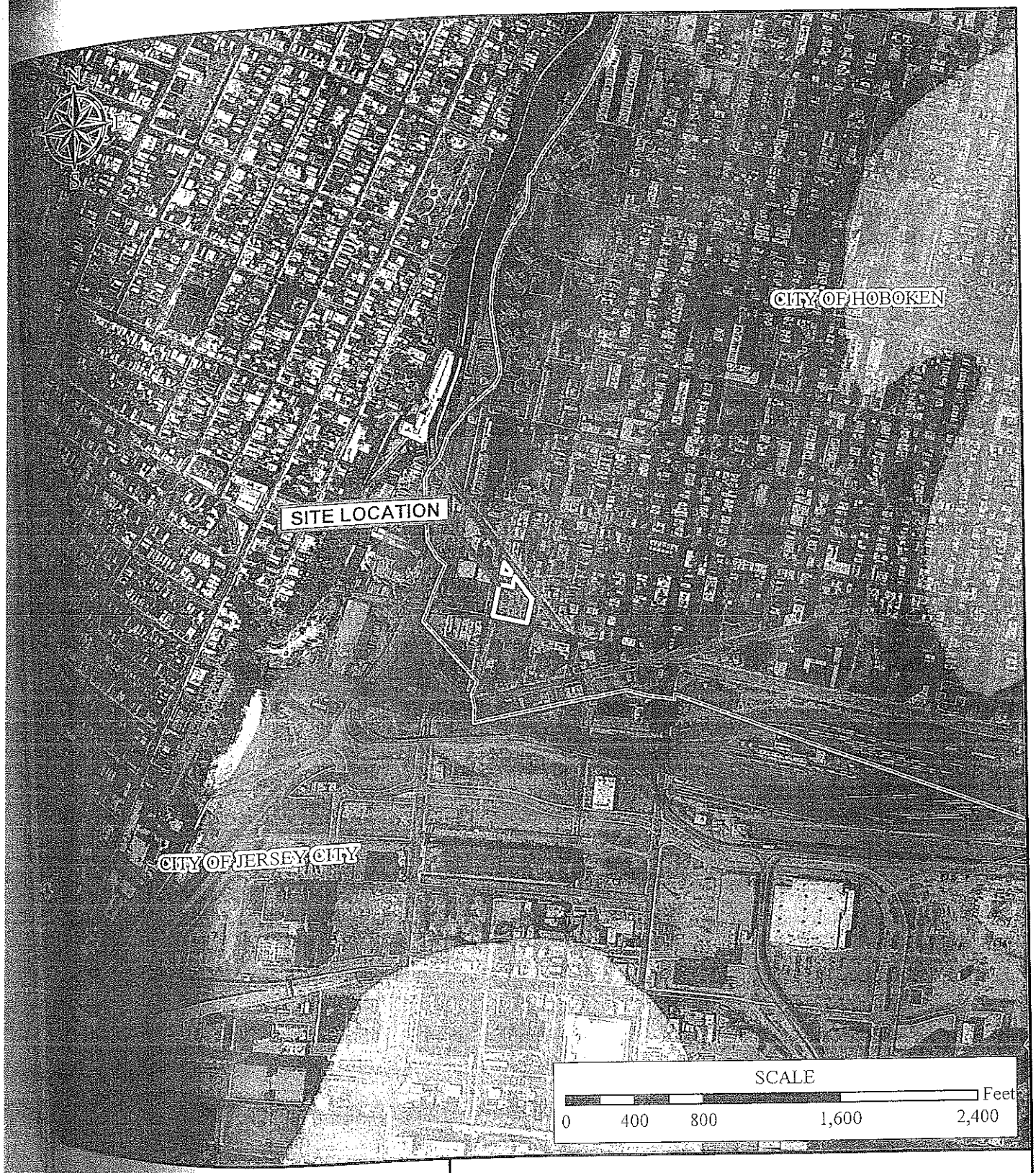
HUDSON COUNTY NEW JERSEY

SURVEYED BY N/A	DESIGNED BY CJC	SCALE	JOB NO.	DATE
DRAWN BY CJC	CHECKED BY CEA	1 in = 40 ft	HO-458	06/07/2012

DRAWING NO. SAMPLING PLAN FIGURE NO. 2

FIGURE 3

Historic Fill Aerial Overlay Map



LEGEND

BOUNDARIES

AL BOUNDARIES

HISTORIC FILL

FILL AREAS

NON-FILL AREAS

HISTORIC FILL DATASET, 2005

AND MUNICIPALITY BOUNDARIES, 2010

HOGRAPHY (Disk 12 of 13), 2007

HISTORIC FILL MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 800' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE HIST. FILL

APPENDIX A

NJDEP Forms

New Jersey Department of Environmental Protection
Site Remediation Program

CONFIRMED DISCHARGE NOTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Block 12, Lots 1-7, 9, 11-18

List all AKAs:

Street Address: 57-69 Harrison Street, 51-59 Paterson Avenue, & 58-64 Jackson Street

Municipality: City of Hoboken (Township, Borough or City)

County: Hudson Zip Code: 07030

Program Interest (PI) Number(s): Case Tracking Number(s):

Site Remediation Initiated Pursuant to N.J.A.C. 7:26C-2.

State Plane Coordinates for a central location at the site: Easting: 619,035 Northing: 694,045

Municipal Block(s) and Lot(s):

Block # 12	Lot # 1, 2, 3, 4, 5, 6, 7, 9,	Block # 12	Lot # 11, 12, 13, 14, 15,		
Block # 12	Lot # 16, 17, and 18	Block #	Lot #		
Block #	Lot #	Block #	Lot #		
Block #	Lot #	Block #	Lot #		

SECTION B. DISCHARGE BEING REPORTED WITH THIS SUBMISSION

Incident Number/Com. Center Number for the discharge being reported with this submission:

Is there an existing remedial case at the site? ☐ Yes ☒ No

If "Yes," would you like to combine this incident number with the existing case? ☐ Yes ☐ No

What is the Tracking Number for the existing remedial you would like to combine this incident number with:

SECTION C. CURRENT OWNER OF THE SITE

Salutation/Name of Organization: Ponte Equities, Inc./Unity Environmental

First Name of Contact: Blake Last Name of Contact: Davis

Title: Attorney

Phone Number: (201) 863-4400 Ext: Fax:

Street Address: 268 West Street

City: New York State: New York Zip Code: 10013

Email Address:

SECTION D. SITE USE

Site Use (check all that apply)

- ☐ Park or recreational use
- ☒ Vacant
- ☐ Government
- ☐ Other:

Intended Future Site Use, if known (check all that apply)

- ☐ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☒ Park or recreational use
- ☐ Vacant
- ☐ Government
- ☐ Future site use unknown

SECTION E. DESCRIPTION OF DISCHARGE

Date Discharge Occurred: _____ Date Discharge Notification to the Department: _____

Media Contaminated:

☒ Soil ☒ Groundwater ☐ Surface Water Receiving Water: _____

Description of Discharge:

Historic fill was visually identified in soil borings. Subsurface soil samples detected Polycyclic Aromatic Hydrocarbons (PAH), arsenic, and lead above the NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS). Groundwater contained PAHs and metals: aluminum, antimony, arsenic, iron, lead, manganese, mercury, and sodium above the NJDEP Groundwater Quality Criterion (GQC). Date of release of historic fill material is unknown.

SECTION F. FEDERAL RELEASE

Is this discharge related to a release from a Federally regulated UST? ..... ☐ Yes ☒ No

If "Yes," please answer the following questions:

Tank ID (from Registration): _____ Tank System Size: _____

Contents: _____

Source of Federal Release (check appropriate category):

- ☐ Dispenser
- ☐ Vent Pipe
- ☐ Fill Port/Fill Lines
- ☐ Piping (Upgraded)
- ☐ Piping (Not Upgraded)
- ☐ Spill Bucket
- ☐ Tank (Upgraded)
- ☐ Tank (Not Upgraded)
- ☐ Vapor System Recovery
- ☐ Submersible Turbine Pump Area
- ☐ Other (Specify) _____
- ☐ Delivery Problem
- ☐ Unknown

Cause of Federal Release (check appropriate category):

- ☐ Spill
- ☐ Overfill
- ☐ Physical/Mechanical Damage
- ☐ Loose Fittings
- ☐ Installation Problem
- ☐ Vapor Release
- ☐ Other (Specify) _____
- ☐ Corrosion
- ☐ Unknown

SECTION G. CASE TYPE: (check all that apply)

- ☐ Child Care Center
- ☐ School
- ☐ School Development Authority (SDA)
- ☐ UST Grant/Loan
- ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☐ Administrative Consent Order (ACO)
- ☐ Remediation Agreement (RA)/Remediation Certification
- ☐ Brownfield Development Area (BDA)
- ☐ Site is located within an economic development priority area
- ☐ ISRA
- ☐ Regulated Underground Storage Tank (UST)
- ☐ Landfill
- ☐ Federal oversight (RCRA, CERCLA, USDOD, TSCA, etc.)
- ☐ Coal Gas
- ☐ Chrome Site (Chromate chemical production waste)
- ☒ Spill Act Discharge
- ☐ Government Entity
- ☐ Not Applicable

SECTION H. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: The City of Hoboken

Representative First Name: Quentin Representative Last Name: Wiest

Title: Business Administrator

Phone Number: (201) 420-2059 Ext: Fax: (201) 420-9513

Mailing Address: 94 Washington Street

City/Town: Hoboken State: New Jersey Zip Code: 07030

Email Address: qwiest@hobokennj.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Quentin Wiest Date: 6-11-12

Name/Title: Quentin Wiest/Business Administrator **No Changes Since Last Submittal** ☐

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

New Jersey Department of Environmental Protection
Site Remediation Program
PRELIMINARY ASSESSMENT / SITE INVESTIGATION
(Also Use this Form For UST Unknown Source Investigations)

Date Stamp
(For Department use only)

A Phase I or Phase II is not equivalent to a Preliminary Assessment; therefore, it will not be an acceptable substitution.

SECTION A. SITE NAME AND LOCATION

Site Name: Block 12, Lots 1-7, 9, 11-18

List all AKAs:

Street Address: 57-69 Harrison Street, 51-59 Paterson Avenue, & 58-64 Jackson Street

Municipality: City of Hoboken (Township, Borough or City)

County: Hudson Zip Code: 07030

Incident Number(s)/Com. Center Number(s):

Program Interest (PI) Number(s): 585028 Case Tracking Number(s):

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2:

State Plane Coordinates for a central location at the site: Easting: 619,035 Northing: 694,045

Municipal Block(s) and Lot(s):

Block #	12	Lot #	1, 2, 3, 4, 5, 6, 7, 9,	Block #	12	Lot #	11, 12, 13, 14, 15,
Block #	12	Lot #	16, 17, and 18	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☒ No

If "Yes," please list the Case Manager:

SECTION C. SUBMITTAL STATUS

	Not Applicable	Included in this Submission	Previously Submitted	Date Of Submission	Date of Revised Submission	Date of Document Withdrawal
Public Notification	☒	☐	☐			
Immediate Environmental Concern Report	☒	☐	☐			
IEC Engineered System Response Action Report	☒	☐	☐			
Vapor Concern Mitigation Report	☒	☐	☐			
LNAPL Interim Remedial Measure Report	☒	☐	☐			
Preliminary Assessment Report	☐	☒	☐			
Receptor Evaluation	☒	☐	☐			
Site Investigation Report	☐	☒	☐			
Remedial Investigation/Remedial Action Work Plan	☒	☐	☐			
Remedial Action Report	☒	☐	☐			
Response Action Outcome	☒	☐	☐			
Alternative Soil Remediation Standard and/or Screening level Application Form	☒	☐	☐			
Case Inventory Document	☐	☒	☐			

Permit Application – list:	☒	☐	☐			
	☐	☐	☐			
	☐	☐	☐			
	☐	☐	☐			
Radionuclide Remedial Investigation Workplan	☒	☐	☐			
Radionuclide Remedial Investigation Report	☒	☐	☐			
Radionuclide Remedial Action Workplan	☒	☐	☐			
Radionuclide Remedial Action Report	☒	☐	☐			

SECTION D. SITE USE

Current Site Use (check all that apply)

- ☐ Industrial
- ☒ Residential
- ☒ Commercial
- ☐ School or child care
- ☐ Agricultural
- ☐ Park or recreational use
- ☒ Vacant
- ☐ Government
- ☐ Other: _____

Intended Future Site Use, if known (check all that apply)

- ☐ Industrial
- ☐ Residential
- ☐ Commercial
- ☐ School or child care
- ☒ Park or recreational use
- ☐ Vacant
- ☐ Government
- ☐ Future site use unknown

SECTION E. CASE TYPE: (check all that apply)

- ☐ Child Care Facility
- ☐ School facility
- ☐ School Development Authority (SDA)
- ☐ UST Grant/Loan
- ☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ☐ Administrative Consent Order (ACO)
- ☐ Remediation Agreement (RA)
- ☐ Brownfield Development Area (BDA)
- ☐ Site is located within an economic development priority area
- ☐ ISRA
- ☐ Regulated Underground Storage Tank (UST)
- ☐ Landfill
- ☐ Federal oversight (RCRA, CERCLA, DOD, TSCA, etc.)
- ☐ Coal Gas
- ☐ Chrome Site (Chromate chemical production waste)
- ☒ Spill Act Discharge
- ☒ Due Diligence with RAO
- ☐ Not Applicable

SECTION F. PUBLIC FUNDS

Did the remediation utilize public funds? ..... ☒ Yes ☐ No

If "Yes," check applicable:

- ☐ UST Grant
- ☐ HDSRF Grant
- ☐ Spill Fund
- ☐ UST Loan
- ☐ HDSRF Loan
- ☐ Schools Development Authority
- ☐ Brownfield Reimbursement Program
- ☐ Landfill Reimbursement Program
- ☒ NJDEP Green Acres Program

SECTION G. GENERAL

1. Was an inspection of the site conducted? ..... ☒ Yes ☐ No ☐ NA
   Date of the inspection 10/17/2011
2. Did the PA identify any areas of concern? ..... ☒ Yes ☐ No ☐ NA
   If "Yes," please complete section H2.
3. What page or appendix is the site map indicating all of the areas of concern located? Figure 1
4. Did the PA identify any current or historic industrial, commercial, agricultural or residential use at the site dating back to the time the site was naturally vegetated? ..... ☒ Yes ☐ No ☐ NA
   If "Yes," please complete section H1.
5. Prior to this submittal have any NFAs/RAOs been issued for this site? ..... ☐ Yes ☒ No
   a. Does the site currently have a Deed Notice? ..... ☐ Yes ☒ No
   b. Does the site currently have a CEA? ..... ☐ Yes ☒ No
   c. Has an order of magnitude evaluation been performed? ..... ☐ Yes ☒ No
6. Is the ground water at the site classified as a Class I Ground Water? ..... ☐ Yes ☒ No
7. Are there potable wells on-site? ..... ☐ Yes ☒ No

8. Has a well search been conducted pursuant to N.J.A.C. 7:26E-1.17? ☐ Yes ☒ No

   a. If "Yes," are there any potable wells within 200' of the AOCs listed in H2 or within 200' of the site boundary? ☐ Yes ☐ No

9. Is an environmentally sensitive natural resource (ESNR) present on, adjacent to, or potentially impacted by the site? ☐ Yes ☒ No

   a. If "Yes," are there visible signs of impact/impairment (e.g., discolored media, stressed vegetation, discharge/spill, seeps, fish kill)? ☐ Yes ☐ No

   b. Provide a scaled figure that documents the presence or absence of an ESNR.

10. Has the site investigation been completed for:

    Specific Areas Of Concern (AOC)s? ☐ Yes ☒ No

    Entire Site based on a PA? ☒ Yes ☐ No

11. Have all of the potentially contaminated AOCs identified in the PA been addressed within the regulatory timeframe? ☒ Yes ☐ No ☐ NA

SECTION H. SITE INFORMATION

H1. Current and Historic Operators/Operations (attach additional sheets as necessary)

Name of Operator	Type of Operation – e.g., dry cleaning, electro-plating, residence	Dates of Operation	
		Start	End
	*** Please See Attached Sheet ***		

H2. Areas of Concern (For PA or PA/SI Report, list each AOC; for SI Report, list only AOCs documented in this submittal.)

	Area of Concern	Currently Exists? ☒ if "Yes"	Formerly Existed? ☒ if "Yes"	Investigation: SI Conducted ☒ if "Yes"	Investigation: RI Proposed ☒ if "Yes"
1	Above ground storage tank and associated piping	☐	☐	☐	☐
2	Area of stressed vegetation	☐	☐	☐	☐
3	Area which receives flood or storm water from potentially contaminated areas	☐	☐	☐	☐
4	Chemical storage cabinet and closet	☐	☐	☐	☐
5	Compressor vent discharge	☐	☐	☐	☐
6	Discharge area pursuant to N.J.A.C. 7:1E	☐	☐	☐	☐
7	Discolored or spill area	☐	☐	☐	☐
8	Drainage swale and culvert	☐	☐	☐	☐
9	Drywell and sump	☐	☐	☐	☐
10	Dumpster	☐	☐	☐	☐
11	Electrical transformer and capacitor	☐	☐	☐	☐
12	Floor drain collection system	☐	☐	☐	☐
13	Former agricultural applied pesticide area	☐	☐	☐	☐
14	Hazardous material storage or handling area	☐	☐	☐	☐
15	Historic fill or any other fill material	☒	☐	☒	☐

16 Hydraulic lift	☐	☐	☐	☐
17 Incinerator	☐	☐	☐	☐
18 Landfill or landfarm	☐	☐	☐	☐
19 Loading and unloading area	☐	☐	☐	☐
20 Non-contact cooling water discharge	☐	☐	☐	☐
21 Open area away from production area	☐	☐	☐	☐
22 Piping, above ground and below ground pumping station, sump and pit	☐	☐	☐	☐
23 Process area sink and piping which receive process waste	☐	☐	☐	☐
24 Rail car	☐	☐	☐	☐
25 Roof leader when process operations vent to the roof	☐	☐	☐	☐
26 Septic system, leachfield or seepage pit	☐	☐	☐	☐
27 Silo	☐	☐	☐	☐
28 Sprayfield	☐	☐	☐	☐
29 Storage pad including drum and/or waste storage	☐	☐	☐	☐
30 Storm sewer and spill containment collection system	☐	☐	☐	☐
31 Storm water detention pond and fire pond	☐	☐	☐	☐
32 Surface impoundment and lagoon	☐	☐	☐	☐
33 Surface water body	☐	☐	☐	☐
34 Underground piping including industrial process sewer	☐	☐	☐	☐
35 Underground storage tank and associated piping	☐	☐	☐	☐
36 Waste pile as defined by N.J.A.C. 7:26	☐	☐	☐	☐
37 Waste water treatment	☐	☐	☐	☐
38 Other:	☐	☐	☐	☐

H3. **Complete this section only if an ISRA waiver was issued or an ISRA NFA was issued under an expedited review or Limited Site Review.**

ISRA Case #	Expedited Review	Limited Site Review	Remediation In Progress Waiver	Regulated UST Waiver	Date	Comments
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		
	☐	☐	☐	☐		

H4. **REGULATED USTs: Complete if any underground storage tanks (USTs) on site are regulated pursuant to N.J.A.C. 7:14B or if a UST Unknown Source Investigation was conducted pursuant to N.J.A.C. 7:14B-7.4.**

Have all the regulated USTs on site been registered with the Department? ..... ☐ Yes ☐ No

Have all incidents related to regulated USTs been remediated/investigated? ..... ☐ Yes ☐ No

Have any USTs been removed on/after September 4, 1990? ..... ☐ Yes ☐ No

Including this submittal, has an SI/RI report been submitted for all USTs closed on/after September 4, 1990? ..... ☐ Yes ☐ No

Was an Unknown Source Investigation conducted per N.J.A.C. 7:14B-7.4? ..... ☐ Yes ☐ No
If "No" skip to H5.

1) Did the investigation identify contamination? ☐ Yes ☐ No
If "No" skip to H5.

2) Was an ongoing release discovered? ☐ Yes ☐ No
If "No" skip to H5.

3) Was the UST system emptied and taken out-of-service? ☐ Yes ☐ No
(Note: A UST Facility Certification Questionnaire must be submitted to update the registration.)

H5. Compliance Check (Complete only if sampling of soil and/or ground water was conducted)

a. Identify the media if impacted above applicable standards/screening levels (check all that apply):
☒ soil ☒ ground water

b. Type of contamination in soil and ground water above applicable standards/screening levels (check all that apply):

Soil	Ground Water	
☐	☐	Volatile Organics
☒	☒	Polycyclic Aromatic Hydrocarbons(PAHs)
☐	☐	Acid Extractables
☐	☐	Base Neutrals (non-PAHs)
☒	☒	Metals
☐	☐	Pesticides
☐	☐	PHC
☐	☐	PCBs
☐	☐	Chromium
☐	☐	Dioxin
☐	☐	Mercury
☒	☒	Arsenic
☐	☐	Perchlorate, RDX, TNT, etc.
☐	☐	Other, specify _____

c. For all AOCs at which a SI was conducted, but no RI/RA is proposed:

1) Are any soil analytical results greater than the most stringent Direct Contact Soil Remediation Standards (DCSRS)? ☒ Yes ☐ No

2) Are any soil analytical results greater than the default Impact to Ground Water Soil Screening Levels (IGWSSL)? ☒ Yes ☐ No

3) Are any ground water analytical results greater than the Ground Water Quality Standards (GWQS)? ☒ Yes ☐ No ☐ NA

4) Are any Method Detection Limits (MDLs) greater than the applicable soil and/or ground water standards or screening levels? ☐ Yes ☒ No

5) Are any surface water analytical results greater than the most stringent, both human and ecological, Surface Water Quality Standards? ☐ Yes ☐ No ☒ NA

6) Are any sediment analytical results above the screening levels? ☐ Yes ☐ No ☒ NA

7) Are any analytical results above the vapor intrusion screening levels? ☐ Yes ☒ No ☐ NA

8) Did the SI document, via a background investigation, outside the influence of onsite AOCs and operational areas, determine that:

a) contamination is migrating onto this site per N.J.A.C. 7:26E-3.7(g)? ☐ Yes ☒ No ☐ NA

b) contamination is naturally occurring per N.J.A.C. 7:26E-3.10? ☐ Yes ☒ No ☐ NA

9) Contamination is associated with an ongoing ISRA remediation. ☐ Yes ☒ No ☐ NA

d. Have Alternative Remediation Standards (ARS) been utilized for Inhalation and/or Ingestion/Dermal pathways? ☐ Yes ☒ No

e. Have any site specific Impact to Groundwater Soil Remediation Standards (IGWSRS) been established? ☐ Yes ☒ No

f. Complete if "Yes" to question b.) 1-4, c. or d. List affected AOC(s) below; attach additional sheets if necessary.

Area of Concern (see H2 above)	Exceeds DCSRS	Exceeds IGWSSL	Exceeds GWQS	MDLs > Standards	ARS	Site Specific IGWSRS	Comments
Potential USTs	☒	☒	☒	☐	☐	☐	Soil and G.W. contaminant
	☐	☐	☐	☐	☐	☐	due to AOC-1 historic fill
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	

	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	

SECTION I. ALTERNATIVE STANDARD / VARIANCES

Alternative remediation standard

Proposing an alternative remediation standard pursuant to N.J.A.C. 7:26D-7.4, or alternate vapor intrusion screening level, check here ☐ and attach the Alternative Soil Remediation Standard and/or Screening Level Application Form as an addendum.

A site-specific screening level was developed for the evaluation of the VI pathway ..... ☐ Yes ☒ No

Variance from regulations

If the Licensed Site Remediation Professional has varied from the Technical Rules, provide the citation(s) from which the remediation varied and the page(s) in the attached document where the rationale for the variance is provided.

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

N.J.A.C. 7:26E- _____ Page _____

SECTION J. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: The City of Hoboken

Representative First Name: Quentin Representative Last Name: Wiest

Title: Business Administrator Business Affiliation: _____

Phone Number: (201) 420-2059 Ext: _____ Fax: (201) 420-9513

Mailing Address: 94 Washington Street

City/Town: Hoboken State: New Jersey ZIP Code: 07030

Email Address: qwiest@hobokennj.org

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Quentin Wiest Date: 8-7-12

Print Name & Title: Quentin Wiest, Business Administrator **No Changes Since Last Submittal** ☐

ECTION K. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

SRP ID Number: 550658

irst Name: Stephen Last Name: Boswell

hone Number: (201) 373-8905 Ext: Fax: (201) 641-1757

Mailing Address: 330 Phillips Avenue

City/Town: South Hackensack State: New Jersey Zip Code: 07606

Email Address: environmental@boswellengineering.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Stephen T. Boswell Date: 8/7/2012

LSRP Name/Title: Stephen T. Boswell, Ph.D., P.E., LSRP/President, CEO **No Changes Since Last Submittal** ☐

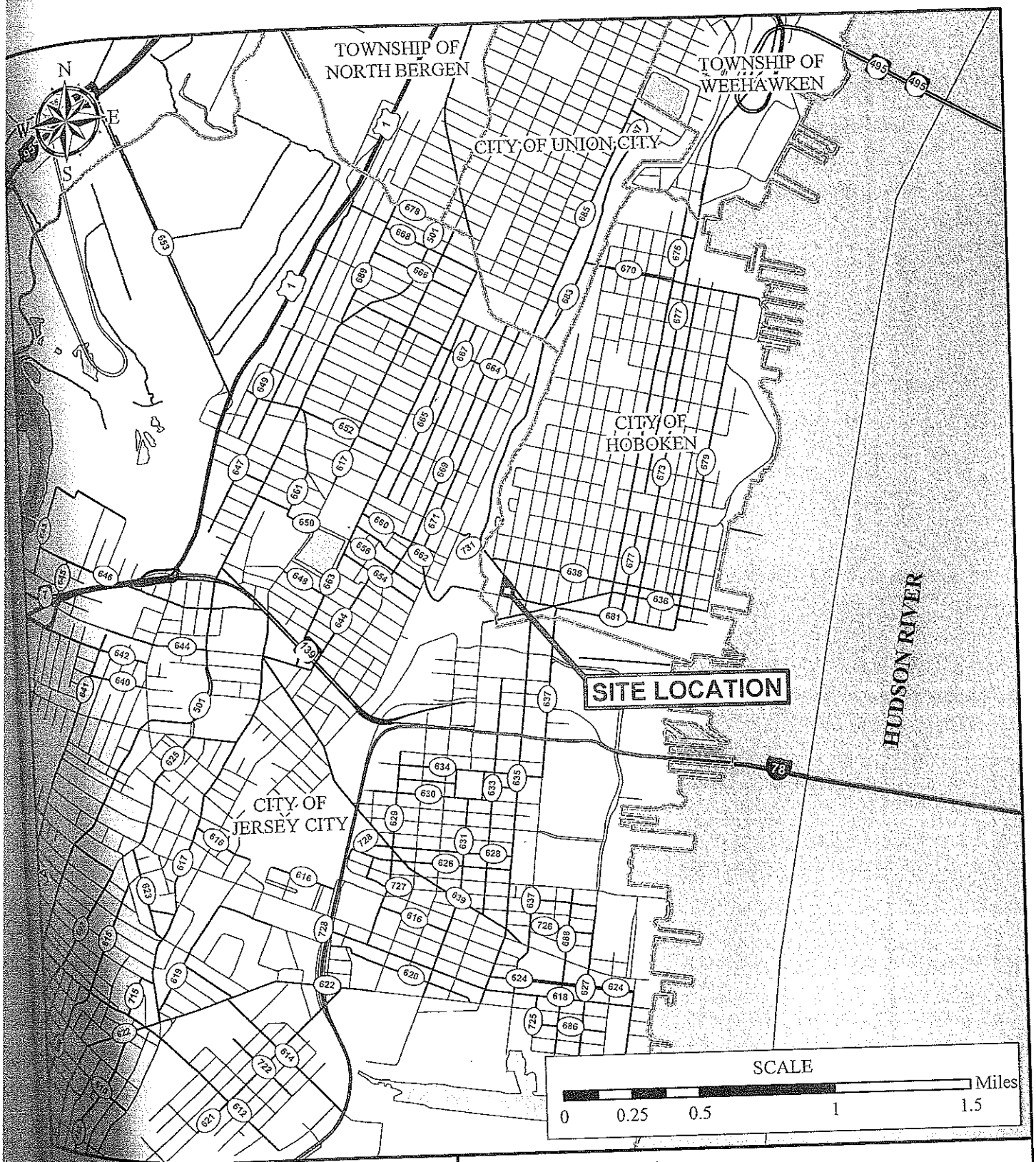
Company Name: Boswell McClave Engineering

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

APPENDIX B

Site Location Maps



LEGEND

- SITE BOUNDARY
- MUNICIPAL BOUNDARY
- WATER BODY
- ARTERIAL STREET
- COUNTY ROAD
- STATE HIGHWAY
- FEDERAL HIGHWAY
- INTERSTATE

NJ COUNTY ROADS, 2010
NJ COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJ WATER BODIES, 2004

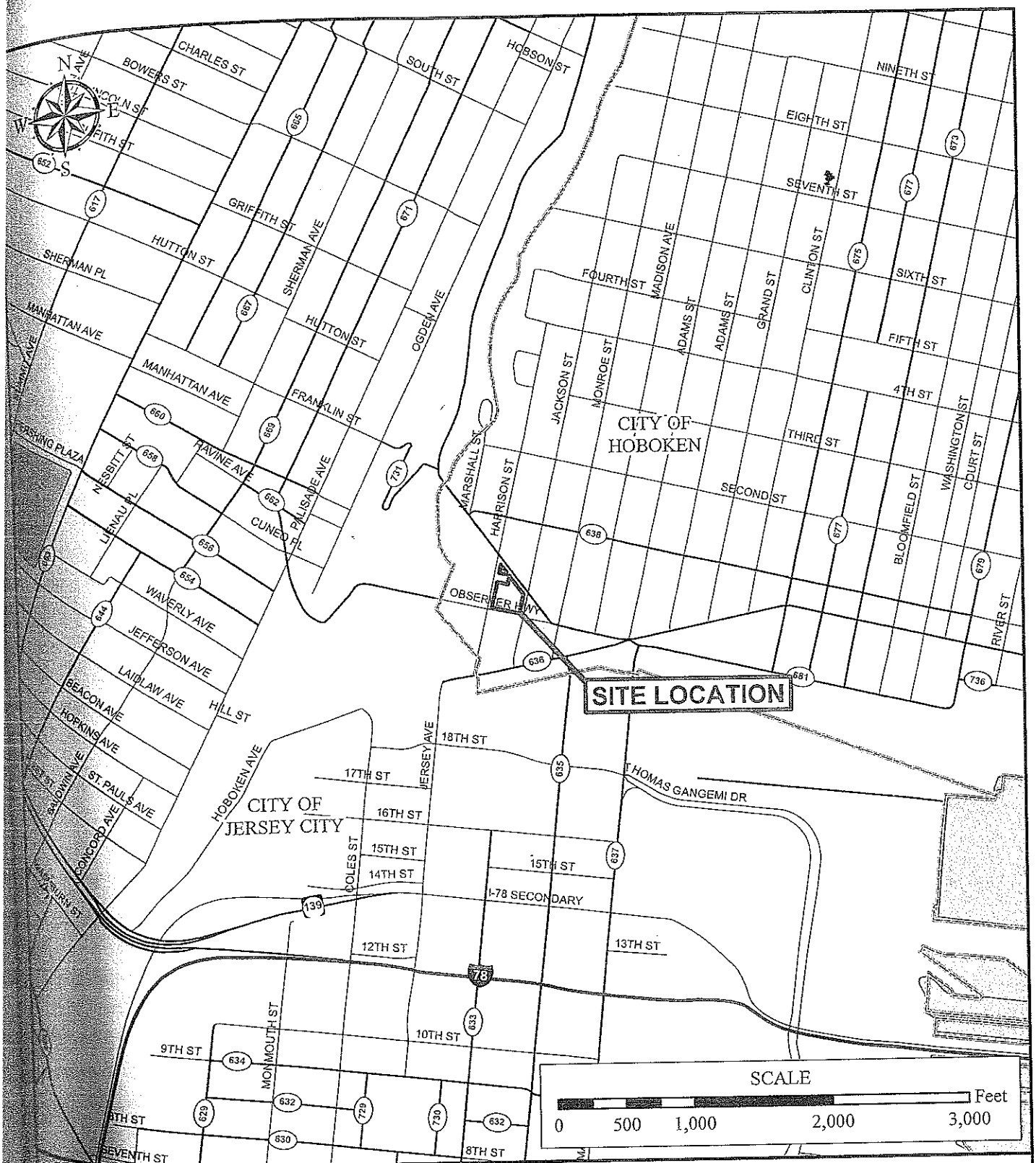
LOCATION (-) MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1/2 MILE DATE: SEPT. 2011	JOB NO. HO-458 FIGURE LOCATION (-)



LEGEND

- SITE BOUNDARY
- MUNICIPAL BOUNDARY
- WATER BODY
- ARTERIAL STREET
- COUNTY ROAD
- STATE HIGHWAY
- FEDERAL HIGHWAY
- INTERSTATE

NJ COUNTY ROADS, 2010
COUNTY AND MUNICPALITY BOUNDARIES, 2010
NJGIS WATER BODIES, 2004

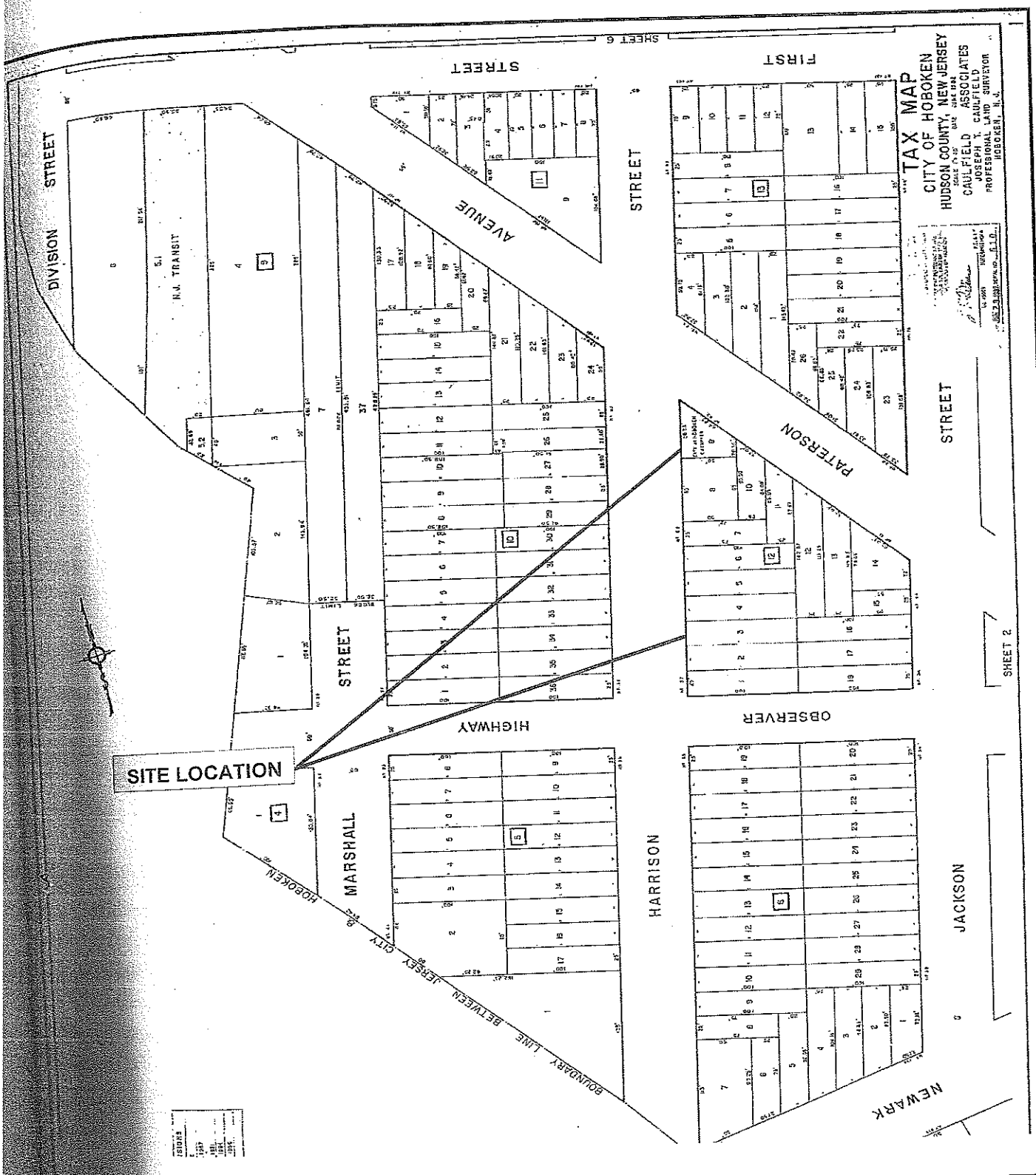
LOCATION (+) MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1,000' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE LOCATION (+)



PARCEL MAP ONLINE v1.0.4

TAX MAP
BLOCK 12 LOTS 1-18

CITY OF HOBOKEN TAX MAP
BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

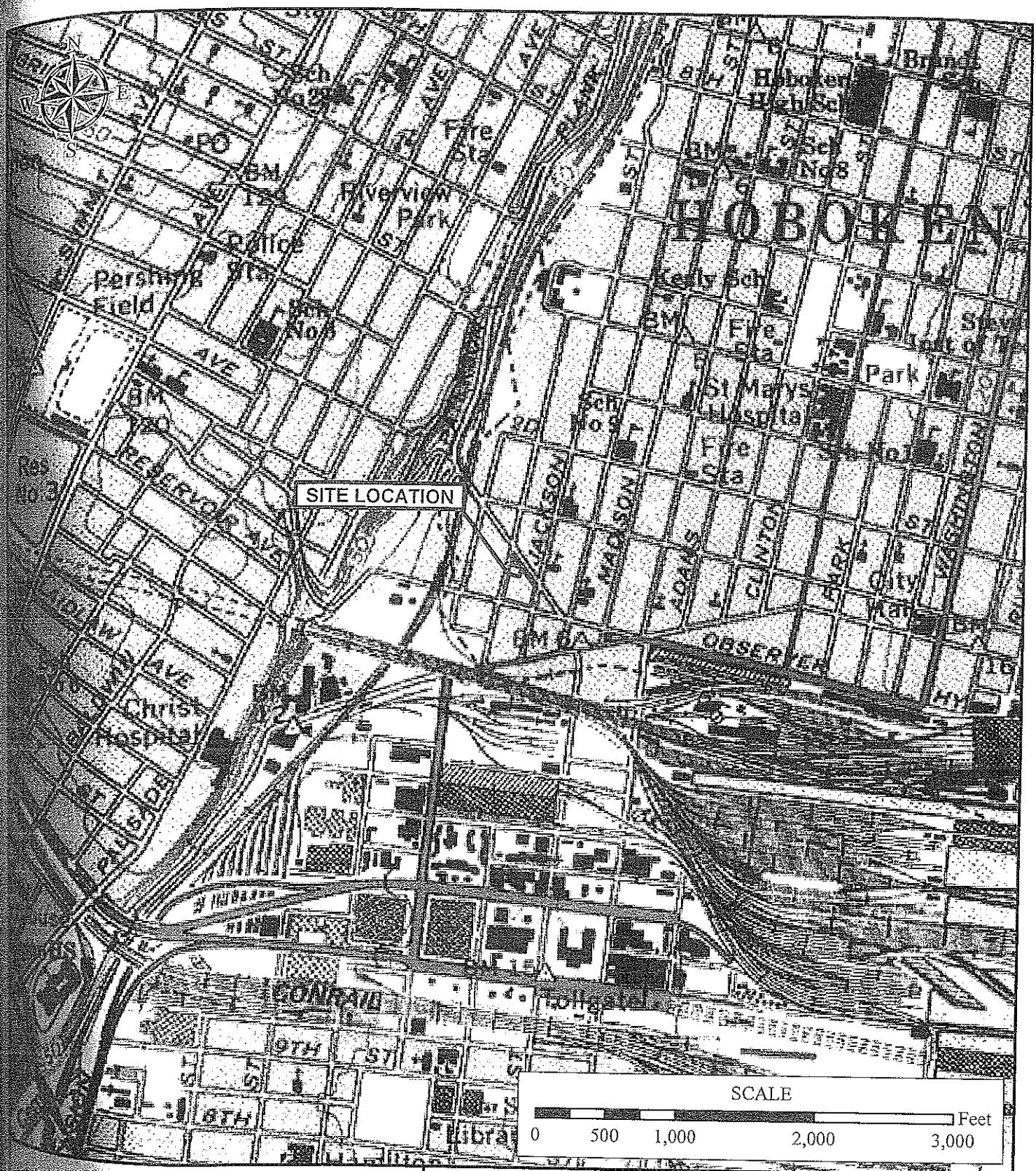
HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: CJC	SCALE: NTS	JOB NO. HO-458
CKD. BY: CEA	DATE: JUNE 2012	TAX

APPENDIX C

United States Geological Survey (USGS) Topographic Quadrangle Map



SITE BOUNDARIES

SOURCE: USGS JERSEY CITY QUADRANGLE TOPOGRAPHIC MAP

NJ STATE PLANE COORDINATES:

EASTING: 619,035
NORTHING: 694,045

U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: TJO	SCALE: 1" = 1,000' DATE: SEPT. 2011	JOB NO. HO-458 FIGURE USGS

APPENDIX D

NJDEP NJ Geological Survey (NJGS) Bedrock Geology Map/ NJDEP NJGS Surficial Geology Map

LEGEND

SITE BOUNDARY	Jd	Diabase - Jurassic Period
NORMAL FAULT	Trl	Lockatong Formation - Triassic Period
U UPTHROWN SIDE	Trs	Stockton Formation - Triassic Period
D DOWNTHROWN SIDE	CZm	Manhattan Schist - Cambrian Period
THRUST FAULT	CZs	Serpentinite - Cambrian Period

SOURCE: NJDEP NJGS BEDROCK GEOLOGY OF NEW JERSEY, 2007
NJDEP ORTHOPHOTOGRAPHY (disk 11), 2007

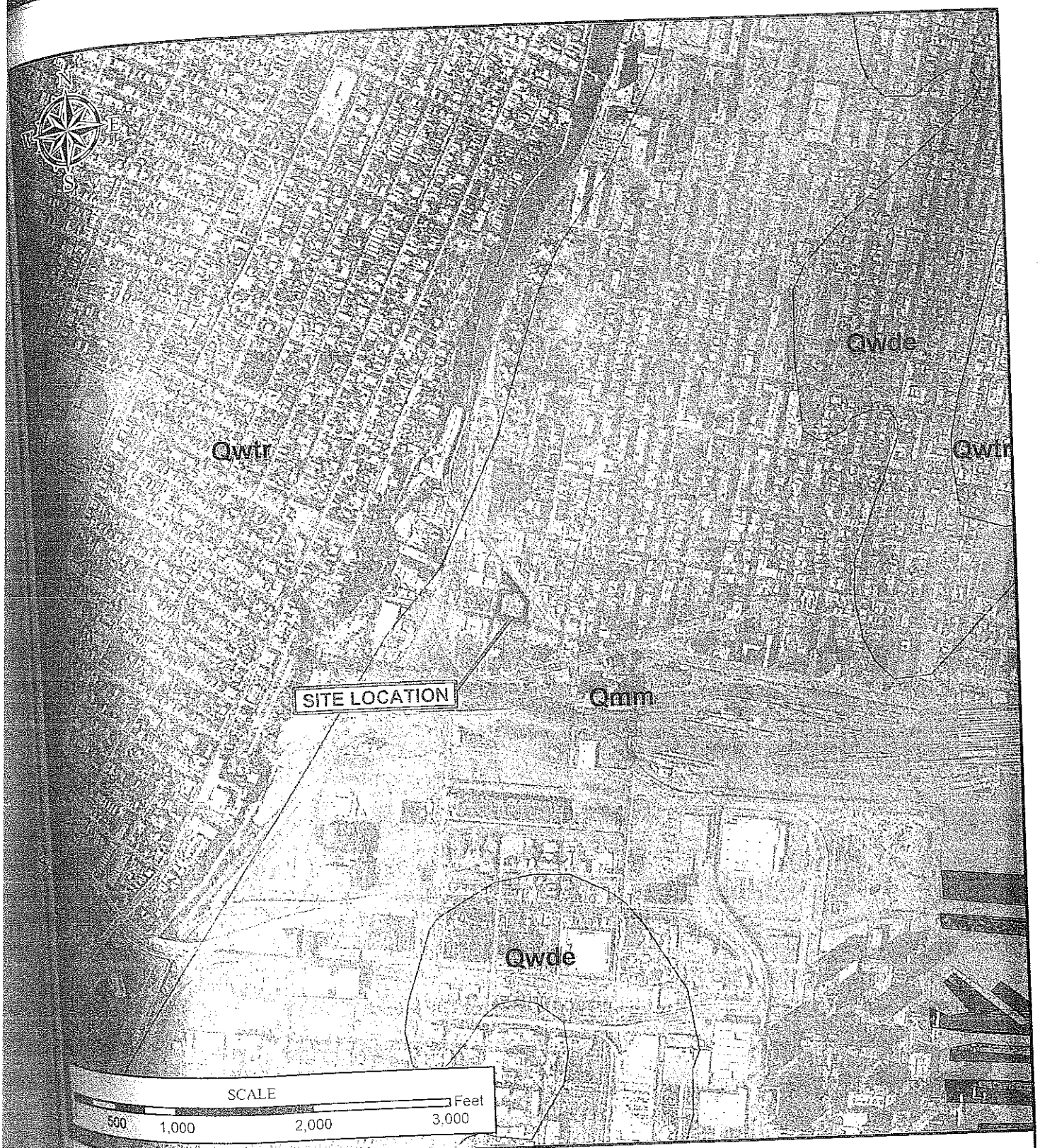
NJ GEOLOGICAL SURVEY BEDROCK GEOLOGY MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY — NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: CEA	SCALE: 1" = 1,000' DATE: JUNE 2012	JOB NO. HO-458 FIGURE GEOLOGY



LEGEND

- Site Boundaries
- Rahway Till - Late Pleistocene, Late Wisconsinan
- Late Wisconsinan Glacial Delta Deposits - Late Pleistocene, Late Wisconsinan
- Salt Marsh and Estuarine Deposits - Holocene

NJDEP NJGS SURFICAL GEOLOGY OF NEW JERSEY, 2004
NJDEP ORTHOPHOTOGRAPHY (disk 11), 2007

NJ GEOLOGICAL SURVEY SURFICIAL GEOLOGY MAP

BLOCK 12, LOTS 1-7, 9, 11-18
CITY OF HOBOKEN

HUDSON COUNTY NEW JERSEY

BOSWELL McCLAVE ENGINEERING
330 PHILLIPS AVENUE, SOUTH HACKENSACK, NJ 07606

DR. BY: CJC CKD. BY: CEA	SCALE: 1" = 1,000' DATE: JUNE 2012	JOB NO. HO-458 FIGURE SURFICIAL GEO

APPENDIX E

Photodocumentation

BOSWELL MCCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

SITE NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
Block 12 Lots 1-7, 9 & 11-18	City of Hoboken, Hudson County, New Jersey	Site Investigation Report	HO-458

Photo No. 1.

Description:
View of southwest portion of Block 12. The majority of the vehicles were moved for the geophysical investigation except for those shown.

Photo No. 2.

Description:
Northern half of Lot 12 some concrete blocks and cobbles visible.

BOSWELL MCCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

SITE NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
Block 12, Lots 1-7, 9 & 11-18	City of Hoboken, Hudson County, New Jersey	Site Investigation Report	HO-458

Photo No. 3.

Description:
Thick vegetation at the southern end of Lot 12 limited the geophysical investigation in this area. Only a general survey (magnometer sweep) was performed.

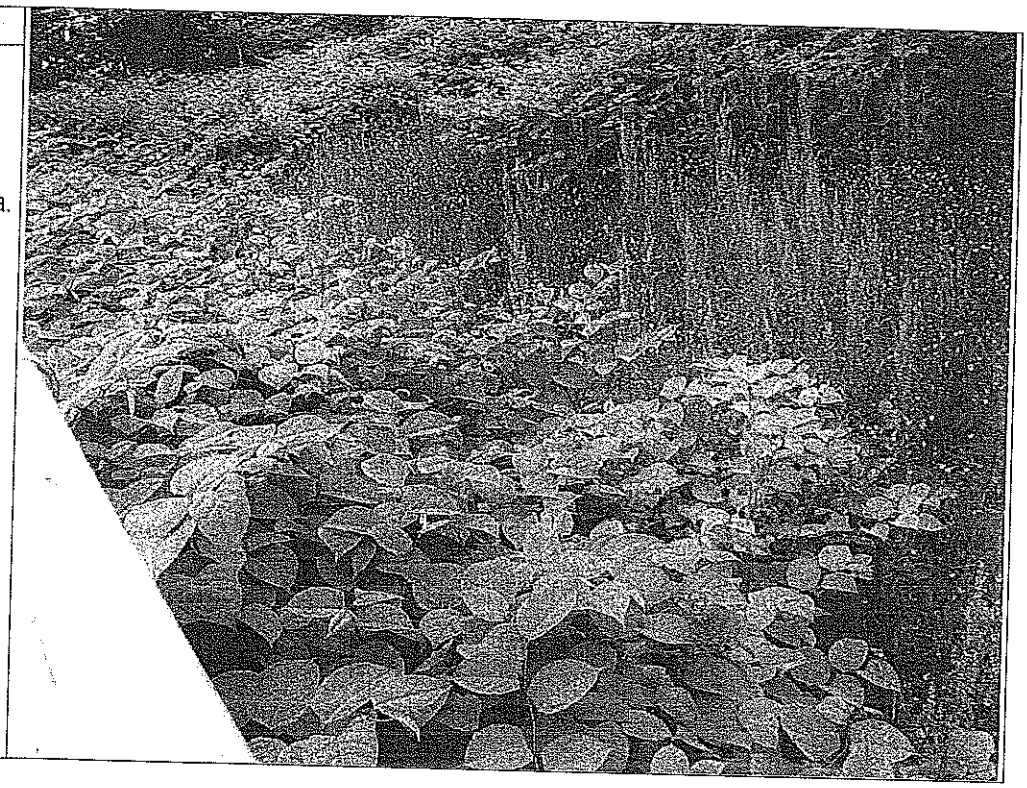
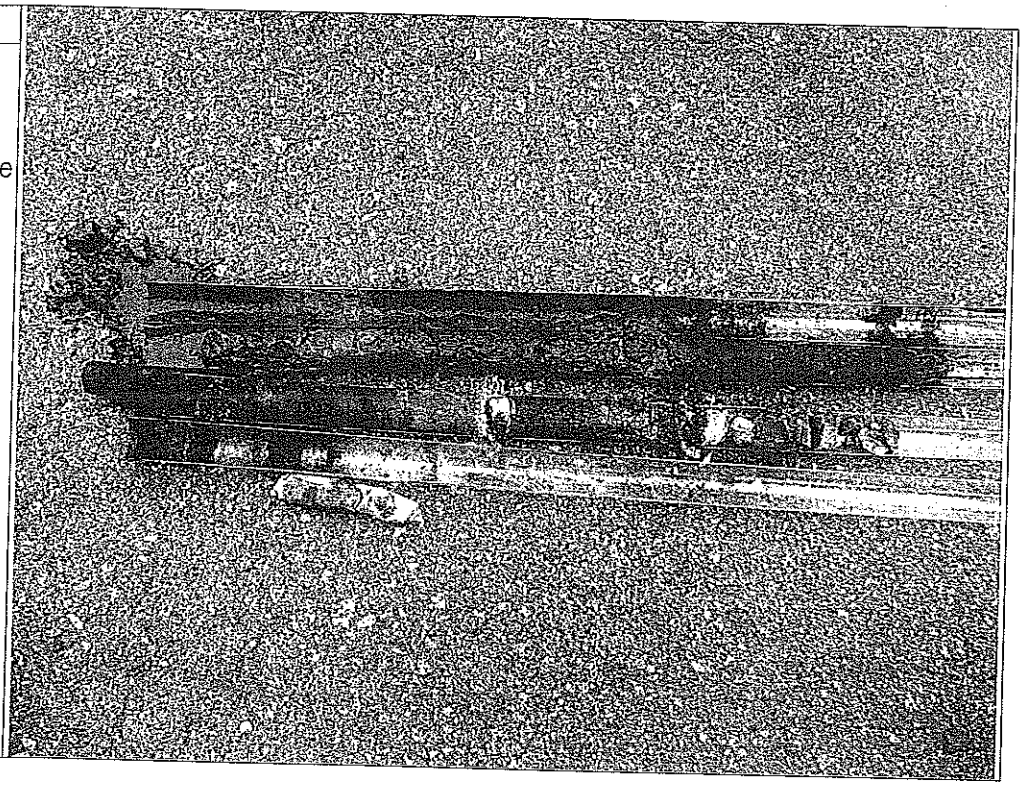


Photo No. 4.

Description:
Soil boring SB-1 was advanced to a depth of 15' below ground surface (bgs) in Lot 18. Historic fill containing concrete, brick and wood was identified from 0' to 5' bgs and dredge material from 5' to 15' bgs.



BOSWELL McCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

SITE NAME:	SITE LOCATION:	PROJECT NAME:	PROJECT NO.:
Block 12, Lois 1-7, 9 & 11-18	City of Hoboken, Hudson County, New Jersey	Site Investigation Report	HO-458

Photo No. 5.

Description:
Soil boring SB-2 was advanced to 10' bgs in Lot 16. Historic fill containing brick, coal and ash was detected from 3' to 8' bgs.

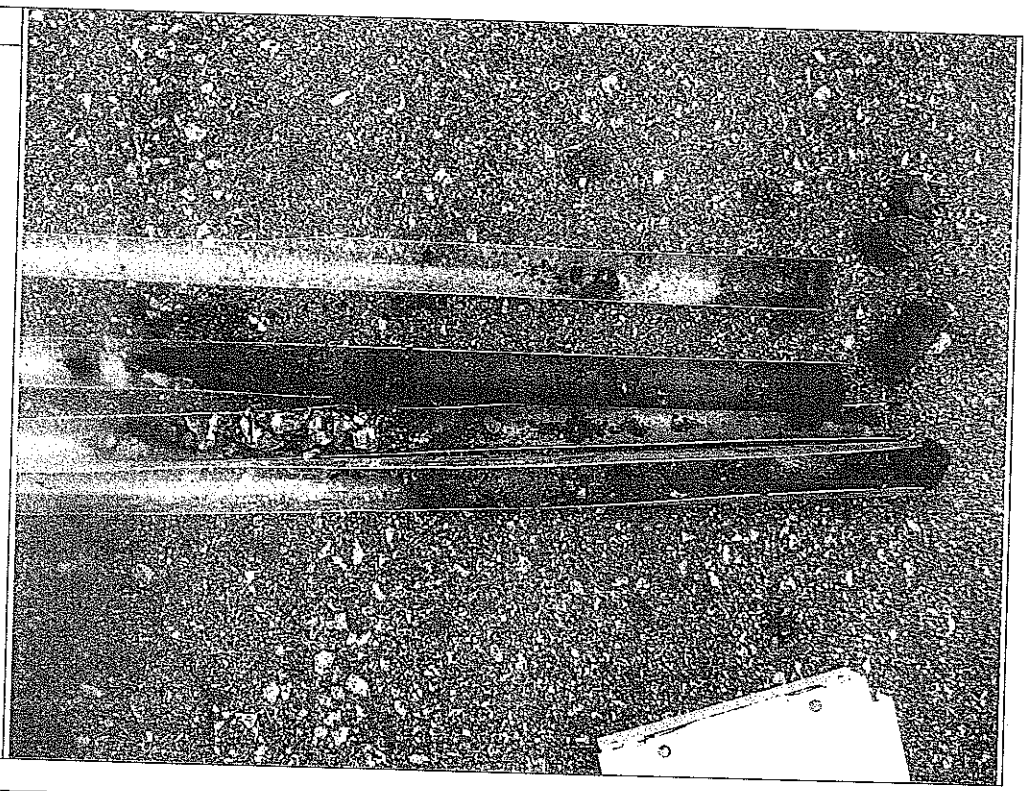
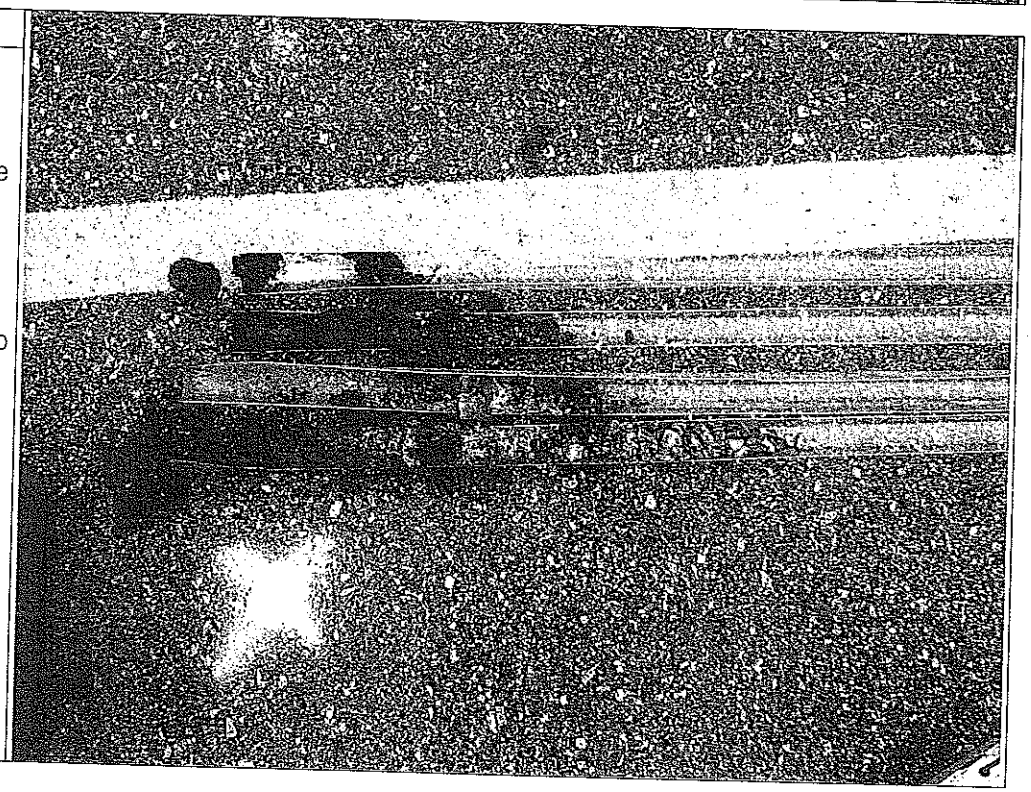


Photo No. 6.

Description:
Soil boring SB-3 was advanced to a depth of 10' bgs in Lot 14 outside of a former building foundation. Historic fill including ground brick, coal, ash, and concrete were observed from 1' to 8' bgs.



BOSWELL McCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

SITE LOCATION: City of Hoboken, Hudson County, New Jersey	PROJECT NAME: Site Investigation Report	PROJECT NO.: HO-458

Block 12, Lots 1-7, 9 & 11-18

Photo No. 7.

Description:
Soil boring SB-3 was advanced to a depth of 5' bgs at a geophysical anomaly inside of a building foundation. Historic fill including crushed brick, mortar, coal and glass were identified from 1' to 5' bgs.

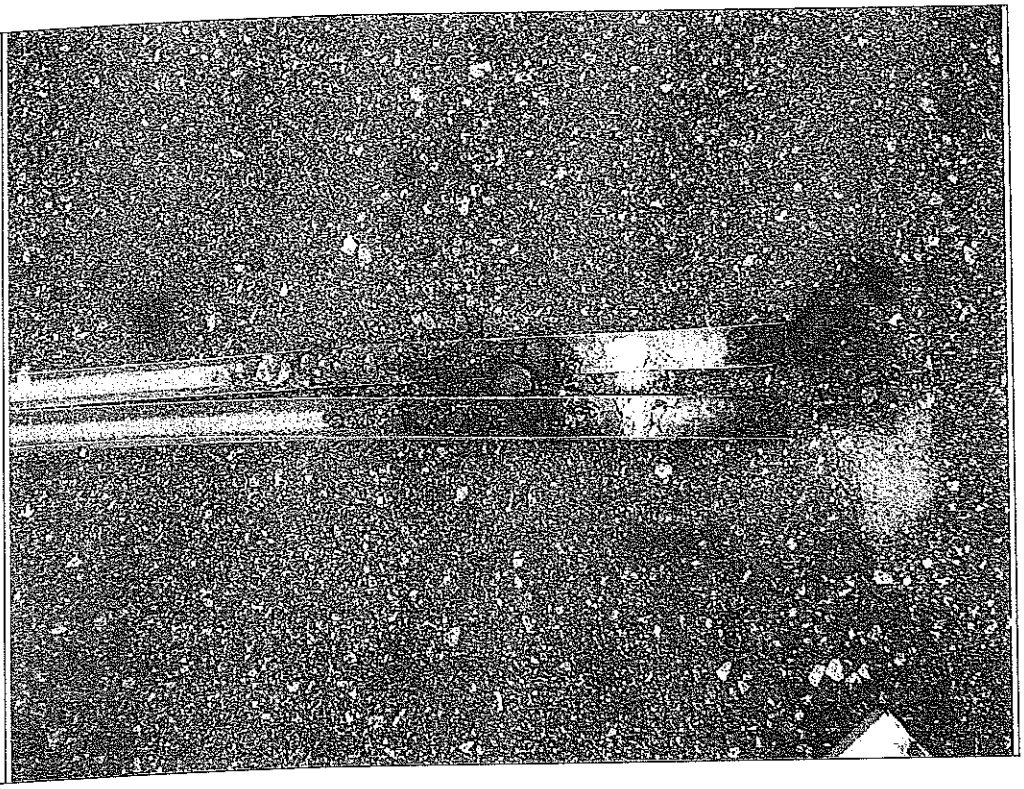
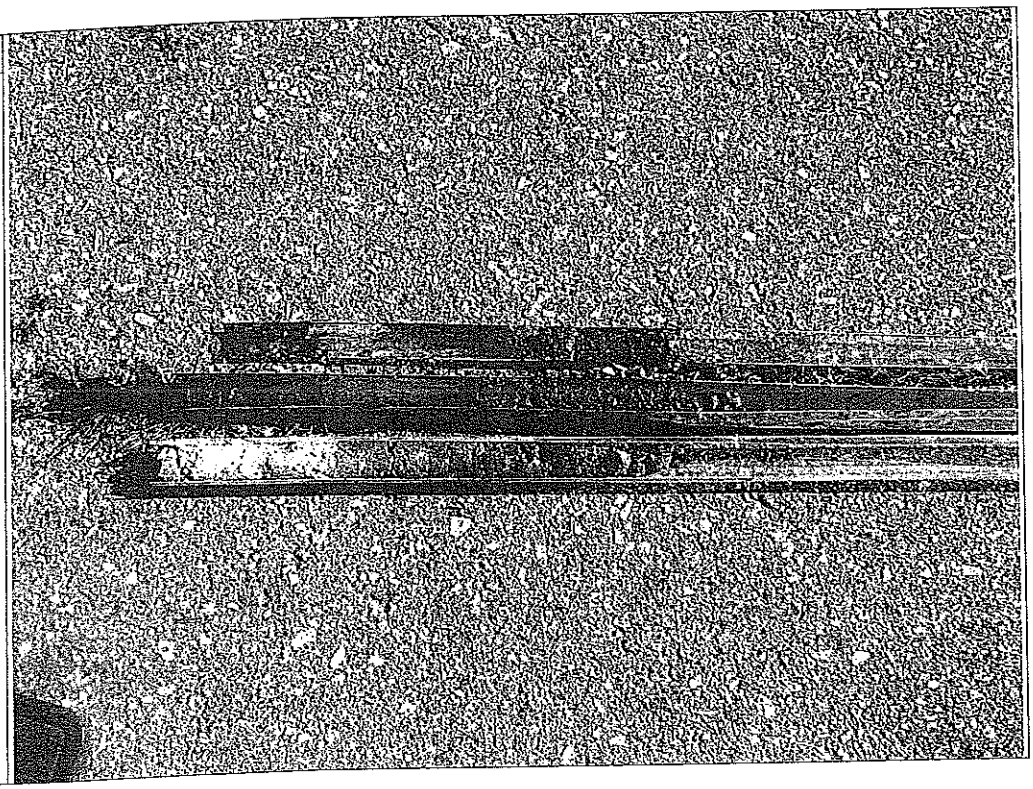


Photo No. 8.

Description:
Soil boring SB-5 was advanced to a depth of 10' bgs in Lot 4. Historic fill including brick and concrete was identified from 2' to 5' bgs.



BOSWELL MCCLAVE ENGINEERING

ENGINEERS • PLANNERS • SURVEYORS • SCIENTISTS

SITE PHOTOGRAPHS

NAME: x 12, Lots 1-7, 9 & 11-18	SITE LOCATION: City of Hoboken, Hudson County, New Jersey	PROJECT NAME: Site Investigation Report	PROJECT NO.: HO-458

Photo No. 9.

Description:
Soil boring SB-6 was advanced to a depth of 10' bgs in Lot 2. Historic fill including coal, brick, concrete, glass and metal was identified from 1' to 10' bgs.

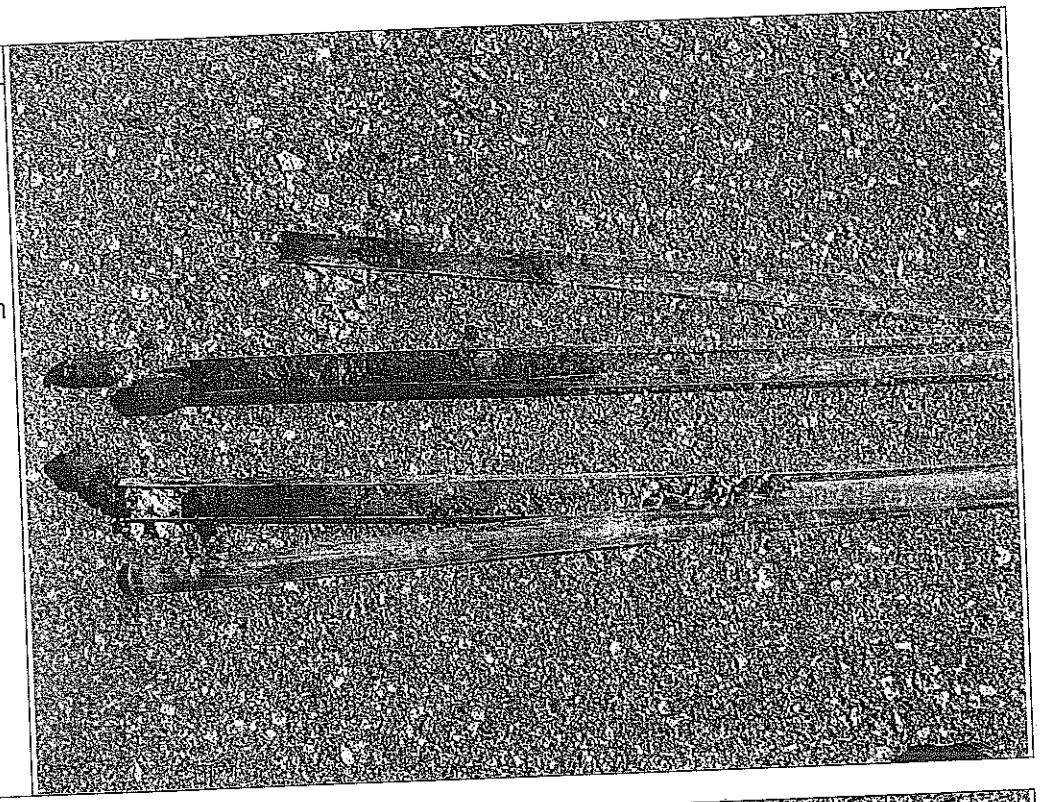
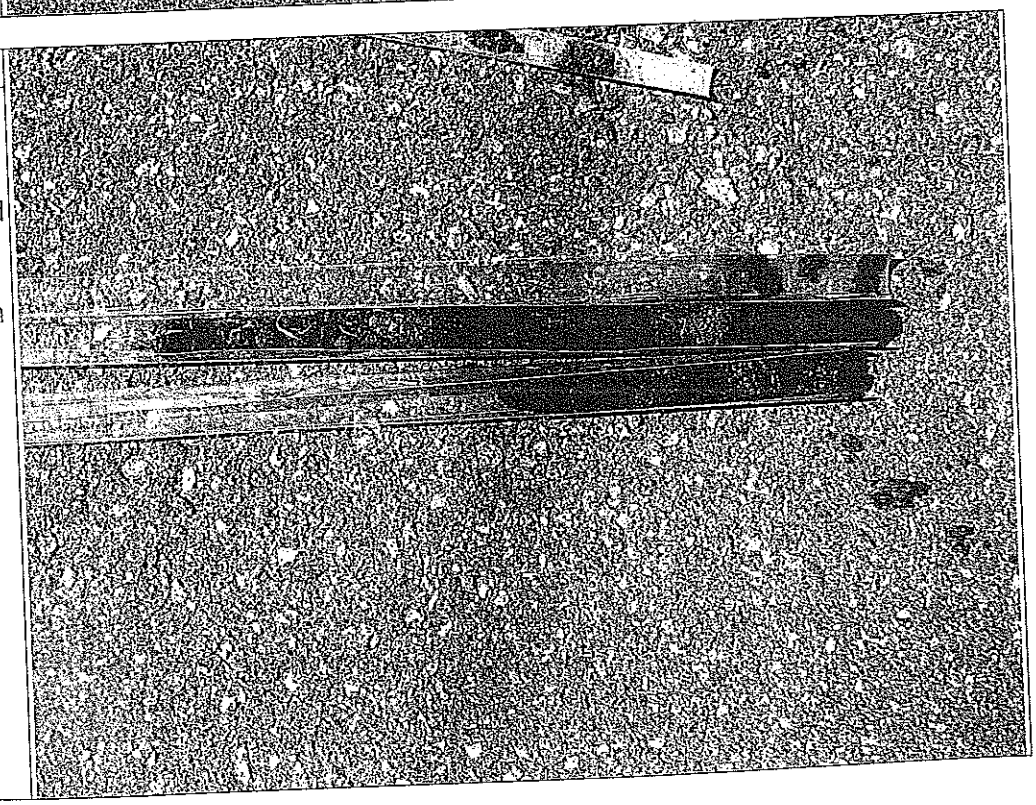


Photo No. 10.

Description:
Soil Boring SB-7 was advanced to a depth of 10' bgs in the City owned Lot 9. Historic fill including coal, ash and wood was identified from 0' to 4' bgs.



APPENDIX F

Soil Boring Logs

Boring No	SB-1	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	TWP	Construction	15' of slotted 2" diameter PVC Well Point	PID (Background) 0.4

Remarks: Historic fill soil sample SB-1 and duplicate sample SB-11 were collected from 1.5' - 2.0' bgs at 10:00 and 10:05. Groundwater sample TWP-1 and duplicate sample TWP-11 were collected at 5.0' bgs at 10:20 and 10:25.

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
		2" asphalt, concrete, brick, brown silt		Historic Fill
		Dark brown silt and some concrete	SB-1/SB-11	
		Dark brown clay with rocks		
		Brown clay and gravel		
		Black clay with some wood		
		Black silty clay with small pebbles	TWP-1/ TWP-11	
		Black silt and clay with gravel and wood		
	0.4	Dense clay (black)		
		Clay and silt		
		Very wet black clay and silt with some fine gravel		
		End of Boring		

Boring No	SB-2	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	No sample collected			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	2" asphalt, silt, gravel, clay		
2'				
3'		Silt, gravel, clay, some brick		
4'		Concrete with black clay		Historic Fill
5'		Black to brown clay and coal		
6'		Black silty clay with coal		
7'		Silty clay with ash		
8'		Silty clay with brick and stone		
9' ▼		Sand containing brick, stone, coal		
10'		Brown/green clay		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-3	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	Poor recovery from 5'-10'; Historic fill soil sample SB-3 collected from 4' to 4.5' bgs at 11:30			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	3" asphalt, stone subbase		
2'		Ground brick		Historic Fill
3'				
4'				
5'		Coal mixed with ash and brick	SB-3	
6'		Coal with organics		
7'		Brick and concrete		
8'		Black sandy gravel		
9'		Red-brown silty clay		
10'		Brown silty clay		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-4	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 14, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel CC
Well Install	No	Construction	N/A	PID (Background) 0.4
Remarks	Boring advanced inside of former building foundation and geophysical anomaly, no sample collected.			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.4	2" asphalt, gravel		
2'		Crushed brick		Historic Fill
3'				
4'		Mortar mixed with concrete		
5'		Gravel with sand and coal, wood, glass		
6'		**End of Boring**		
7'				
8'				
9'				
10'				
11'				
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-5	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.5
Remarks	No sample collected			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1	0.5	2" asphalt; brown quartz sand with stone		
2		Brown quartz sand with stone, some brick		Historic Fill
3		Brown clay with denatured concrete		
4				
5		Dark brown gravel and wood		
6				
7		Dark brown clay		
8				
9		Gravels and organics		
10		**End of Boring**		
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Boring No	SB-6	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.5
Remarks	Historic fill soil sample SB-6 collected from 9' - 9.5' bgs at 9:30			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.5	6" asphalt; light gray concrete rubble		
2'		Silty sand with fine ground coal, brick, concrete		Historic Fill
3'				
4'		Tan-brown silty clay		
5' ▼		White quartz sand to brown clay		
6'		Brown silty sand with gravel, coal, and wood		
7'				
8'		Ground brick and gravel		
9'				
10'		Brown to green silty clay with coal, glass, metal	SB-6	
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

Boring No	SB-7	BORING LOG		Sketch
Project	HO-458	Location	Block 12 Hoboken, NJ	See attached map
Drilling Contractor	EMA	Date	May 17, 2012	
Drilling Equipment	Geoprobe	Method	Direct Push	Personnel MF, CC
Well Install	No	Construction	N/A	PID (Background) 0.5
Remarks	Boring advanced inside of Lot 9. Low recovery from 5' to 10'. Historic Fill Soil Sample SB-7 collected from 2.5' to 3.0' interval at 9:45			

Depth (ft)	PID	DESCRIPTION	Sample No.	REMARKS
1'	0.5	6" grass and topsoil; brown silty clay with some coal		Historic Fill
2'				
3'		Brown silty clay with coal and ash and wood	SB-7	
4'		Light brown sandy gravel with tree roots		
5'		Black silty clay		
6'				
7'		Light brown sandy clay		
8' ▼				
9'		Light brown clay		
10'		Loose gravel (diabase)		
11'		**End of Boring**		
12'				
13'				
14'				
15'				
16'				
17'				
18'				
19'				
20'				

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APPENDIX G

Geophysical Survey Report

Infrared Services, Inc.
Established 1977

150 River Road L-4
P.O. Box 485
Montville, NJ 07045
(973) 263-1177 Phone
1-866-204-5913 Fax
request@infraredservicesinc.com

July 5, 2012

Mr. Chris Colabaugh
Boswell Engineering
330 Phillips Ave.
South Hackensack, NJ 07606

Phone: (201) 641-0770
E-mail: ccolabaugh@boswellengineering.com

RE: GEOPHYSICAL SURVEY TO ATTEMPT TO LOCATE AND MARK OUT THE LOCATION OF POSSIBLE UNDERGROUND STORAGE TANKS AND/OR PIPING

Dear Mr. Colabaugh,

The following survey was conducted on May 14 and 17, 2012:

LOCATION: LAZ CAR PARKING LOT
59 PATERSON AVE.
HOBOKEN, NJ

METHOD: GEOPHYSICAL SURVEY – GROUND PENETRATING RADAR AND RADIO DETECTION

A 400 MHZ transducer emits pulsating radar through to the subsurface as it is moved across the surface material. At the interface of subsurface objects, some of the radar is reflected to the surface, picked up by the transducer, processed and printed. Operator conclusions of radar and radio detection results are based on the printed profile and radio signal. Approximate locations of subsurface objects are spray painted on the surface.

Please be advised that the services and resulting interpretations provided by Infrared Services, Inc. shall be performed with our best professional efforts. Because depth of penetration is dependent upon the electrical properties of the material(s) probed and interpretations are opinions based on inference from acquired radar, radio detection, and/or other data, Infrared Services, Inc. does not guarantee the desired penetration depth or accuracy or correctness of interpretations and will not accept liability or responsibility for any loss, damages, or expenses that may be incurred or sustained by any services or interpretations performed by Infrared Services, Inc.

Boswell Engineering
July 5, 2012

SCOPE: TO PROVIDE A GROUND PENETRATING RADAR AND RADIO DETECTION SURVEY TO ATTEMPT TO LOCATE AND MARK OUT THE LOCATION OF POSSIBLE UNDERGROUND STORAGE TANKS AND/OR PIPING.

RESULTS: PARKING LOT AREA:
A SURVEY WAS CONDUCTED WITHIN THE FENCED PARKING LOT. THE SUBSURFACE MATERIAL HAD POOR GPR PENETRATION. THE GPR PENETRATION WAS 1-2 FEET DEEP. THE SUBSURFACE OR BACKFILL MATERIAL MAYBE CONDUCTIVE OR CAUSING REFRACTION.
PIPING WAS LOCATED FROM THE ELECTRIC ACCESS GATE TO AN OVERHEAD ELECTRIC POWER SOURCE ON THE FENCE.
NO OTHER PIPING WAS LOCATED IN THE SURVEY AREA

GRASS ISLAND AREA (OFF PATERSON STREET)
THE GRASS AND TREE COVERED ROADSIDE ISLAND WAS CLEARED OF UNDERGROUND UTILITIES FOR SOIL BORING.

THE SURVEY WAS CONDUCTED AT 3-FOOT GRID PATTERNS. THE MAXIMUM DEPTH OF PENETRATION OF THE GROUND PENETRATING RADAR WAS 1 FEET-2 FEET.

Please do not hesitate to contact me if you have any further questions.

Sincerely,

Gary R. Kayhart
INFRARED SERVICES, INC.

Attachment

PROJECT: BOSWELL ENGINEERING
PARKING LOT
59 PATERSON ROAD
HOBOKEN, NJ

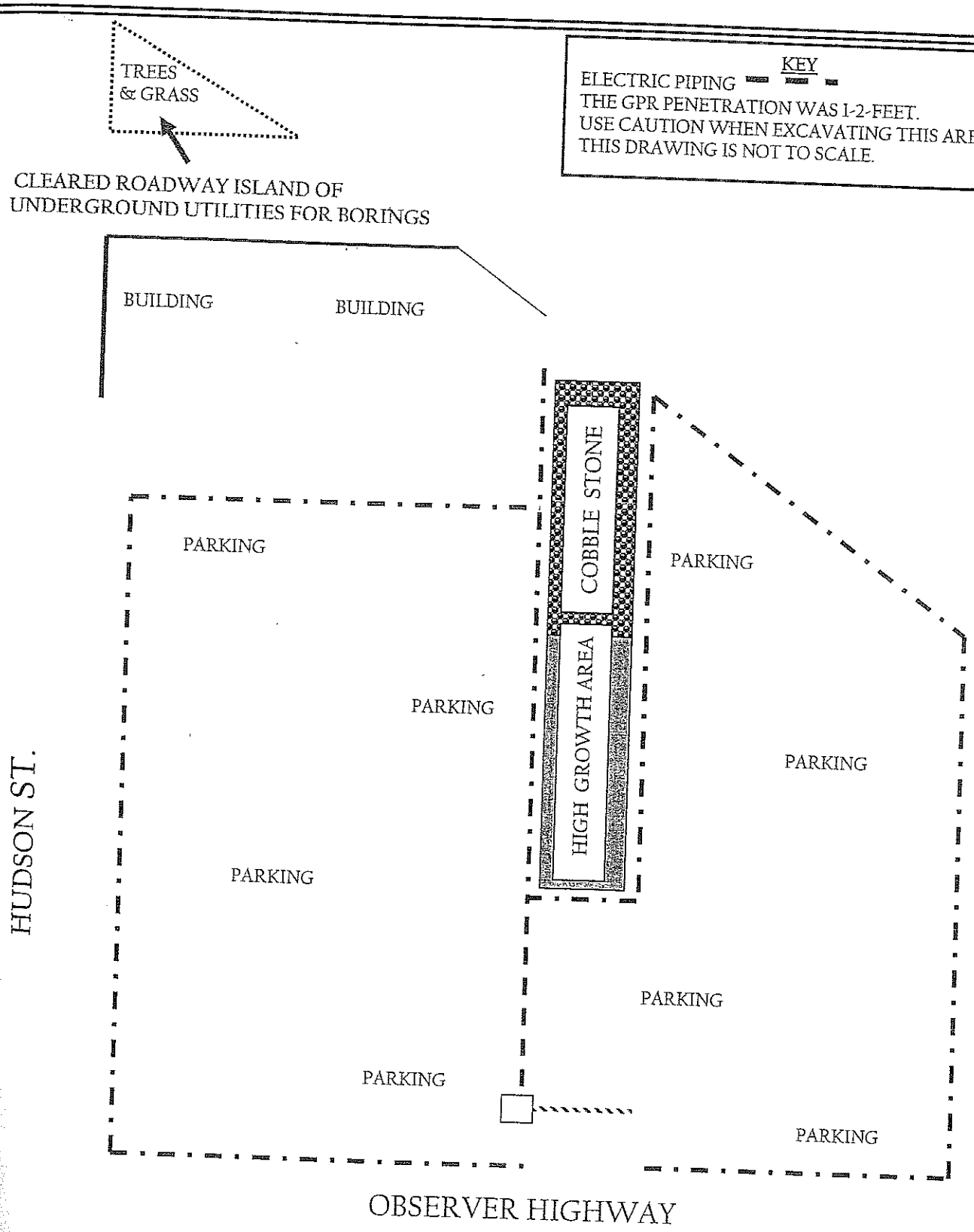
SITE MAP

INFRARED SERVICES INC.
SUITE L-4
150 RIVER ROAD
MONTVILLE, NJ 07045

N

KEY

ELECTRIC PIPING
THE GPR PENETRATION WAS 1-2-FEET.
USE CAUTION WHEN EXCAVATING THIS AREA.
THIS DRAWING IS NOT TO SCALE.



APPENDIX H

Sampling Parameter Summary Table

SAMPLING PARAMETER SUMMARY TABLE

BLOCK 12, LOTS 1-7, 9, AND 11-18
CITY OF HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

Analysis	Method	Matrix	Container	Preservative	Holding Time	No. of Sample
SOIL						
Total Extractable Petroleum Hydrocarbons (EPH) Category-2 Non-Fractionated	SW 846 3545	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	1
TCL Volatile Organic Compounds +15*	SW 846 5035/8260B	Soil	3 x Encore	4° C	48 hours to lab 14 day extract	1
TCL Polycyclic Aromatic Hydrocarbons (PAH)	SW 846 3550B/8270C	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	5 (1)
TCL Semi-Volatile Organic Compounds + 25 *	SW 846 3550B/8270C	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	1
Target Analyte List (TAL) Metals *	SW 846 3050/6010	Soil	1x8 ounce glass	4° C	180 Days	5 (1)
TCL Polychlorinated Biphenyls (PCB) *	SW 846 3545/8082	Soil	1x8 ounce glass	4° C	14 Days (extract) 40 Days (analyze)	1
GROUNDWATER						
Volatile Organic Compounds (VOA TCL)*	SW 846 8260B	Aqueous	3x40 ml glass	HCl, pH<2 4° C	14 Days	3 (1)(2)
Semi-Volatile Organic Compounds (ABN TCL)*	SW 846 3550B/8270C	Aqueous	2x1,000 ml glass	4° C	7 Days (extract) 40 Days (analyze)	2 (1)
TAL Metals*	SW 846 3050/6010	Aqueous	1x500 ml poly	HNO_3 to PH<2 4° C	6 Months	2 (1)
Polychlorinated Biphenyls (PCB) *	SW 846 8082	Aqueous	2x1,000 ml glass	4° C	7 Days (extract) 40 Days (analyze)	2 (1)

NOTES:

(1) = Includes one (1) QA/QC duplicate sample
(2) = Includes one (1) QA/QC trip blank
TAL = Target Analyte List Metals
TCL = Target Compound List
ABN = Acid and Base Neutral extractables
* = Included with full TCL+/TAL analysis
SW 846 = Test Methods for Evaluating Solid Waste, 3rd Edition

APPENDIX I

Analytical Results Summary Tables

ANALYTICAL RESULT SUMMARY TABLE

SOIL SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

Sample Number	SB-1	SB-3	SB-6	SB-7	NJDEP Soil Remediation Standards		
Lab ID	JB6521-4	JB6521-6	JB6934-1 & JB6934-1A	JB6934-2, JB6934-2A & JB6934-2R			
Sampling Date	5/14/2012	5/14/2012	5/17/2012	5/17/2012			
Matrix	Soil	Soil	Soil	Soil			
Depth	1.5'-2.0'	4.0'-4.5'	9.0'-9.5'	2.5'-3.0'			
PID	0.4 ppm	0.4 ppm	0.5 ppm	0.5 ppm			
Sampler	MF, CC	MF, CC	MF, CC	MF, CC			
Sampling Time	10:00	11:30	9:30	9:45			
Units	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)			
Analytical Parameter							
NJ Category-2 Non-Fractionated Extractable Petroleum Hydrocarbons (EPH)					RDC	NRDC	IGW
EPH (C9-C28)	~	~	~	203	-	-	-
EPH (>C28-C40)	~	~	~	220			
Total EPH (C9-C40)	~	~	~	423	1,700 / 5,100 / 8,000*		
Volatile Organic Compounds (TCL VOA)							
Benzene	~	~	~	0.0013 J	2	5	0.005
Toluene	~	~	~	0.00067 J	6,300	91,000	4
Tentitively Identified Compounds (TICs) Volatiles	~	~	~	ND	-	-	-
Semi-volatile Organic Compounds (TCL ABN)**							
Acenaphthene	4.12	0.0503	0.0471	ND	3,400	37,000	74
Acenaphthylene	9.38	0.0855	ND	ND	-	300,000	-
Anthracene	26.5	0.186	0.119	0.0217 J	17,000	30,000	1,500
Benzo(a)anthracene	**56.8**	**0.696**	0.25	0.0721	0.6	2	0.5
Benzo(a)pyrene	**51.7**	**0.615**	**0.269**	0.0693	0.2	0.2	0.2
Benzo(b)fluoranthene	**59.2**	**0.801**	0.224	0.0886	0.6	2	2
Benzo(g,h,i)perylene	22.7	0.364	0.135	0.084	380,000	30,000	-
Benzo(k)fluoranthene	**25**	0.344	0.172	0.0641	6	23	16
Carbazole	~	~	~	0.0480 J	24	96	-
Chrysene	**52.2**	0.705	0.225	0.0927	62	230	52
Dibenzo(a,h)anthracene	**9.88**	0.129	0.0633	0.0268 J	0.2	0.2	0.5
Diethyl phthalate	~	~	~	0.0808 J	49,000	550,000	57
bis(2-Ethylhexyl)phthalate	~	~	~	0.142	35	140	790
Fluoranthene	114	1.59	0.389	0.134	2,300	24,000	840
Fluorene	14.8	0.04	0.0481	ND	2,300	24,000	110
Indeno(1,2,3-cd)pyrene	**24.3**	0.325	0.139	0.0585	0.6	2	5
2-Methylnaphthalene	~	~	~	0.0763 J	230	2,400	5
Naphthalene	3.35	0.0208 J	0.0150 J	ND	31	340	0.2
Phenanthrene	73.9	0.834	0.345	0.0892	-	300,000	-
Pyrene	85.9	1.64	0.395	0.152	1,700	18,000	550
Tentitively Identified Compounds (TICs) Semi-Volatiles	~	~	~	1.45 J	-	-	-
TAL Metals							
Aluminum	**7,820**	**6,440**	**9,840**	**5,620**	78,000	-	3,900
Antimony	**12.5**	<2.4	<2.5	<2.2	31	450	6
Arsenic	**43**	10.2	7.2	18	19	19	19
Barium	346	108	95	204	16,000	59,000	1,300
Beryllium	0.4	0.33	**0.81**	**0.72**	16	140	0.5
Cadmium	**1.7**	<0.60	<0.61	**2.7**	78	78	1
Calcium	10,800	12,400	10,200	5,040	-	-	-
Chromium (total)	31	8.7	22.5	39.7	-	-	-
Cobalt	10.3	<6.0	7.1	<5.6	1,600	590	59
Copper	197	45.6	32.9	90.6	3,100	45,000	7,300
Iron	24,400	10,000	17,900	21,300	-	-	-
Lead	**866**	**157**	**200**	**678**	400	800	59
Magnesium	5,360	1,140	4,530	1,500	-	-	-
Manganese	**181**	**129**	**501**	**158**	11,000	5,900	42
Mercury	**9**	**0.88**	**0.8**	**0.38**	23	65	0.1
Nickel	**51.7**	6.1	22.3	**36.4**	1,600	23,000	31
Potassium	<1,500	<1,200	2,370	<1,100	-	-	-
Selenium	<3.1	<2.4	<2.5	<2.2	390	5,700	7
Silver	**4.4**	<0.60	<0.61	0.91	390	5,700	1
Sodium	<1,500	<1,200	<1,200	<1,100	-	-	-
Thallium	<1.5	<1.2	<1.2	<1.1	5	79	3
Vanadium	27.8	11.7	28.7	43.6	78	1,100	-
Zinc	**1,880**	87.7	83.3	**1,760**	23,000	110,000	600
Polychlorinated Biphenyls (TCL PCB)							
Total PCB	~	~	~	ND	0.2	1	0.2

NOTES:

RDC = NJDEP Residential Direct Contact Soil Remediation Standard
NRDC = NJDEP Non-Residential Direct Contact Soil Remediation Standard
IGW = Impact to Groundwater Soil Remediation Standard
bold = Exceeds NJDEP RDCSRS
bold = Exceeds NJDEP IGWSSL
J = Estimated Value
PID = Photoionization Detector - background 0.4-0.5 ppm
- = Remediation Standard Not Established
ND = Not detected
mg/kg = milligrams per kilogram = ppm = parts per million
~ = Not analyzed pursuant to NJDEP Historic Fill Guidance Document
< = Value shown is less than laboratory RL
* ecological concern/soil remediation standard/residual product limits
** PAHs are a subset of TCL ABN

ANALYTICAL RESULT SUMMARY TABLE

TEMPORARY WELL POINT GROUNDWATER SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

Sample Number	TWP-1		
Lab ID	JB6521-1		
Matrix	Aqueous		
PID	0 ppm		
Sampler	MF, CC		
Sampling Date	5/14/2012		
Sampling Time	10:20		
Units	µg/kg (ppm)		
Analytical Parameter		NJDEP GQC +	NJDEP VI GSL ++
Volatile Organic Compounds (TCL VOA+)			
Carbon disulfide	0.32 J	700	710
Chloroethane	1.3	-	4
Methyl-Tertiary-Butyl-Ether (MTBE)	0.58 J	70	78
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	-
Semi-volatile Organic Compounds (TCL ABN+)			
Acenaphthene	0.599	400	
Acenaphthylene	0.117	100	
Anthracene	0.274	2,000	
Benzo(a)anthracene	**0.683**	0.1	
Benzo (a) pyrene	**0.580**	0.1	
Benzo(b)fluoranthene	**0.608**	0.2	
Benzo(g,h,i)perylene	0.493	100	
Benzo(k)fluoranthene	0.42	0.5	
bis(2-Ethylhexyl)phthalate	**22**	3	
Chrysene	0.61	5	
Dibenz(a,h)anthracene	0.188	0.3	
Fluoranthene	0.953	300	
Fluorene	0.201	300	
Indeno(1,2,3-cd)pyrene	**0.428**	0.2	
Naphthalene	ND	300	
Phenanthrene	0.88	100	
Pyrene	1.01	200	
Tentatively Identified Compounds (TICs)	ND	5/25* & 100/500 **	
TAL Metals			
Aluminum	**8,650**	200	
Antimony	**14.9**	6	
Arsenic	**24.5**	3	
Barium	521	6,000	
Beryllium	<1.0	1	
Cadmium	<3.0	4	
Calcium	140,000	-	
Chromium (total)	22.3	70	
Cobalt	<50	-	
Copper	578	1,300	
Iron	**39,200**	300	
Lead	**738**	5	
Magnesium	35,400	-	
Manganese	**1,100**	50	
Mercury	**2.6**	2	
Nickel	20.8	100	
Potassium	18,700	-	
Selenium	<10	40	
Silver	<10	40	
Sodium	**198,000**	50,000	
Thallium	<2.0	2	
Vanadium	<50	-	
Zinc	387	2,000	
Polychlorinated Biphenyls (TCL PCB)			
Total PCBs	ND	0.5	

NOTES:

ND = Undetected at Laboratory Reporting Limit (RL)
J = indicates an estimated value
+ = NJDEP Class II-A Aquifer Groundwater Quality Criteria
++ = NJDEP Generic Vapor Intrusion Groundwater Screening Level
* = Carcinogenic Synthetic Organic Compounds - 5 ppb each/25 ppb total
** = Non-Carcinogenic Synthetic Organic Compounds - 100 ppb each/500 ppb total
PID = Photoionization Detector
ppm = parts per million
µg/L = micrograms per liter = parts per billion = ppb
TCL = Target Compound List
TAL = Target Analyte List
< = Value shown is less than laboratory RL
bold = Exceeds NJDEP Class II-A Groundwater Quality Criteria (GQC)

APPENDIX J

Quality Assurance/Quality Control (QA/QC) Summary Tables

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SUMMARY TABLE

SOIL SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

	Duplicate Sample	
Sample Number	SB-1	SB-11
Lab ID	JB6521-4	JB6521-5
Sampling Date	5/14/2012	5/14/2012
Matrix	Soil	Soil
Depth	1.5'-2.0'	1.5'-2.0'
PID	0.4 ppm	0.4 ppm
Sampler	MF, CC	MF, CC
Sampling Time	10:00	10:05
Units	mg/kg (ppm)	mg/kg (ppm)
Analytical Parameter		
Semi-volatile Organic Compounds (TCL ABN)		
Acenaphthene	4.12	0.0367 J
Acenaphthylene	9.38	0.0323 J
Anthracene	26.5	0.0824
Benzo(a)anthracene	56.8	0.279
Benzo(a)pyrene	51.7	0.321
Benzo(b)fluoranthene	59.2	0.331
Benzo(g,h,i)perylene	22.7	0.229
Benzo(k)fluoranthene	25	0.113
Chrysene	52.2	0.32
Dibenzo(a,h)anthracene	9.88	0.0655
Fluoranthene	114	0.487
Fluorene	14.8	0.0387 J
Indeno(1,2,3-cd)pyrene	24.3	0.167
Naphthalene	3.35	0.0345 J
Phenanthrene	73.9	0.366
Pyrene	85.9	0.414
TAL Metals		
Aluminum	7,820	5,020
Antimony	12.5	4.4
Arsenic	43	32.9
Barium	346	143
Beryllium	0.4	0.35
Cadmium	1.7	<0.81
Calcium	10,800	40,500
Chromium (total)	31	15.5
Cobalt	10.3	11.7
Copper	197	761
Iron	24,400	41,300
Lead	866	516
Magnesium	5,360	1,660
Manganese	181	233
Mercury	9	3.9
Nickel	51.7	24.5
Potassium	<1,500	<1,600
Selenium	<3.1	5
Silver	4.4	1.9
Sodium	<1,500	<1,600
Thallium	<1.5	<1.6
Vanadium	27.8	19.1
Zinc	1,880	492

NOTES:

J = Estimated Value
PID = Photoionization Detector
mg/kg = milligrams per kilogram = ppm = parts per million
< = Value shown is less than laboratory RL

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SUMMARY TABLE

TEMPORARY WELL POINT GROUNDWATER SAMPLING

BLOCK 12, LOTS 1-7, 9, AND 11 TO 18
HOBOKEN, NEW JERSEY
OUR FILE NO. HO-458

	Duplicate Samples		
Sample Number	**TWP-1**	**TWP-11**	**TRIP BLANK**
Lab ID	JB6521-1	JB6521-2	JB6521-3
Matrix	Aqueous	Aqueous	Di Water
PID	0 ppm	0 ppm	0 ppm
Sampler	MF, CC	MF, CC	MF, CC
Sampling Date	5/14/2012	5/14/2012	5/14/2012
Sampling Time	10:20	10:25	10:25
Units	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)
Analytical Parameter			
Volatile Organic Compounds (TCL VOA+)			
Carbon disulfide	0.32 J	0.28 J	ND
Chloroethane	1.3	1.4	ND
Methyl-Tertiary-Butyl-Ether (MTBE)	0.58 J	0.53 J	ND
Tentatively Identified Compounds (TICs)	ND	ND	ND
Semi-volatile Organic Compounds (TCL ABN+)			
Acenaphthene	0.599	0.662	
Acenaphthylene	0.117	0.132	
Anthracene	0.274	0.327	
Benzo(a)anthracene	0.683	0.805	
Benzo (a) pyrene	0.580	0.679	
Benzo(b)fluoranthene	0.608	0.701	
Benzo(g,h,i)perylene	0.493	0.567	
Benzo(k)fluoranthene	0.420	0.497	
bis(2-Ethylhexyl)phthalate	22	ND	
Chrysene	0.61	0.707	
Dibenz(a,h)anthracene	0.188	0.22	
Fluoranthene	0.953	1.09	
Fluorene	0.201	0.221	
Indeno(1,2,3-cd)pyrene	0.428	0.498	
Naphthalene	ND	0.292	
Phenanthrene	0.88	1.06	
Pyrene	1.01	1.19	
Tentatively Identified Compounds (TICs)	ND	ND	
TAL Metals			
Aluminum	8,650	10,500	
Antimony	14.9	20.3	
Arsenic	24.5	33.5	
Barium	521	600	
Beryllium	<1.0	1	
Cadmium	<3.0	<3.0	
Calcium	140,000	142,000	
Chromium (total)	22.3	28.1	
Cobalt	<50	<50	
Copper	578	772	
Iron	39,200	47,900	
Lead	738	976	
Magnesium	35,400	35,700	
Manganese	1,100	1,160	
Mercury	2.6	2.9	
Nickel	20.8	26.7	
Potassium	18,700	18,800	
Selenium	<10	<10	
Silver	<10	<10	
Sodium	198,000	197,000	
Thallium	<2.0	<2.0	
Vanadium	<50	<50	
Zinc	387	495	
Polychlorinated Biphenyls (TCL PCB)			
Total PCBs	ND	ND	

NOTES:

ND = Undetected at Laboratory Reporting Limit (RL)
J = Indicates an estimated value
µg/L = micrograms per liter = parts per billion = ppb
TAL = Target Analyte List
< = Value shown is less than laboratory RL

APPENDIX K

Estimated Cost Summary Table

ESTIMATED COST SUMMARY

BLOCK 12, LOTS 1-7, 9, AND 11-18
HOBOKEN, NEW JERSEY

Task No.	TASK DESCRIPTION	CONSULTANT/CONTRACTOR	WORK DESCRIPTION	ESTIMATED COST
1	Preliminary Assessment	Boswell McClave Engineering	Consulting/Oversight & Report Preparation	$ 7,500.00
		FirstSearch Technologies, Corp.	Environmental Database, Historic Mapping, Aerials, Etc.	$ 1,300.00
		Accurate Abstracts	Chain of Title Search	$ 4,102.95
		Karren Farrel	Industrial Directory Search	$ 400.00
			Subtotal	*$ 13,302.95*
2	Site Investigation	Boswell McClave Engineering	Consulting/Oversight & Report Preparation/Soil & Groundwater Sampling	$ 13,500.00
		Pine Environmental	Sampling Equipment Rental	$ 27.00
		AccuTest Laboratories	Laboratory Analysis of Soil and Groundwater	$ 4,883.00
		Environmental Management Associates, Inc.	Soil Borings and Well Point Installation	$ 3,000.00
		Infrared Services, Inc.	Geophysical Survey	$ 1,773.00
			Subtotal	*$ 23,183.00*

ESTIMATED TOTAL:	$ 36,500.00

APPENDIX L

Qualifications

BOSWELL ENGINEERING

FRANK J. ROSSI, LSRP
Environmental Science Department Head

EDUCATION:

MS, Chemical Engineering, New Jersey Institute of Technology
BS, Chemistry, Fairleigh Dickinson University

PROFESSIONAL REGISTRATIONS:

NJDEP Licensed Site Remediation Professional

CERTIFICATIONS:

OSHA 40-Hour HAZMAT & 8-Hour Annual Refresher
Confined Space Entry
AHERA Asbestos Inspector/Management Planner
EPA/HUD-Certified Lead Inspector
NJDEP Licensed for UST – Installation, Testing, Closure & Subsurface Evaluation

HIGHLIGHTS:

- Project Manager for the PA/SIs of numerous several hundred-acre facilities.
- Extensive turn-key experience from Phase I ESAs through a project's investigation and remediation.

RELEVANT EXPERIENCE:

Mr. Rossi has over 32-years of experience as a project manager/senior environmental/chemical engineer. He has a strong diverse background in chemical, civil and environmental engineering. Mr. Rossi also has extensive hands-on experience in all types of field applications, including but not limited to, **Phase I Preliminary Assessments (PA)**, **Phase II Site Investigations (SI)**, underground storage tank (UST) removals and installations, remedial investigations/feasibility studies (RI/FS), in-situ remediation systems and groundwater fate and transport modeling.

His specific experience with **Phase I Preliminary Assessment** projects includes:

- Project manager for the **PA/SI** of Greystone Psychiatric Hospital in Morris Plains New Jersey. Performed a through and detailed assessment of this 900-acre, 125-year old facility. Work included a thorough inspection of over 50 buildings, some currently in use and others abandoned for decades. Many areas of environmental concern (AOC) were identified including numerous underground storage tanks (UST), 55-gallon drum and electrical transformer disposal areas, asbestos and lead based paint and a forgotten manufactured gas plant (MGP). Following several weeks of fieldwork authored a comprehensive PA/SI Report detailing the facility's AOCs.

- Project manager for the **PA/SI** of the Fairleigh Dickinson University, Rutherford, NJ campus. Prior to the property's sale, performed a detailed **PA/SI** of this 11.5-acre college campus comprising 13 buildings housing offices, auditoriums, classrooms, laboratories and residence halls. Prepared a comprehensive **SI** Report detailing sampling at each of the Site's nine (9) USTs in accordance with the NJDEP's Technical Requirements.

- Project manager for the **PA/SI** and emergency remedial action at the Garden State Industrial Park warehouse complex. Performed and authored a detailed **PA** report; identified four (4) previously undocumented USTs through the use of ground penetrating radar (GPR); conducted the emergency removal of the four (4) leaking USTs in close proximity to facility and municipal production wells; performed **SI** following tank removal; field designed contamination interceptor systems utilizing geosynthetics.

- Project manager for the **SI** of an active gasoline service station in Rochelle Park NJ. Performed subsurface investigations, monitoring well installation and gauging, soil vapor point installation and sampling and low flow groundwater sampling. Interpreted all laboratory data and prepared Remedial Action Progress Reports for submission to the NJDEP. Provided operation and maintenance of an on-site oil water separator and groundwater air stripper. Delineated on-site/off-site volatile organic contaminant (VOC) contamination and provided hydraulic control of the site's VOC plume.

BOSWELL ENGINEERING

CHRIS EDWARD ARNTZ, P.E., P.P., LSRP
Senior Environmental Project Engineer

EDUCATION:

MS, Geoenvironmental Engineering, New Jersey Institute of Technology
BS, Civil Engineering, New Jersey Institute of Technology
AS, Mathematics/AA, Liberal Arts, Raritan Valley Community College

PROFESSIONAL REGISTRATION:

Professional Engineer – New Jersey, New York, New Hampshire
Professional Planner – New Jersey
NJDEP Licensed Site Remediation Professional

CERTIFICATIONS:

OSHA 40-Hour Hazardous Waste Site & 8-Hour Site Supervisor
AHERA Asbestos Inspector/Management Planner
NJDEP Licensed for UST – Installation, Testing, Closure and Subsurface Evaluation
Confined Space Entry

HIGHLIGHTS:

- Extensive experience with both real estate Phase I Assessments and NJDEP Preliminary Assessments.
- Prepared Preliminary Assessments and Site Investigations for projects ranging in size from single-family residences to those encompassing several hundred acres.

RELEVANT EXPERIENCE:

Mr. Arntz has over 19 years of diverse experience in civil and environmental engineering. He has performed numerous **Preliminary Assessments (PA) and Site Investigations (SI)**, remedial investigations and remediations. He has provided design, technical, logistical and administrative support at hazardous waste sites to both public and private clients, as well as program support to the U.S. Environmental Protection Agency in support of the Superfund program.

His specific experience with **PA** and **SI** projects includes:

- Project engineer for the **PA/SI** of Greystone Psychiatric Hospital in Morris Plains New Jersey. Performed a through and detailed assessment of this 900-acre, 125-year old facility. Work included a thorough inspection of over 50 buildings, some currently in use and others abandoned for decades. Many areas of environmental concern (AOC) were identified including numerous underground storage tanks (UST), 55-gallon drum and electrical transformer disposal areas, asbestos and lead based paint and a forgotten manufactured gas plant (MGP). Following several weeks of fieldwork authored a comprehensive PA/SI Report detailing the facility's AOCs.
- Project engineer for the **PA/SI** of a former eyeglass frame manufacturer in Newark, NJ. Performed a comprehensive investigation in accordance with the NJDEP's Industrial Site Recovery Act (ISRA) identifying both documented and undocumented USTs through a geophysical investigation, a former drainage system contaminated with chlorinated organic solvents, and floor drains whose integrity was compromised by acids spilled during the company's manufacturing processes.
- Project engineer for the **PA/SI** of the Fairleigh Dickinson University, Rutherford, NJ campus. Prior to the property's sale, performed a detailed **PA/SI** of this 11.5-acre college campus comprising 13 buildings housing offices, auditoriums, classrooms, laboratories and residence halls. Prepared a comprehensive **SI** Report detailing sampling at each of the Site's nine (9) USTs in accordance with the NJDEP's Technical Requirements.
- Project engineer for the **PA/SI** and emergency remedial action at the Garden State Industrial Park warehouse complex in Wyckoff, NJ. Performed and authored a detailed **PA** report, identifying four (4) previously undocumented and leaking USTs using ground penetrating radar (GPR).
- Project engineer for the remediation/demolition of Witco Chemical, a 100-year old former fatty acid manufacturing plant adjacent to the Passaic Valley Sewerage Commissioners (PVSC) plant in Newark, New Jersey. Prior to the 17-acre site's acquisition by the PVSC, reviewed all previous ISRA reporting by the property's former owner. During the demolition and remediation provided professional oversight for the removal of all hazardous materials from the site, arranged and coordinated the transportation and disposal of over 140-tons of fatty acid residual waste from beneath the building floor slabs. The project subsequently received a Distinguished Service Award from the Consulting Engineers Council of New Jersey.

BOSWELL
ENGINEERING

MARC PAUL FRESCHI, E.I.T.
Environmental Engineer

HIGHLIGHTS:

- Over 7-years experience in site investigation and remediation projects.

EDUCATION:

BS, Environmental Engineering, New Jersey Institute of Technology

PROFESSIONAL REGISTRATION:

Engineer-In-Training (EIT)

CERTIFICATIONS:

OSHA 40-Hour Hazardous Waste Site Operations
OSHA 10-Hour Construction Safety
NJDEP Licensed for UST – Subsurface Evaluation
Confined Space Entry

RELEVANT EXPERIENCE:

Mr. Freschi has over 7-years of experience in civil and environmental engineering. He has participated in a wide variety of Site and Remedial Investigations (SI/RI), Remedial Actions (RA) and underground storage tank (UST) removals completed in accordance with the New Jersey Department of Environmental Protection's (NJDEP) Technical Requirements. Mr. Freschi has also prepared SI/RI Reports, Remedial Action Workplans (RAW), bid documents and specifications and provided construction management and resident engineering for soil/groundwater remediation and building demolition.

His specific project experience includes:

- Performed the groundwater RI of petroleum contaminants at the Borough of Fairview Department of Public Works (DPW) following a UST removal. Work included providing geologic oversight during monitoring well installation; obtaining the requisite access agreements from neighboring property owners, continuing the horizontal/vertical delineation of groundwater contamination (both on and off-site); and performed detailed baseline ecological and receptor evaluations (well canvas & survey, storm sewer, etc.) in accordance with the NJDEP's Technical Requirements.

- Performed the soil RI and RA at the Borough of Paramus Municipal Pool. Work included establishing a 50' x 50' grid across the entire 4-acre property and performing soil subsurface evaluation delineating the horizontal/vertical extent of soil contamination in accordance with NJDEP requirements. Following contaminant delineation, prepared detailed plans and specifications for the removal of over 9,000-tons of polychlorinated biphenyl (PCB) and pesticide (chlordane and dieldrin) contaminated soil. The work was performed in the winter of 2009 and "fast-tracked" in order to open the pool for the summer season. The project was successfully completed and the NJDEP issued a No Further Action (NFA) letter only days before the pool's opening on Memorial Day weekend.

- Performed a comprehensive SI, UST removal and soil/groundwater RI at the Borough of Haledon's former DPW site, located immediately adjacent to the environmentally sensitive Haledon Reservoir. Completed a UST removal, and a soil/groundwater RI delineating the horizontal/vertical extent of soil contamination associated with the garage's former floor drain system and former drum container storage area. The drain system flowed to a cesspool located immediately adjacent to the garage with overflow water outletting to a spillway draining from the Haledon Reservoir. Following the cesspool's remediation, provided contractor oversight during the garage's demolition and site restoration.

- Performed a SI/RI and RA of three (3) separate properties (former bakery, vacant lot, trucking garage) located in Cliffside Park, NJ. The Borough planned to purchase the contiguous sites to construct a proposed Satellite DPW facility. During the PA, identified an extensive floor drain system beneath the trucking garage. The subsequent SI also identified historic fill material present in an approximate 2' layer beneath all 3 sites. Following the Borough's purchase of the properties, removed two (2) aboveground storage tanks (AST), video traced, decontaminated and removed 300 linear feet of floor drain piping and completed a comprehensive asbestos containing material (ACM) survey. Prepared a detailed plans and specifications for the building's demolition and provided contractor oversight during the work. Given that the site was to be utilized as a DPW garage, prepared a RAW including a Deed Notice allowing the historic fill to remain avoiding costly remediation (i.e. excavation and disposal).

BOSWELL
ENGINEERING

CHRIS COLABAUGH
Geologist

EDUCATION:

B.S., Geology, Kutztown University of Pennsylvania
A.S., Environmental Science, Raritan Valley Community College
A.S., Chemistry, Raritan Valley Community College

CERTIFICATIONS:

OSHA 40-Hour Hazardous Waste Site Operations
OSHA 10-Hour Construction Safety
NJ Transit Railway Safety Training

HIGHLIGHTS:

- Experience with both Phase I Environmental Site Assessments and NJDEP Preliminary Assessments.
- Prepared Preliminary Assessments and Site Investigations for private, municipal, and Industrial Site Recovery Act (ISRA) projects.

RELEVANT EXPERIENCE:

Mr. Colabaugh has over 1-year of experience as a geologist conducting environmental site remediations. He has participated in a variety of **Preliminary Site Assessments (PA), Environmental Assessments (EA), Site Investigations, and Phase I Environmental Site Assessments (ESA)** as well as remedial investigations, remedial actions, and receptor evaluations. He has also prepared several PA reports, EA reports, and Phase I ESA reports. Mr. Colabaugh also has over 3-years of experience with Geographic Information Systems (GIS) including subsurface topography mapping, shallow overburden and bedrock groundwater contour mapping, 1-mile radius well search mapping, preparing sensitive population maps, and data management.

His specific experience with **PA** and **SI** projects includes:

- Performed a Green Acres PA report and follow-up SI work for the Closter Swim Club in the Borough of Closter, NJ. PA work included records reviews of Sanborn Fire Insurance maps, historic topographic maps, historic aerial images, directory searches, and Open Public Records Request pursuant to NJDEP's Technical Requirements. The PA identified six (6) areas of concern and was able to eliminate all but three (3). The radius search discovered two (2) site remediation cases that may be impacting the on-site potable well. The historic aerial images suggest that prior to 1931 the site was at least partially used for agricultural farming and may be impacted by historic pesticide contamination. Future SI work will include collecting six (6) subsurface soil samples for pesticides, potable well sampling for VOCs, semi-volatile organic compounds (semi-VOCs), and pesticides. Boswell will also dye trace and video inspect the one (1) sump pump line from the pool's backwash pit before issuing the site a remedial action outcome (RAO) of no further action.

- Performed a Preliminary Assessment report for National Paper Envelope, a printing company, which through investigation of the McRAEs Industrial Directory, was determined to be Industrial Site Recovery Act (ISRA) applicable requiring a RAO of no further action prior to the sale of the property. The site contained an exhaust pipe that caused organic staining on the nearby asphalt pavement and a chemical storage room with a leaking roof. A limited investigation of the surficial soils to determine the impact of these two (2) separate source areas was recommended prior to the issuance of an RAO. Based upon these recommendations the subject property owner decided not to sell the property at this time.

- Prepared a Green Acres Environmental Assessment (EA) Report for the proposed changes to Harold Wall's Field in Rutherford. The EA is designed to inform Green Acres of the proposed improvements to the site including changes to the existing ball fields, installation of retaining walls, installation of new picnic tables and new parking lot, etc. as well as the existing site conditions, soil and sediment control measures. The report should discuss all possible potential environmental impacts resulting from the proposed changes so that Green Acres can determine if they will provide funding for the project.

- Prepared a Phase I ESA for an office building/parking garage complex in the City of Hackensack as part of the due diligence required of Bergen County prior to purchasing the property. The report identified one (1) potential AOC associated with the possibility of a former fuel oil tank used for heating the former residencies dwelling that appeared on the site prior to 1902 until approximately 1985. Based on the age of the construction of the building, it was determine that any Underground Storage Tank (UST) on the site would have been excavated and removed in order to prepare the site for the existing office building. Therefore, we were able to recommend no further action for the site.

APPENDIX M

Tier II Reduced and Electronic Data Deliverables

(Attached Separately)

Site Investigation Report for Block 12, Lots 1-7, 9, 7& 11-18

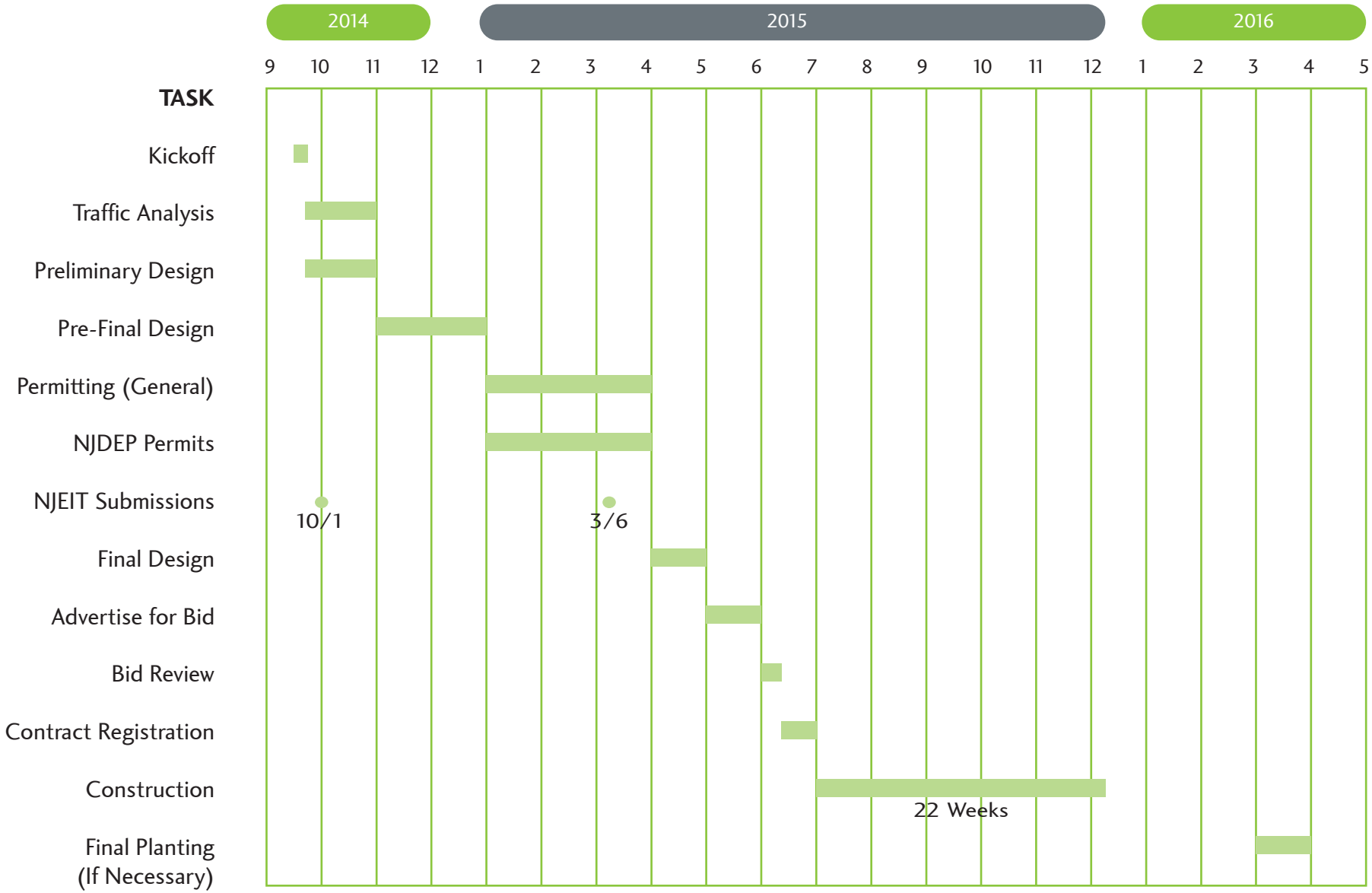
Appendix M
Tier II Reduced Laboratory Deliverables

Our File No. HO-458

APPENDIX Q

Draft Project Schedule

PROJECT SCHEDULE



Project Cost Estimates (50% Design Development),
Prepared by Toscano Clements Taylor Cost Consultants, 02/25/15
Hoboken South West Park Project / Project No. SRF 340635-05

TOSCANO CLEMENTS TAYLOR
COST CONSULTANTS
16 OAKWOOD ROAD
HUNTINGTON NY 11743
(631) 392 1400

50% DESIGN DEVELOPMENT ESTIMATE

Hoboken SW Block 12 Park Estimating

50% DESIGN DEVELOPMENT ESTIMATE

2/9/2015

THE CONSTRUCTION OF HOBOKEN SW 12 PARK

2/9/2015

QUALIFICATIONS :

1 The estimate is base on Starr Whitehouse Landscape Architects and Planners PLLC Drawings
2 Unit prices are based on NYDPR's unit price format with some adjustments made for Hoboker
3 We have assumed escalation to be 4% until we have projected construction duration and start
4 The following items are excluded :
   Construction contingency
   Phase work
   Soil remediation
   Phasing
   Rock excavation

THE CONSTRUCTION OF HOBOKEN SW 12 PARK

2/9/2015

SUMMARY

CONSTRUCTION w/6% MOBILIZATION		**$**	**3,837,552**
OH & PROFIT/GEN'L CONDITION	0%	$	-
		$	3,837,552
ESCALATION	4%	$	153,502
		$	3,991,054
DESIGN CONTINGENCY	10%	$	399,105
		$	4,390,159
CONSTRUCTION CONTINGENCY	5%	$	219,508
		$	4,609,667
BID CONTINGENCY	5%	$	230,483
GRAND TOTAL		**$**	**4,840,151**

Hoboken SW Block 12 Park Estimating

Borough to Hudson County

50% DESIGN DEVELOPMENT ESTIMATE

ITEM NO.	ITEM DESCRIPTION	UNIT MEAS	UNIT PRICE	QTY	AMOUNT
.	**General Requirements**				
0	MOBILIZATION (N.T.E. 6% OF TOTAL OF ALL OTHER ITEMS)	LS	----	------	$ 217,220
0	RODENT EXTERMINATION	LS	$ 2,750.00	1	$ 2,750
0	CONSTRUCTION SIGN ON FENCE	EA	$ 1,750.00	1	$ 1,750
0	CONSTRUCTION SIGN ON FRAME	EA	$ 1,900.00	1	$ 1,900
0	PUBLIC DESIGN COMMISSION PHOTO DOCUMENTATION	LS	$ 3,000.00	1	$ 3,000
0	CONSTRUCTION FENCE 8'-0" HT.	LF	$ 33.00	1,037	$ 34,221
	FENCE GATES 24' WIDE	EA	$ 2,400.00	2	$ 4,800
0	MAINTENANCE & PROTECTION OF TRAFFIC - TYPE A	LS	$ 5,250.00	1	$ 5,250
0	TEMPORARY WOODEN TREE GUARD	EA	$ 230.00	4	$ 920
	Removals (Requirements Contracts)			-	
	ITEMIZED REMOVALS (N.T.E. $)	LS	$ -	-	$ -
0	REMOVE BLOCK AND/OR STONE, ASPHALT PAVEMENT	SY	$ 17.00	4,022	$ 68,374
	REMOVE SIDEWALK	SF	$ 2.77	4,551	$ 12,606
	REMOVE COBLE STONE	SF	$ 2.77	1,814	$ 5,025
	REMOVE EXISTING FOUNDATION	SF	$ 3.50	1,585	$ 5,548
	REMOVE SLAE WALK	SF	$ 2.77	586	$ 1,623
0	REMOVE CHAIN LINK FENCE	SF	$ 3.00	982	$ 2,946
	REMOVE OVERHEAD WIRE	LF	$ 3.00	117	$ 351
	REMOVE BOLLARD	EA	$ 250.00	7	$ 1,750
0	REMOVE IRON FENCE TURN OVER TO OWNER	LF	$ 15.00	95	$ 1,425
0	REMOVE CONCRETE CURB	CY	$ 99.00	60	$ 5,940
	REMOVE AREA LIGHT	EA	$ 150.00	6	$ 900
	REMOVE CATCH BASIN STRUCTURE	EA	$ 600.00	4	$ 2,400
	Site Work		**$425,664.75**	-	
	CLEAR VEGETATION	SF	$ 0.25	4,227	$ 1,057
0	GRADING (PLANTED AREA)	SF	$ 1.00	16,988	$ 16,988
	Bioswale Planting Mix	SF	$ 2.00	16,988	$ 33,976
	GENERAL GRADING OF THE SITE	LS	$ 1.00	5,000	$ 5,000
0	UNCLASSIFIED EXCAVATION (FOR DRAINAGE SYSTEM)	CY	$ 60.00	2,826	$ 169,560
0	PLANT/TREE EXCAVATION	CY	$ 60.00	630	$ 37,800
0	BORROWED FILL gravel (TRUCK MEASURED) FOR HDPE and pa	CY	$ 52.00	860	$ 44,720
0	BORROWED FILL (TRUCK MEASURED) FOR DOG RUN	CY	$ 52.00	180	$ 9,360
0	EARTH MOVING OPERATIONS - GRADING	CY	$ 38.00	2,158	$ 82,004
0	STRIP, STORE & SPREAD EXISTING TOPSOIL	CY	$ 40.00	630	$ 25,200
	Erosion Control and Containment		**$27,765.00**	-	
0	ALLOWANCE FOR the Hudson-Essex-Passaic Soil Conservation District PERMITS	AL	$ 5,000.00	1	$ 5,000
0	CATCH BASIN SILT SACK	EA	$ 320.00	23	$ 7,360
0	TEMPORARY SILT FENCE	LF	$ 9.00	1,037	$ 9,333
0	STABILIZED CONSTRUCTION ENTRANCE	SY	$ 44.00	138	$ 6,072
	Utilities-Drainage			-	
0	HDPE PIPE- 8" DIA.	LF	$ 42.00	594	$ 24,948
0	HDPE PIPE - 12" DIA.	LF	$ 46.00	93	$ 4,278
0	HDPE PIPE - 15" DIA.	LF	$ 60.00	48	$ 2,880
0	HDPE PIPE - 24" DIA.	LF	$ 72.00	1,337	$ 96,264
0	HDPE PIPE - 36" DIA.	LF	$ 80.00	962	$ 76,960
0	PARKS LEAF MANHOLE COVER & FRAME	EA	$ 886.00	12	$ 10,632
0	PARKS LEAF CATCH BASIN COVER & FRAME	EA	$ 930.00	2	$ 1,860
0	CATCH BASIN - D.E.P. TYPE 1	EA	$ 7,000.00	2	$ 14,000
	RELOCATE CATCH BASIN	EA	$ 1,000.00	5	$ 5,000
0	MANHOLE - D.E.P. TYPE A-1	EA	$ 5,500.00	12	$ 66,000
	AREA DRAIN	EA	$ 5,500.00	17	$ 93,500
	CONTROL STRUCTURE	EA	$ 10,000.00	3	$ 30,000
	CONNECT PIPE TO EXISITNG STRUCTURE	EA	$ 1,000.00	2	$ 2,000
	Utilities - Water		**$85,254.00**	-	

50% DESIGN DEVELOPMENT ESTIMATE

ITEM NO.	ITEM DESCRIPTION	UNIT MEAS	UNIT PRICE	QTY	AMOUNT
0	WET CONNECTION - 3" DIA.	EA	$ 8,720.00	1	$ 8,720
0	RPZ & WATER METER W/REMOTE & STRUCT - 3" DIA.	EA	$ 23,500.00	1	$ 30,000
0	RPZ & WATER METER FOR BLDG. 3" DIA.	EA	$ 18,750.00	1	$ 18,750
0	TYPE K COPPER TUBING - 2" DIA.	LF	$ 48.00	454	$ 21,792
0	TYPE K COPPER TUBING - 3" DIA.	LF	$ 56.00	82	$ 4,592
0	CURB & PROPERTY LINE VALVES - 2" DIA.	SET	$ 1,000.00	1	$ 1,000
0	CAST IRON VALVE BOX - 5 1/4" DIA.	EA	$ 400.00	1	$ 400
	HOSE BIB	EA	$ 500.00	1	$ 500
	3/4" Flush Box Hydrant with locking Lid	EA	$ 2,000.00	4	$ 8,000
	underground pit/vault for the meter set	ea	$ 5,500.00	1	$ 5,500
	Irrigation		**$ -**	-	
	IRRIGATION	LS	$ -	-	$ -
	Pipe Sleeve PVC Sched 40 4" diam	LF	$ 65.00	152	$ 9,880
	200 PSI SDR 21 PVC pipe main Line 2"	LF	$ 45.00	495	$ 22,275
	200 PSI SDR 21 PVC pipe main Line 1-1/2"	LF	$ 40.00	2,124	$ 84,960
	NETAFIM Flush Valve	EA	$ 60.00	6	$ 360
	Netafim Air release Valve	EA	$ 65.00	2	$ 130
	Matco Gate Valve	EA	$ 75.00	7	$ 525
	Hunter ICV electric gate valve shut off	EA	$ 75.00	6	$ 450
	Hunter Drip zone control Kit	EA	$ 1,000.00	6	$ 6,000
	Hunter RZWS root Zone watering system 36" with manual shut off	EA	$ 150.00	42	$ 6,300
	NETAFIM Flush Valve	EA	$ 85.00	6	$ 510
0	RAINBIRD NOZZLE	EA	$ 200.00	36	$ 7,200
0	QUICK COUPLING VALVE	EA	$ 300.00	8	$ 2,400
	Pavement - New		**$259,384.00**	-	
0	FULL DEPTH ASPHALT PAVEMENT	SY	$ 55.00	252	$ 13,860
0	STONE DUST PAVING	SY	$ 59.00	212	$ 12,508
0	REINFORCED CONCRETE PAVEMENT	SY	$ 111.00	1,426	$ 158,286
0	CONCRETE PAVERS ON SAND BASE	SY	$ 159.00	470	$ 74,730
	COBBLE STONE PAVEMENT	SY	$ 270.00	85	$ 22,950
	Masonry - Concrete		**$ 434,078**	-	
	FOUNDATION FOR ALUMINUM BRIDGE	CY	$ 5,000.00	0.25	$ 1,250
	RETAINING WALL	CY	$ 900.00	92	$ 82,800
	DOG RUN RETAINING WALL	CY	$ 900.00	90	$ 81,000
	BOULDERS	EA	$ 1,500.00	25	$ 37,500
	stepping boulders DL-3SB	EA	$ 3,200.00	6	$ 19,200
	climbing boulders DL-250CB SMALL	EA	$ 2,000.00	4	$ 8,000
	medium climbing boulders DL-250CB	EA	$ 3,000.00	2	$ 6,000
	large climbing boulder DL-GRN-SM	EA	$ 4,000.00	1	$ 4,000
	8" CMU BLOCKING FOR CONCRETE SEATING	LF	$ 44.00	192	$ 8,448
	CONCRETE SEATING FOUNDATION	CY	$ 600.00	31	$ 18,600
	38 X 38 X 8 STONE ON TOP OF THE CONCRETE SEATING	SF	$ 120.00	709	$ 85,080
	10" STONE BLOCKING FOR CONCRETE SEATING	LF	$ 65.00	140	$ 9,100
	38 X 38 X 4 STONE PAVERS WITH 5" GRAVEL BASE	SF	$ 65.00	340	$ 22,100
	CONCRETE SCULPTURE	CY	$ 4,500.00	11	$ 49,500
	FOUNDATION FOR RAIN MAKER	CY	$ 1,500.00	1	$ 1,500
	Curbs		**$103,484.00**	-	
	ASPHALT BLOCK CURB	LF	$ 32.00	-	$ -
0	CONCRETE CURB	LF	$ 38.00	1,153	$ 43,814
0	STEEL EDGING	LF	$ 18.00	3,315	$ 59,670
	Site Furnishings		**$35,950.00**	-	
0	BICYCLE RACK	EA	$ 850.00	4	$ 3,400
	BENCH HEXAGONAL (MAT)		$ 3,690.00	1	$ 3,690
	BENCH (MAT)		$ 2,220.00	13	$ 28,860

Hoboken SW Block 12 Park Estimating

Borough to Hudson County

50% DESIGN DEVELOPMENT ESTIMATE

ITEM NO.	ITEM DESCRIPTION	UNIT MEAS	UNIT PRICE	QTY	AMOUNT
	DANCING CHIMES	EA	$ 44,580.00	1	$ 44,580
	RAINMAKER	EA	$ 4,610.00	1	$ 4,610
	TRADH / RECYCLE Bin	EA	$ 6,900.00	3	$ 20,700
	Crystal Litter Bin	EA	$ 1,100.00	1	$ 1,100
	CHARGING STATION	EA	$ 20,000.00	1	$ 20,000
	GT DRINKING FOUNTAIN / dog bowl	EA	$ 4,750.00	1	$ 4,750
	CAFÉ TABLES AND CHAIRS (LABOR INCLUDED)	EA	$ 1,800.00	15	$ 27,000
	ALUMINUM BRIDGE	SF	$ 65.00	157	$ 10,205
	Fence -		**$12,012.00**	-	
0	MESH FOR CHAIN LINK FENCE - 2" (TYPE A)	SF	$ 28.00	429	$ 12,012
	FENCE TYPE B WOOD SLAT	SF	$ 15.00	300	$ 4,500
	FENCE TYPE C WOOD SLAT	SF	$ 15.00	288	$ 4,320
	FENCE TYPE D STEEL BAR	SF	$ 15.00	2,503	$ 37,545
	Paint - Pavements/A.D.A. Sign			-	
	thermoplastic crosswalks	EA	$ 1,100.00	4	$ 4,400
	Landscape - Lawn		**$98,178.00**	-	
0	TOPSOIL FOR SEEDED AND SODDED AREAS	CY	$ 63.00	1,260	$ 79,380
0	GRASS SEED WITH COMPOST	LB	$ 42.00	43	$ 1,806
0	CONSTRUCT LAWN	SY	$ 9.00	1,888	$ 16,992
	Landscape - General		**$467,899.00**	-	
0	SHREDDED BARK MULCH @PLANTING AREA	SY	$ 10.00	850	$ 8,500
0	TOPSOIL FOR PLANTING PITS & BEDS	CY	$ 63.00	150	$ 9,450
	SHADBLOW SERVICE BERRY	EA	$ 260.00	8	$ 2,080
	RIVER BIRCH	EA	$ 203.00	13	$ 2,639
	GOLDEN RAINTREE	EA	$ 330.00	17	$ 5,610
	SWEETGUM	EA	$ 550.00	1	$ 550
	AMERICAN SYCAMORE	EA	$ 450.00	5	$ 2,250
	KWANZAN CHERRY	EA	$ 270.00	2	$ 540
	SWAMP WHITE OAK	EA	$ 1,800.00	15	$ 27,000
	RED CHOKEBERRY	EA	$ 100.00	12	$ 1,200
	SWEET FERN	EA	$ 60.00	28	$ 1,680
	DWARF FOTHERGILLA	EA	$ 80.00	14	$ 1,120
	INKBERRY	EA	$ 80.00	56	$ 4,480
	WINTERBERRY HOLLY (MALE)	EA	$ 100.00	2	$ 200
	WINTERBERRY HOLLY	EA	$ 100.00	19	$ 1,900
	LOW GROW FRAGRANT SUMAC	EA	$ 155.00	16	$ 2,480
	BUGBANE	EA	$ 60.00	6	$ 360
	BROOM SEDGE	EA	$ 280.00	187	$ 52,360
	SMOOTH ASTER	EA	$ 160.00	84	$ 13,440
	ASTILBE	EA	$ 90.00	50	$ 4,500
	BLUE GRAMA	EA	$ 150.00	995	$ 149,250
	PENNSYLVANIA DEGE	EA	$ 50.00	461	$ 23,050
	BLEEDING HEART	EA	$ 60.00	9	$ 540
	CONEFLOWER	EA	$ 60.00	584	$ 35,040
	WINTERGREEN	EA	$ 60.00	49	$ 2,940
	SPOTTED GERANIUM	EA	$ 60.00	38	$ 2,280
	HELLEBORE	EA	$ 70.00	36	$ 2,520
	BLUE FLAG IRIS	EA	$ 60.00	47	$ 2,820
	SOFT RUSH	EA	$ 60.00	112	$ 6,720
	GAYFEATHER	EA	$ 60.00	414	$ 24,840
	SWITCHGRASS	EA	$ 60.00	227	$ 13,620
	CREEPING PHLOX	EA	$ 60.00	33	$ 1,980
	SOLOMON'S SEAL	EA	$ 60.00	32	$ 1,920

50% DESIGN DEVELOPMENT ESTIMATE

ITEM NO.	ITEM DESCRIPTION	UNIT MEAS	UNIT PRICE	QTY	AMOUNT
	CHRISTMAS FERN	EA	$ 60.00	37	$ 2,220
	LITTLE BLUESTEM	EA	$ 100.00	290	$ 29,000
	FOAM FLOWER	EA	$ 60.00	227	$ 13,620
	TOAD LILY	EA	$ 60.00	14	$ 840
	TRUMPET HOEYSUCKLE	EA	$ 60.00	6	$ 360
	QUAMASH	EA	$ 30.00	60	$ 1,800
	CROCUS	EA	$ 3.00	1,200	$ 3,600
	SNOWDROP	EA	$ 3.00	1,200	$ 3,600
	SUMMER SNOWFLAKE	EA	$ 3.00	1,000	$ 3,000
	Building			-	
	Prefab Portland Loo Option 3 structure	EA	$92,600.00	1	$ 92,600
	Shipping and Handling	EA	$4,395.00	1	$ 4,395
	Mobilization, material handling, hoisting, crane and cleaning	LS	$ 10,000.00	1	$ 10,000
	Excavate	LS	$ 3,500.00	1	$ 3,500
	Footing	LS	$ 8,500.00	1	$ 8,500
	Slab	LS	$ 3,500.00	1	$ 3,500
	Water	LS	$9,000.00	1	$ 9,000
	Sewer	LS	$8,000.00	1	$ 8,000
	Electric	LS	$12,000.00	1	$ 12,000
				1	$ -
	UTILITY STRUCTURE	EA	$ 49,653.34	1	$ 49,653
	Mobilization, material handling, hoisting, crane and cleaning	LS	$ 10,000.00	1	$ 10,000
	Excavate	CY	$ 60.00	20	$ 1,200
	Footing	LF	$ 160.00	44	$ 7,040
	Slab	SF	$ 12.00	112	$ 1,344
	Erect Prefab walls	SF	$ 15.00	750	$ 11,250
	Erect Prefab Roof	SF	$ 30.00	112	$ 3,360
	Install Doors	EA	$ 2,500.00	2	$ 5,000
	Miscl. Items for finishes other installation	LS	$ 8,000.00	1	$ 8,000
	Storm Water Management		**$260,420.00**	-	
0	PERMEABLE CONCRETE PAVERS ON STONE BASE	SY	$ 133.00	1,240	$ 164,920
0	SUBBASE MATERIAL FOR PERMEABLE CONCRETE PAVERS	CY	$ 82.00	550	$ 45,100
0	TOPSOIL FOR BIORETENTION	CY	$ 80.00	630	$ 50,400
	Miscellaneous		**$4,700.00**	-	
0	RELOCATE EXIST'G SIGN WITH NEW METAL POST	EA	$ 1,000.00	5	$ 5,000
0	CUSTOM SIGN	EA	$ 2,350.00	2	$ 4,700
x	**Site Lighting**				$ -
	LIGHT POLE, 1 LUMINAIR, NOTES 3, 4, 5	EA	$ 5,500.00	30	$ 165,000
	FLOOD LIGHT ATTACHED TO A POLE 2	EA	$ 1,500.00	6	$ 9,000
	WEATHERPROOF WALL RECEPTACLES	EA	$ 600.00	4	$ 2,400
	20 A DEDICATED CIRCUITS FOR OUTDOOR WALL RECEPTACLE	EA	$ 600.00	8	$ 4,800
	208 V 3PH, 200A, 42 POLE BOARD	EA	$ 4,500.00	1	$ 4,500
	FEED TO PANEL FROM UTILTIY POLE	EA	$ 10,000.00	1	$ 10,000
	20 A DEDICATED CIRCUIT	EA	$ 600.00	4	$ 2,400
	20 A DEDICATED CIRCUIT FOR PUMP	EA	$ 650.00	1	$ 650

Hoboken SW Block 12 Park Estimating

Borough to Hudson County

50% DESIGN DEVELOPMENT ESTIMATE

ITEM NO.	ITEM DESCRIPTION	UNIT MEAS	UNIT PRICE	QTY	AMOUNT
x	BASE TOTAL W/MOBILIZATION……				$ 3,837,552
x	BASE TOTAL W/O MOBILIZATION……				$ 3,620,332

NJDEP Threatened and Endangered Species Habitat Correspondence,
Prepared by Langan Engineering & Environmental Services, 12/04/2014
Hoboken South West Park Project / Project No. SRF 340635-05

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
State Forestry Services
Mail Code 501-04
ONLM - Natural Heritage Program
P.O. Box 420
Trenton, NJ 08625-0420
Tel. #609-984-1339
Fax. #609-984-1427

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

December 4, 2014

Michelle Wenelczyk
Langan Engineering and Environmental Services, Inc.
619 River Drive Center 1
Elmwood Park, NJ 07407

Re: SW Park

Dear Ms. Wenelczyk:

Thank you for your data request regarding rare species information for the above referenced project site in Hoboken City, Hudson County.

Searches of the Natural Heritage Database and the Landscape Project (Version 3.1) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the topographic map(s) submitted with the Request for Data into our Geographic Information System. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Landscape Project habitat mapping and the Biotics Database for occurrences of any rare wildlife species or wildlife habitat on the referenced site. The Natural Heritage Database was searched for occurrences of rare plant species or ecological communities that may be on the project site. Please refer to Table 1 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented on site. A detailed report is provided for each category coded as 'Yes' in Table 1.

We have also checked the Landscape Project habitat mapping and Biotics Database for all occurrences of rare wildlife species or wildlife habitat within one mile of the referenced site. Please refer to Table 2 (attached) to determine if any rare wildlife species or wildlife habitat is documented within one mile of the project site. Detailed reports are provided for each category coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

For requests submitted as part of a Flood Hazard Area Control Act (FHACA) rule application, we report records for all rare plant species and ecological communities tracked by the Natural Heritage Program that may be on your project site. (In some borderline cases these records may be described as on or in the immediate vicinity of your project site.) A subset of these plant species are also covered by the FHACA rules when the records are located within one mile of the project site. One mile searches for plant species will only report occurrences for those plant species identified under the FHACA regulations as being critically dependent on the watercourse. Please refer to Table 2 (attached) to determine if any rare plant species covered by the FHACA rules have been documented. Detailed reports are provided for each category coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and ecological communities. Please refer to Tables 1 and 2 (attached) to determine if any priority sites are located on or within one mile of the project site.

A list of rare plant species and ecological communities that have been documented from the project site, referenced above, can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/countylist.html. If suitable habitat is present at the project site, the species in that list have potential to be present.

Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes_2010.pdf.

If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive NJ-GeoWeb website at the following URL, http://www.state.nj.us/dep/gis/geowebsplash.htm or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292-9400.

PLEASE SEE 'CAUTIONS AND RESTRICTIONS ON NHP DATA', which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/newcaution2008.pdf.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,

Robert J. Cartica
Administrator

c: NHP File No. 14-4007461-6739

Table 1: On Site Data Request Search Results (7 Possible Reports)

Report Name	Included	Number of Pages
1. Possibly on Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. On or In the Immediate Vicinity of the Project Site Based on Search of the Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
3. Natural Heritage Priority Sites On Site	No	0 pages included
4. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.1 Species Based Patches	No	0 pages included
5. Vernal Pool Habitat on the Project Site Based on Search of Landscape Project 3.1	No	0 pages included
6. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.1 Stream Habitat File	No	0 pages included
7. Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included

Table 2: Within 1 Mile for FHACA Searches (6 possible reports)

Report Name	Included	Number of Pages
1. Rare Plant Species Covered by the Flood Hazard Area Control Act Rule Within One Mile of the Project Site Based on Search of Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites within 1 mile	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat Within One Mile of the Project Site Based on Search of Landscape Project 3.1 Species Based Patches	Yes	1 page(s) included
4. Vernal Pool Habitat Within One Mile of the Project Site Based on Search of Landscape Project 3.1	No	0 pages included
5. Rare Wildlife Species or Wildlife Habitat Within One Mile of the Project Site Based on Search of Landscape Project 3.1 Stream Habitat File	No	0 pages included
6. Other Animal Species Within One Mile of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included

Rare Wildlife Species or Wildlife Habitat Within One Mile of the Project Site Based on Search of Landscape Project 3.1 Species Based Patches

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
Aves								
	Glossy Ibis	Plegadis falcinellus	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Little Blue Heron	Egretta caerulea	Foraging	2	NA	Special Concern	G5	S3B,S3N
	Peregrine Falcon	Falco peregrinus	Urban Nest	4	NA	State Endangered	G4	S1B,S3N
	Snowy Egret	Egretta thula	Foraging	2	NA	Special Concern	G5	S3B,S4N
Osteichthyes								
	Shortnose Sturgeon	Acipenser brevirostrum	Migration Corridor - Adult Sighting	5	Federally Listed Endangered	State Endangered	G3	S1