

Appendix A-1

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Environmental & Infrastructure
Thomas M. Gibbons, PMP
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Memorandum

To: Prabal Amin, PE

From: Thomas M. Gibbons, PMP

Date: May 3, 2013

CC: Michael McCabe
Brian McPeak
Richard Feinberg, PG
Mark Terril, PE

Re: Hudson County Chromium (HCC) Site 107 – 18 Chapel Avenue
SRP Program Interest No. G000008728
Vanadium Exceedances in Fill Unrelated to CCPW Fill

On behalf of PPG Industries, Inc. (PPG), Shaw Environmental, Inc., a CB&I Company (Shaw), is pleased to provide this memorandum discussing soils impacted solely by Vanadium at Hudson County Chromium Site 107 (Fashionland) at 18 Chapel Avenue in Jersey City, New Jersey (the Site).

As we presented in the Remedial Strategy Meeting on February 26th, 2013, there are areas of soils in the north-northwest portion of the undeveloped area of the Site where Vanadium is the only Constituent of Potential Concern that is above the Residential Direct Contact Soil Remediation Standard (RDC SRS)¹ or the Chromium Cleanup Criteria². Based on our review of the New Jersey Geological Survey (NJGS) Historic Fill Map, historical aerial photographs, and topographic maps; the 2013 Remedial Investigation Report's soil boring logs in these areas; the distance of the Vanadium-only exceedance area from areas of Chromate Chemical Production Waste (CCPW) fill; and a comparison of the average Vanadium concentration in the north-northwest portion versus the average Vanadium concentration in the area impacted by CCPW fill, Shaw and PPG believe that the Vanadium-only exceedance area is unrelated to CCPW fill activities and should be considered fill from another source.

Evaluation of Soil Boring Logs from the RIR:

Figures 1 and 2 in Attachment One show cross-sections of boring logs from the Vanadium-only exceedance area. These boring logs indicate that the predominant materials in this area of the Site are

¹ N.J.A.C. 7:26D, Remediation Standards, Date last amended May 7, 2012.

² NJDEP Chromium Soil Cleanup Criteria, September 2008, revised April 2010.

roofing shingles and black ash. The boring logs from the CCPW fill area (Figure 3) indicate that the predominant materials are sand and gravel. This Figure also shows a three to four feet layer of clean soil above the CCPW fill. The boring logs from the Vanadium-only exceedance area are in Attachment Two. The boring logs from the CCPW fill area are in Attachment Three.

No Chromium Ore Processing Residue (COPR) was identified in any of the borings in the Vanadium-only exceedance area. COPR was identified generally at depths of three to seven feet in the area impacted by CCPW filling activities. Most of the Vanadium exceedances in the Vanadium-only exceedance area were in shallower soils, typically less than four feet.

The difference in the type of fill materials in the two areas is an indication that the fill materials come from different sources.

Review of Historic Fill Maps:

A review of the NJGS Historic Fill Map for the area of the Site indicates that much of the Site is in an area of Historic Fill. The areas where COPR and CCPW-related metals are located are concentrated in the areas identified by the NJGS as Historic Fill. However, the north-northwest area of the Site is not identified by the NJGS as an area of Historic Fill (Attachment Four). As the Historic Fill Maps are based on aerial photography from 1979 and supplemented in certain areas by aerial photography from 1991 and 1992, the NJGS Historic Fill Map is an indication that the fill in this area of the Site was placed after 1992 and is from a different source.

Review of Historical Aerial Photographs and USGA Topographic Maps:

Shaw reviewed Aerial Photographs dated 1931, 1954, 1966, 1979, 1987, 1995, 2002, 2006, and 2008; and USGS Topographic Maps dated 1947, 1958, 1964, 1969, and 1982 (Attachment Five).

The 1931 and 1954 Aerial Photographs show the Lehigh Valley Railroad line to the east of the Site and the Central Railroad of New Jersey to the north-northwest. Between these two railroads is the undeveloped area of the north-northwest portion of the Site, which appears to be at a lower elevation than the railroads. There also appears to be a surface water drainage feature in this area.

The 1947 USGS Topographic Map indicates that the elevation of the undeveloped area of the north-northwest portion of the Site is less than 20 feet above mean sea level (amsl).

The aerial photographs from 1931 and 1954 and the topographic maps from 1947 and 1958 show that some fill appears to have been added to the Site in the mid-1950s. Additional fill appears to have been added between 1964 and 1966. The building at the Site was constructed between 1964 and 1966. The 1979 aerial photograph shows that the building at the Site is at a higher elevation than the undeveloped area of the north-northwest portion of the Site. A visible drop-off from the location of the building to the adjoining undeveloped parcel is noted in the 1979, 1995, and 2002 aerial photographs. The 2006 aerial photograph shows that additional fill has been added to this area for construction of a parking lot. The undeveloped portion of the Site now appears to be at an elevation similar to the elevation of the portion of the Site where the building was constructed. The February 2011 Site Topographic Survey conducted by Greg S. Gloor for the Dresdner Robin Remedial Investigation Report indicates that this

area of the Site is at an elevation of from 22.6 to 20.5 feet amsl. The aerial photographs and topographic maps are included as Attachment Three.

Evaluation of Analytical Data from the RIR:

According to *A Summary of Selected Soil Constituents and Contaminants at Background Locations in New Jersey*, September, 1993³, the arithmetic mean for Vanadium in New Jersey Urban Soils is 22.6 milligrams per kilogram (mg/kg). This correlates closely with the arithmetic mean for soil sample concentrations from the Vanadium-only exceedance area of 37.5 mg/kg. In contrast, the arithmetic mean for soil sample concentrations from the area impacted by CCPW filling activities is 143.9 mg/kg. This significant difference in the presence of Vanadium concentrations between the two areas is an indication that the fill materials come from different sources.

Conclusions:

Shaw has evaluated multiple lines of evidence, including:

- Borings logs,
- Historic fill maps,
- Historical aerials and topographic maps, and
- Analytical results.

Based on our review of these sources of evidence, we do not believe that the fill materials in the Vanadium-only exceedance area at the north-northwest area of Site 107 are related to CCPW filling operations. Therefore PPG should not be responsible for remediation of this area.

Based on these findings, and pursuant to NJAC 7:26E and current NJDEP Guidance, the presence of historic fill material has been confirmed on-site, is a separate Area of Concern (AOC) associated with a recognized regional historic fill issue, and should be addressed as a stand-alone AOC separate from the small area of CCPW located at the northwest corner of the Site.

Remedial Action Approach

Based on current NJDEP regulations and guidance related to the investigation and remediation of historic fill material, Shaw believes no additional delineation of historic fill material or related contaminants (Vanadium) is necessary, either on or off-site. PPG proposes that any future “presumptive” remedial action associated with the presence of historic fill (administrative/ engineering controls) is the responsibility of the current or future property owner. In addition, future presumptive groundwater remediation activities (CEA/Long Term Monitoring) associated with the historic fill related non-CCPW impacts is also the responsibility of the property owner.

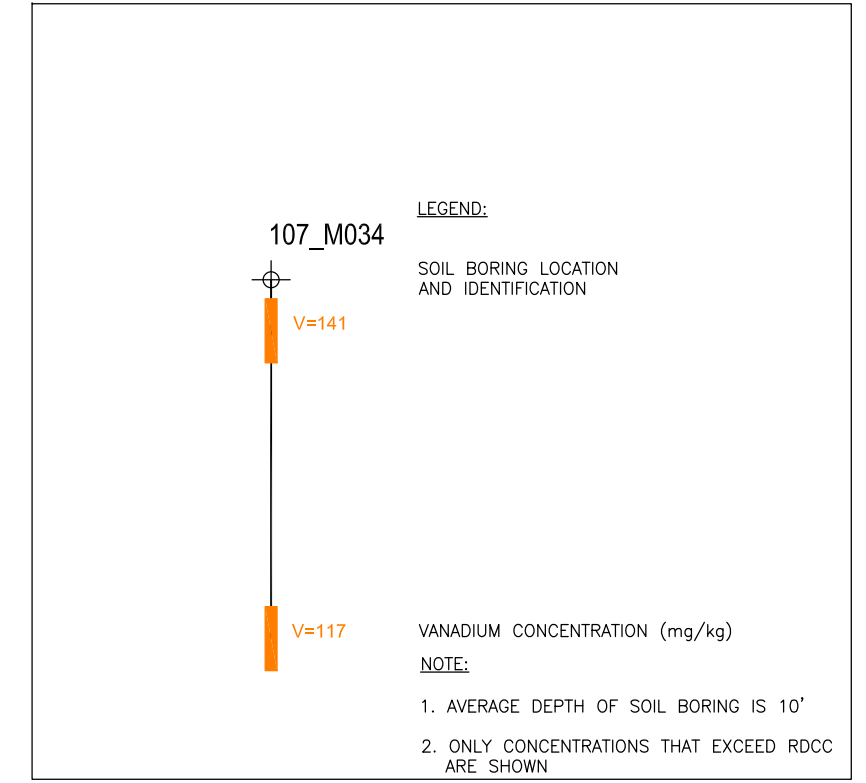
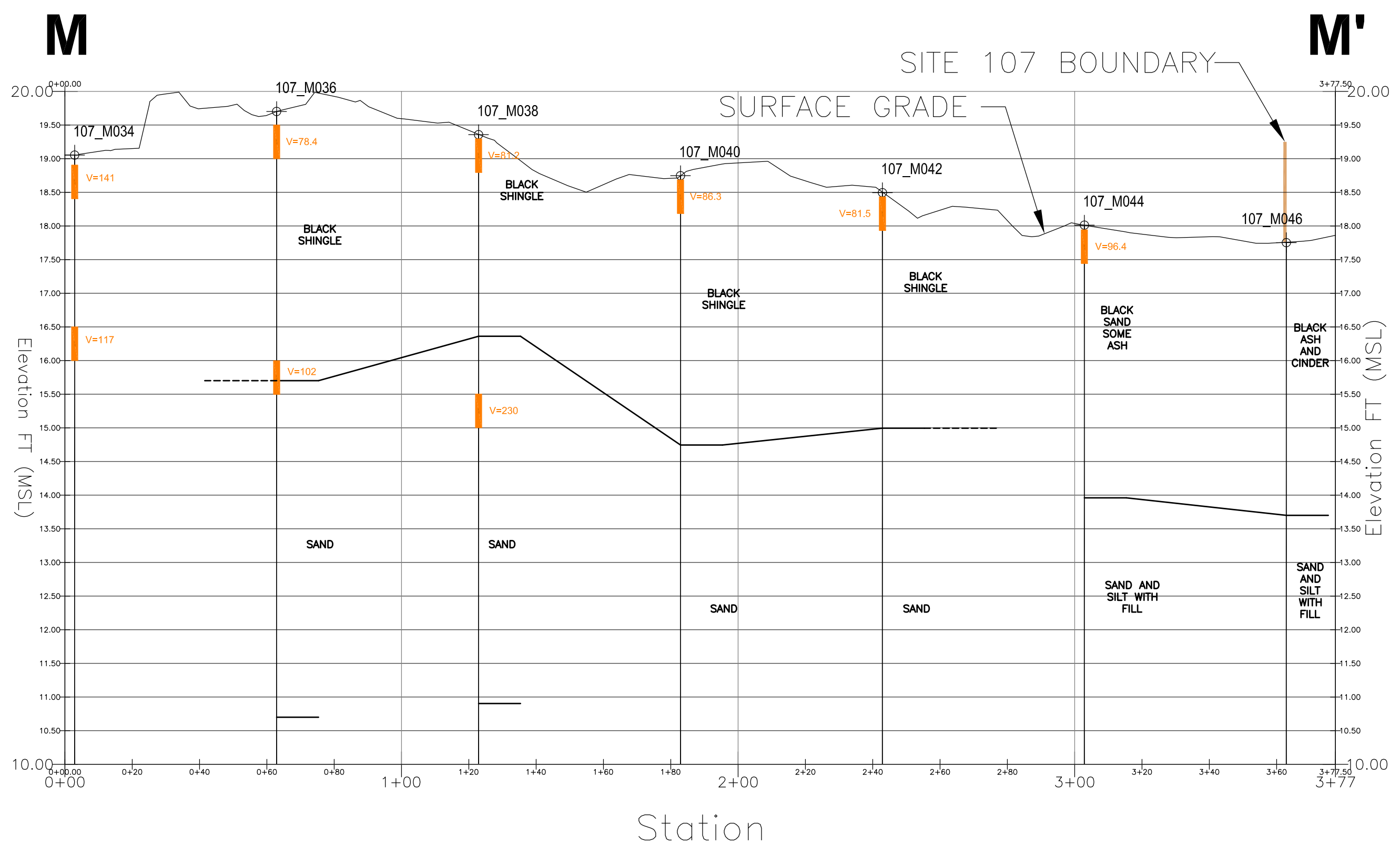
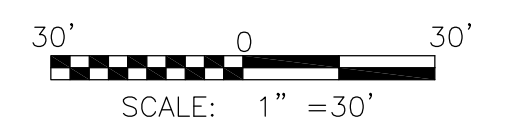
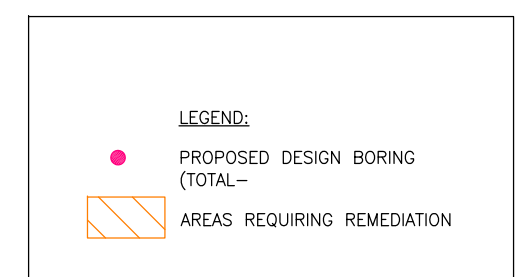
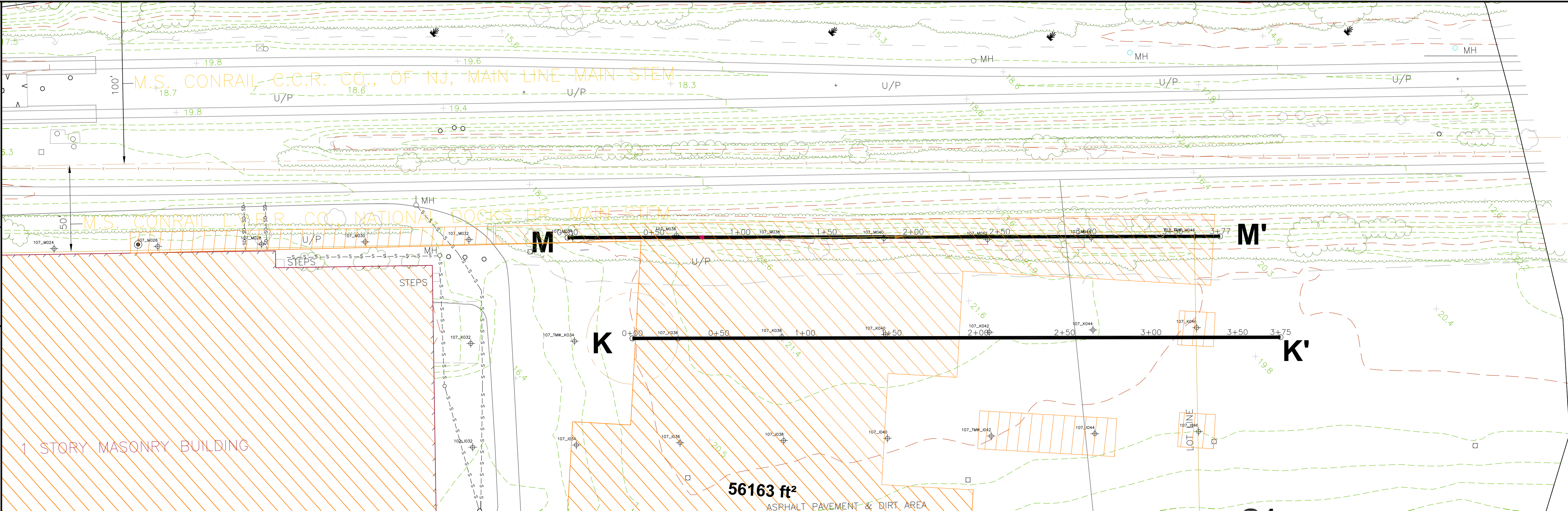
³ A Summary of Selected Soil Constituents and Contaminants at Background Locations in New Jersey. New Jersey Department of Environmental Protection & Energy, Site Remediation Program and Division of Science & Research. September, 1993.

ATTACHMENT ONE

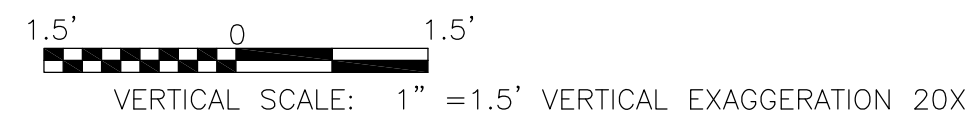
FIGURES - SITE CROSS-SECTIONS

DRAWING NUMBER
146429-D6

OFFICE
Trenton, NJ

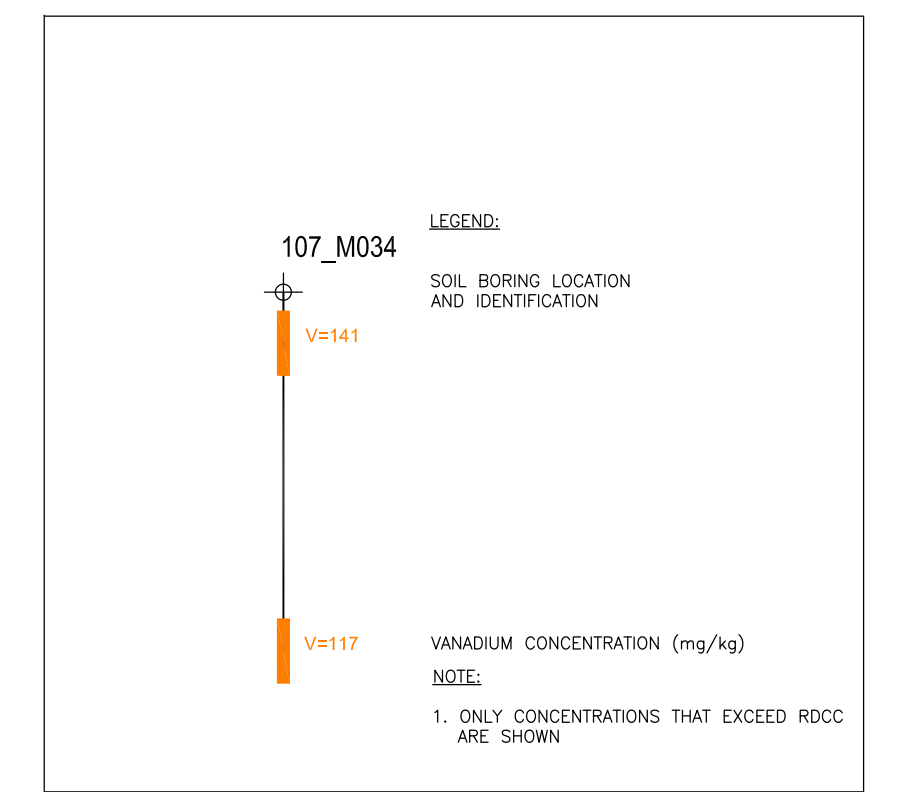
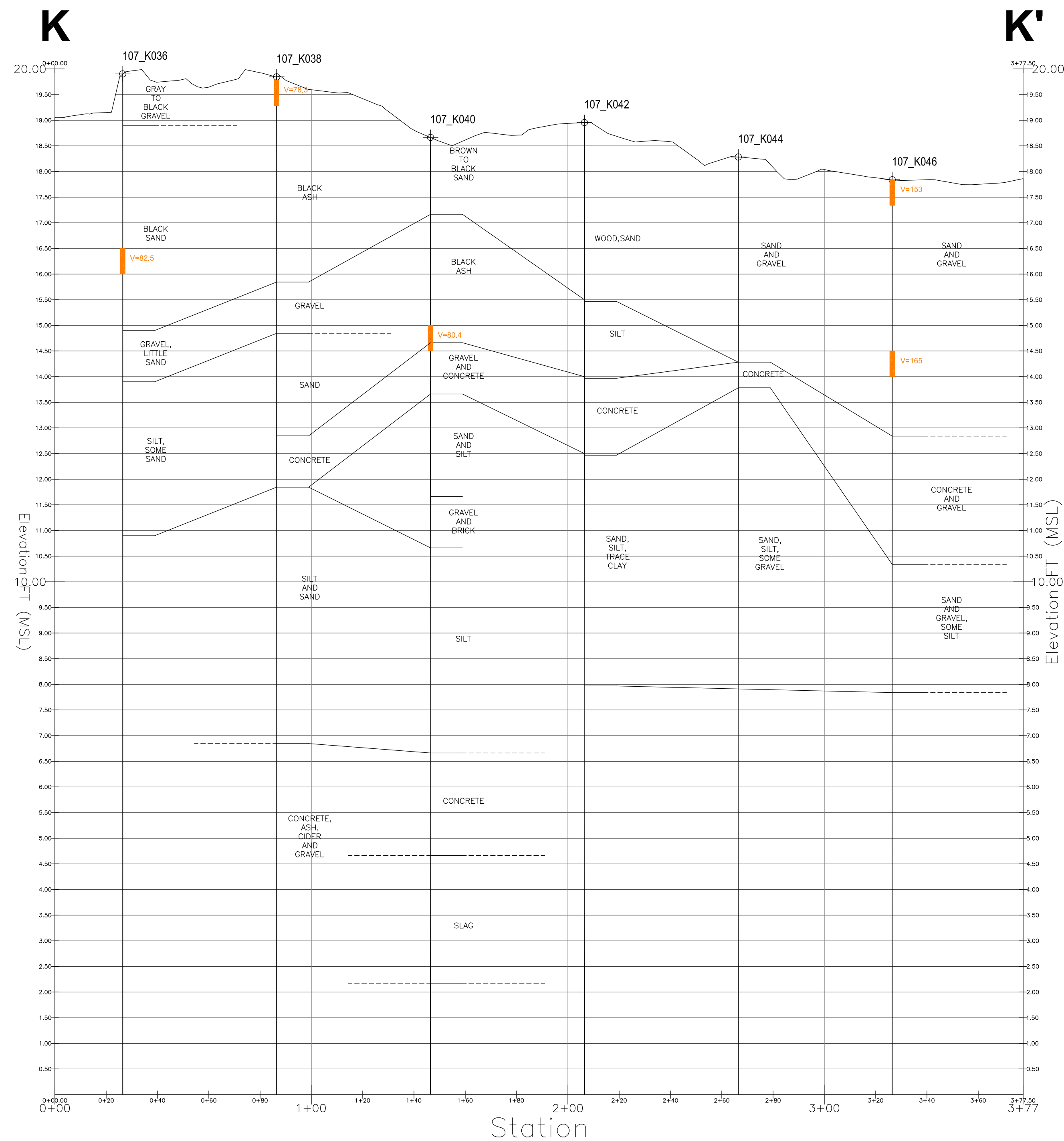
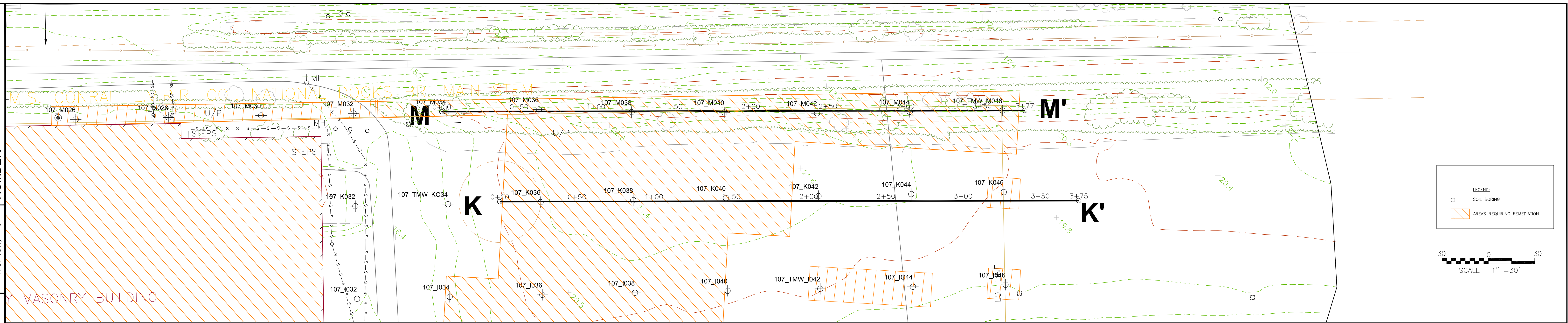


REFERENCE:
BOUNDARY & TOPOGRAPHIC SURVEY
DRAWING BY DRESDEN ROBIN JOB No. 10236-01



DESIGNED BY:	PPG INDUSTRIES HUDSON COUNTY, NEW JERSEY			
DRAWN BY:	FIGURE 1 SITE 107 SOIL BORING PLAN AND CROSS-SECTIONS 18 CHAPEL AVENUE JERSEY CITY, NEW JERSEY			
CHECKED BY:	W.M.	DATE:	2/7/13	REV. NO.:
APPROVED BY:	W.M.	SCALE:	AS SHOWN	DRAWING NO.:
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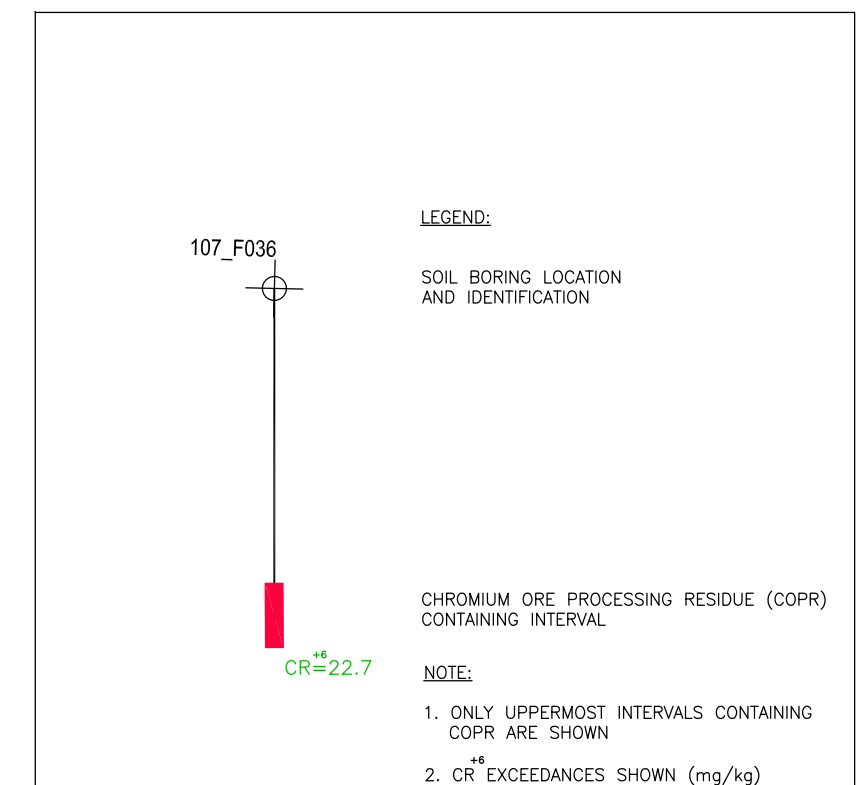
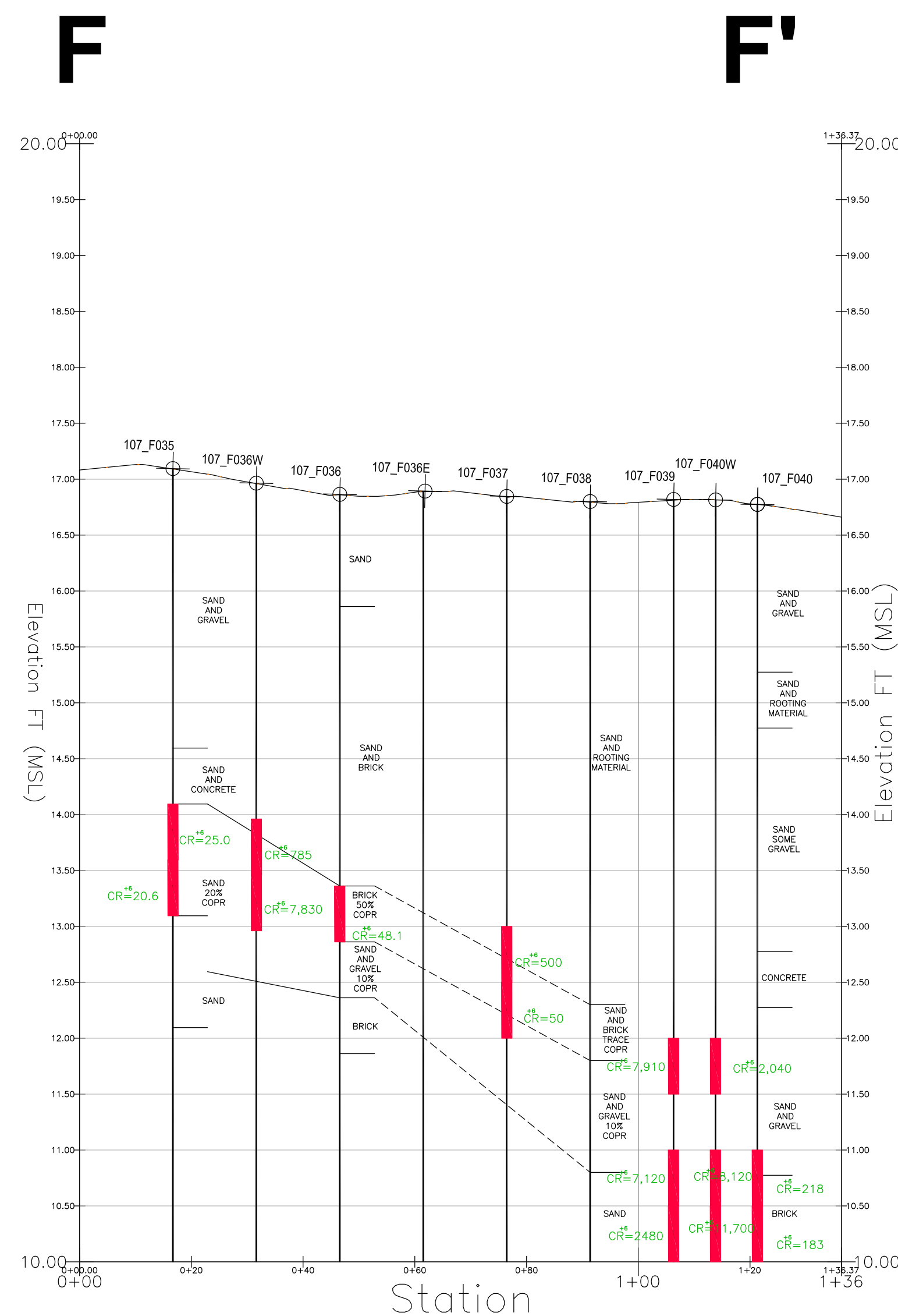
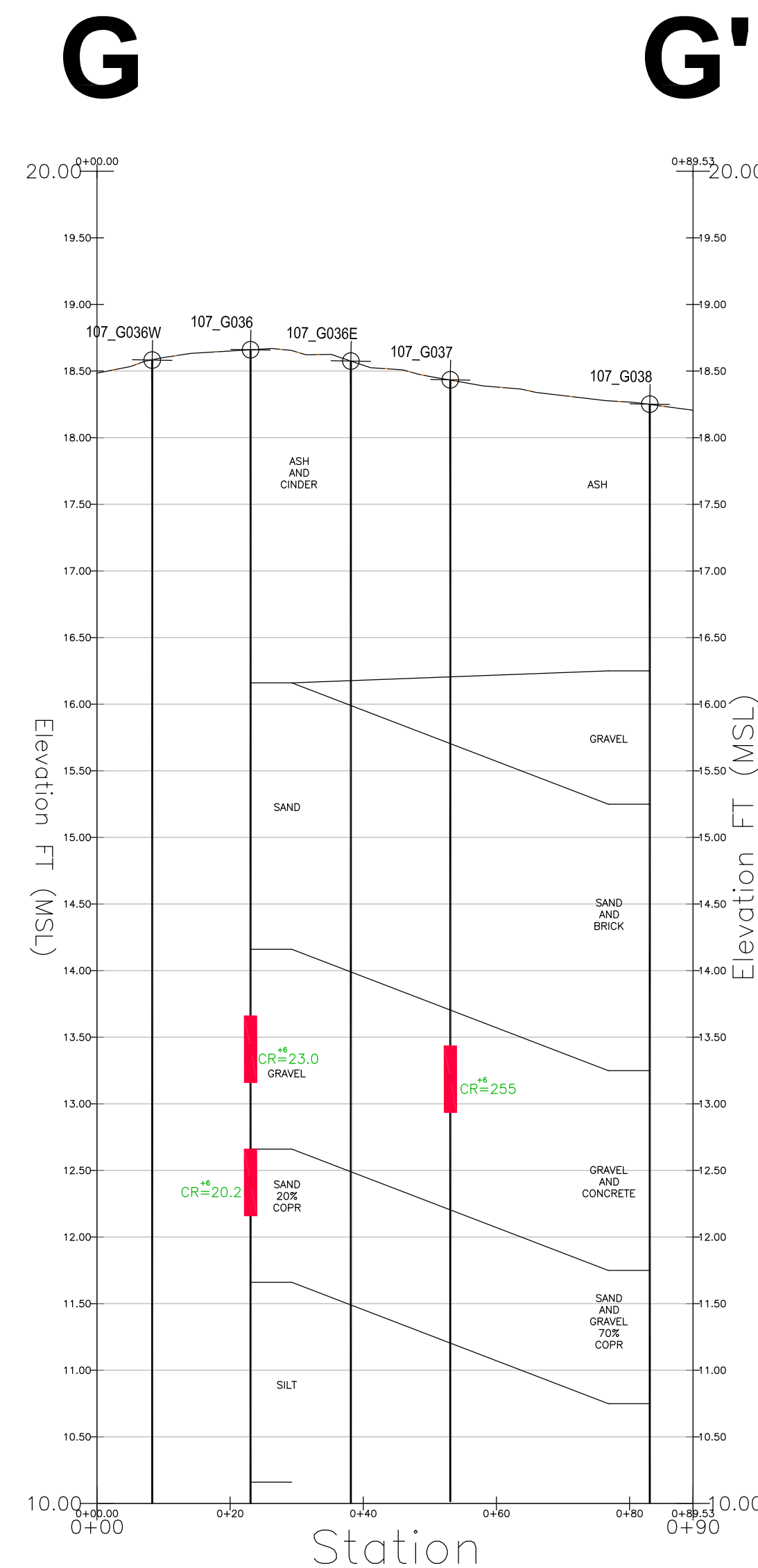
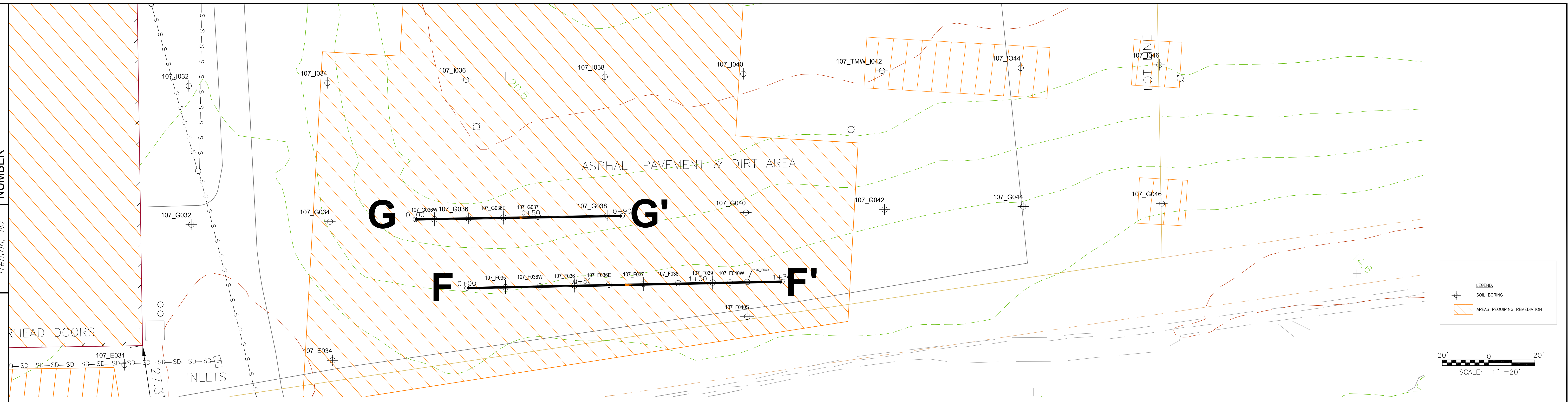
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 BOUNDARY & TOPOGRAPHIC SURVEY
 DRAWING BY DRESDEN ROBIN JOB No. 10236-01

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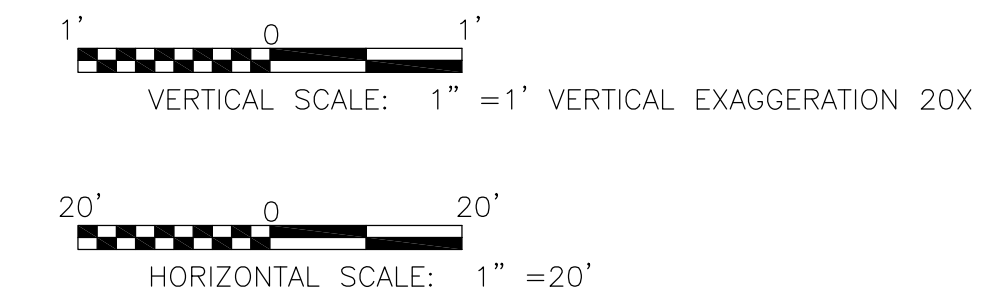
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 Plotted By: andersonm

DESIGNED BY:	PPG INDUSTRIES HUDSON COUNTY, NEW JERSEY			
DRAWN BY:	FIGURE 2 SITE 107			
CHECKED BY:	SOIL BORING PLAN AND CROSS-SECTIONS 18 CHAPEL AVENUE JERSEY CITY, NEW JERSEY			
APPROVED BY:	DATE:	SCALE:	DRAWING NO.	REV. NO.
W.M.	2/7/13	AS SHOWN	146429-D1	-



REFERENCE:
BOUNDARY & TOPOGRAPHIC SURVEY
DRAWING BY DRESSEN ROBIN JOB No. 10236-01



DESIGNED BY:	PPG INDUSTRIES HUDSON COUNTY, NEW JERSEY				
DRAWN BY:	FIGURE 3 SITE 107 SOIL BORING PLAN AND CROSS-SECTIONS 18 CHAPEL AVENUE JERSEY CITY, NEW JERSEY				
CHECKED BY:	W.M.	DATE:	2/7/13	SCALE:	AS SHOWN
APPROVED BY:	W.M.	DATE:	2/7/13	DRAWING NO.:	146429-D1
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ATTACHMENT TWO

BORING LOGS FROM THE VANADIUM-ONLY EXCEEDANCE AREA

Soil Boring/Well Details: 107_M036

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 11.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M036-0.0				1		Black SHINGLE, little Sand and Gravel, trace Silt, trace Glass, trace Ash.			
		30	0.0	2					
				3					
M036-3.5				4					
				5			Brown f SAND, some Gravel and Ash, little Silt, trace Brick, trace Concrete.		
				6					
				7			Brown mf SAND, some Gravel, little Concrete, trace Silt, trace Wood.		
M036-7.5		32	0.0	8			Gray-brown to orange-brown SILT, little f Sand, trace Gravel, trace Clay, mottled.		
M036-8.5				9					
				10			Red-brown f SAND, little Gravel, little Silt, little dark brown Gravel, trace Wood.		
				11			Red-brown SILT, little Gravel, little Sand.		
				12			Red-brown f SAND, some clayey Silt, little Gravel, trace mf black Sand.	WET	
M036-12.5		42	0.0	13					
				14			Blue-gray silty CLAY, trace f Sand.		
				15					




Drilling Company: EMC, Inc. Driller: Ryan Zajak Drilling Method: Geoprobe Auger Size: NA Hole Diameter:	DRESDNER ROBIN 371 Warren Street P.O. Box 38 Jersey City, NJ 07302	Casing Diameter: NA Date Start: 2/9/2011 Date Finish: 2/9/2011 Checked By: GG Sheet 1 of 2
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Soil Boring/Well Details: 107_M036

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 11.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)					
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description				Formation				
M036-16.5		28	0.0	16		Gray f SAND, some Silt.	MOIST							
				17		Red-brown f SAND, some Silt, little Gravel.								
				18										
				19										
				20										
				21		Red-brown SILT, some Gravel, little f Sand.								
				22		Red-brown SILT, little Gravel, little brown f Sand, mottled.								
				23		Red-brown f SAND, some Gravel, little Clayey Silt.								
				24		END OF BORING								
				25										
26														
27														
28														
29														
30														

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/9/2011
Date Finish: 2/9/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_M038

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 10.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)		
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description					
M038-0.0		28	0.0	1		Black SHINGLE, little Sand, trace Ash, trace Gravel, trace Silt.					
				2							
				3							
M038-3.5				4							Brown f SAND, some Silt, little Gravel, trace Concrete, trace Brick.
				5							Gray f SAND, some Silt, little Brick and Gravel.
				6							CONCRETE.
				7							Brown to red-brown f SAND, some Silt, little Gravel, trace Ash.
M038-8.0				8							
				9							Red-brown f SAND, some Silt and Gravel, trace gray/brown Silt.
				10							Red-brown f SAND, some Silt, little Gravel.
M038-12.0				12							
				13							
				14							
				15							Red-brown f SAND, some Silt, little Gravel, little organic Peat.

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

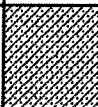


Casing Diameter: NA
Date Start: 2/9/2011
Date Finish: 2/9/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_M038

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 10.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)							
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description				Formation						
M038-16.0		48	0.0	16		Gray clayey SILT, little gray f Sand, trace f black Sand, trace Peat.		MOIST								
				17		Gray/brown silty CLAY, trace f Sand, trace red-brown Silt.										
				18		Light gray f SAND, some Silt, little brown Silt, mottled.										
				19		Red-brown GRAVEL, some mf Sand, little Silt.										
				20						Red-brown SILT, some Gravel, little Sand, trace brown Silt.						
				21												
				22		32				0.0	22		Red-brown GRAVEL, little Sand, trace Silt.			
				23							7		END OF BORING			
				24												
				25												
26	8															
27																
28																
29																
30	9															

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 2/9/2011
 Date Finish: 2/9/2011
 Checked By: GG
 Sheet: 2 of 2

Soil Boring/Well Details: 107_M040

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 19.5

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)				
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation			
M040-0.0	34	0.0	0.0	1		Black SHINGLE, little Sand, trace Gravel, trace Silt, trace Ash, trace Plastic.							
M040-3.5				4		Brown f SAND, some Gravel, little Silt, trace Concrete.							
M040-7.5				5		Brown mf SAND, some Gravel, little Silt, trace Ash, trace Wood.							
				6		Brown SILT, little f Sand, little Gravel, trace Ash, trace Brick, trace Clay.							
M040-8.5				7		31				0.0	8		Red-brown SILT, little f Sand, trace Gravel, gray to gray-brown clayey Silt, trace Sand.
				9							Gray brown silty CLAY, little f Sand.		
				10		3							
				11									

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/9/2011
Date Finish: 2/9/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_M040

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 19.5

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
M040-12.5		51	0.0	12		Dark-brown silty CLAY, little f gray Sand lenses.			
				13					
M040-16.5		48	0.0	14		Light-gray f SAND, some gray/brown clayey Silt.			
				15					
				16		Light-gray f SAND, some orange-brown and yellow-brown clayey Silt, mottled.			
				17					
				18		Red-brown GRAVEL, little Sand, trace Silt.		MOIST	
				19					
				20		END OF BORING			
				21					
				22					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/9/2011
Date Finish: 2/9/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_M042

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 20.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M042-0.0		34	0.0	1		Black SHINGLE, some f Sand, little Gravel and Ash, trace Silt.			
M042-3.5				4		Brown f SAND, some Silt, little Gravel, trace Brick. Red BRICK.			
M042-7.5				5					
M042-8.5	6	Brown f SAND, some Silt, trace Gravel, trace Brick, trace Concrete.							
	7	Red-brown SILT, little f Sand, trace Gravel.							
	8	Red-brown f SAND, some Silt, some Gravel, trace Ash.							
	9	Red-brown f SAND, some Silt, little Gravel and brown Silt.							
	10								
	11	Gray/brown clayey SILT, little f Sand, little black Gravel, trace Shells.							
	12								
M042-12.5	32	0.0	13						

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/9/2011
Date Finish: 2/9/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_M042

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 20.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
				4					
				14				MOIST	
				15		Yellow-brown to yellow-gray silty CLAY, little blue-gray f Sand, trace Gravel, trace black organics.			
				16					
M042-16.5				5					
		48	0.0	17		Blue-gray f SAND, some Silt, little red and yellow clayey Silt, mottled.			
				18		Red-brown f SAND, some Gravel, little Silt, little yellow-brown Silt.			
				19					
				20		Red-brown GRAVEL, some f Sand, trace Silt.			
				21					
		18	0.0	22				WET	
				23					
				7					
				24		END OF BORING			
				25					
				26					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

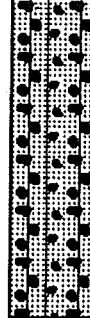

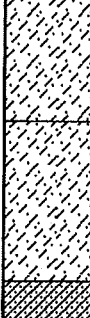

Casing Diameter: NA
Date Start: 2/9/2011
Date Finish: 2/9/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_M044

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 11.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)	
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation
M044-0.0		30	0.0	1		Black mf SAND, some Ash and Cinder, little Shingle, trace Glass, trace Wood.				
				2						
				3						
				4						
M044-3.5				4		CONCRETE.				
				5		Brown f SAND, some Silt, little Gravel, trace Concrete, trace Brick.				
				6						
				7						
				8						
M044-7.5		43	0.0	8		Red-brown f SAND, some Silt, trace Gravel, trace Ash.				
				9		Red-brown f SAND, some Silt, some Gravel, trace brown Silt.				
				10						
				11						
M044-11.5				11		Brown f SAND, some Silt, little Gravel, trace Organic.		MOIST		
				12				WET		
		56	0.0	12		Gray/brown silty CLAY, trace Gravel, f Sand, trace Shell Fragments.				
				13						
				14						

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
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Casing Diameter: NA
Date Start: 2/9/2011
Date Finish: 2/9/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_M044

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 11.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
M044-15.5		48	0.0	15		Yellow-brown to red-brown to gray mottled CLAY.			
				16					
				17					
				18					
				19					
				20					
				21					
				22					
				23					
				24					
				25		END OF BORING			
				26					
				27					
				28					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/9/2011
Date Finish: 2/9/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_TMW_M046

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 21.0

Water Level: 20.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		35	0.0	1		Black ASH and CINDER, little Sand, trace Silt, trace Concrete, trace Glass.			
				2					
				3					
				4					
				5			Brown f SAND, some Silt and Gravel, little Brick, trace Concrete.		
				6			Brown f SAND, some Silt, little Gravel, trace Silt, trace Brick.		
				7					
		40	0.0	8			Brown f SAND, some Gravel, little Silt.		
				9			Black ASH and CINDER, little Sand, trace Silt.		
				10			Brown f SAND, some Gravel, trace Silt.		
				11			Red-brown f SAND and SILT, some Gravel.		
				12			Brown SILT, little dark Clay lenses, trace Sand, trace Shell Fragments.		

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

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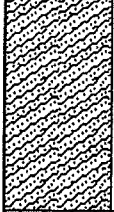
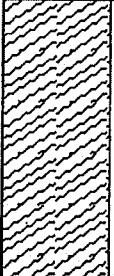

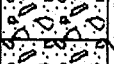
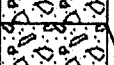
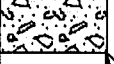
Casing Diameter: NA
Date Start: 2/9/2011
Date Finish: 2/9/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_TMW_M046

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 21.0

Water Level: 20.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		54	0.0	13 - 4		Brown of SAND, little Gravel, trace Silt.			
				14 - 4		Brown SILT, little f Sand, trace-little Organics, trace Gravel.			
				15 - 5		Brown clayey SILT, trace f Sand, trace Peat.		MOIST	
		44	0.0	16 - 5		Brown silty CLAY, trace f Sand.			
				17 - 5					
				18 - 5					
				19 - 5					
				20 - 6		Red-brown GRAVEL, little f Sand, trace Silt.			
				21 - 6		Brown GRAVEL, little Sand, trace Silt.		WET	
		12	0.0	20 - 6		Red-brown Gravel, little Sand, little Silt.			
				21 - 6		END OF BORING			
				22 - 7					
				23 - 7					
				24 - 7					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
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Casing Diameter: NA
Date Start: 2/9/2011
Date Finish: 2/9/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107-K036

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677137.9313
Easting: 606805.6084
Elevation: 0
Total Depth: 11.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
K036-0.0		36	0.0	1		Gray to black GRAVEL, little Sand.			
				2		Black of SAND, little Silt, little Gravel, Ash and Cinder, trace Concrete, trace Brick.			
				3					
K036-3.5				4					
				5					
				6					
				7					
K036-7.5				8					
				9					
				10					
				11					
	12								
	13								
	14								

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
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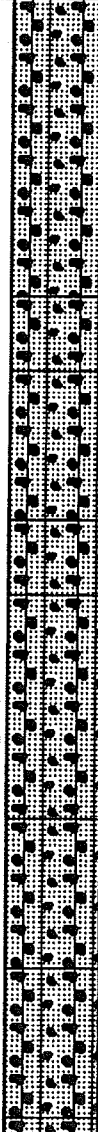
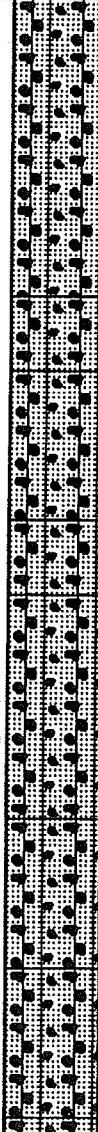
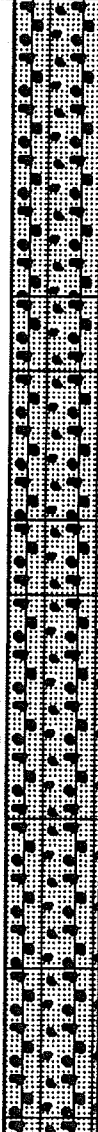
Casing Diameter: NA
Date Start: 1/25/2011
Date Finish: 1/25/2011
Checked By: GG
Sheet 1 of 1

Soil Boring/Well Details: 107_K038

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 25.0

Water Level: 15.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
K038-0.0	53			1		Black ASH, little Sand, trace Silt.			
				2					
				3					
				4					
K038-3.5	45			5		Gray/brown GRAVEL, little Sand and Silt, trace Concrete.			
				6		Brown f SAND, some Gravel, little Silt, trace Brick.			
				7					
				8		CONCRETE and red BRICK, little Sand and Silt.			
				9		Red-brown SILT, little Sand.			
				10					
				11					
K038-7.5	32			12		Brown f SAND and SILT, some Gravel, trace Concrete.		MOIST	
				13					
				14					
				15					
K038-11.5						CONCRETE, little Sand, trace Silt.			

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

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Casing Diameter: NA
Date Start: 1/26/2011
Date Finish: 1/26/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_K038

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 25.0

Water Level: 15.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
K038-15.5				16		ASH, CINDER and GRAVEL, little Sand, trace Silt, trace Clay.		WET	
K038-16.5				17					
		42		18		Brown silty CLAY, trace f Sand, trace Peat.			
				19					
				20		Yellow-brown SILT, little f Sand, trace Clay.		MOIST	
K038-20.5				21					
				22		Orange-brown SILT, little Clay, little f Sand.			
				23					
		44		24		Red-brown of Sand, little Silt, trace Gravel.		WET	
K038-24.5				25					
				26		END OF BORING.			
				27					
				28					
				29					
				30					

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
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 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 1/26/2011
 Date Finish: 1/26/2011
 Checked By: GG
 Sheet: 2 of 2

Soil Boring/Well Details: 107_K040

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 14.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
K040-0.0		48		1		Dark brown to black mf SAND, some Gravel, little Silt, trace Glass, trace Concrete.			
				2		Black ASH, little Silt, trace Sand, trace Gravel.			
				3					
K040-3.5				4		GARVEL and CONCRETE, little Sand.			
	5	Brown f SAND and SILT, trace Gravel.							
	6								
	7	GRAVEL and BRICK, little Sand.							
K040-7.5	8	Red-brown SILT, little f Sand.							
	9								
	10	Red-brown SILT, little f Sand, trace Gravel.							
	11								
K040-11.5	12	CONCRETE.							
	13								
	14	HISTORIC FILL, Slag.							
	15								

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 1/26/2011
Date Finish: 1/26/2011
Checked By: GG
Sheet 1 of 2

Soil Boring/Well Details: 107_K040

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 14.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
				16					
K040-16.0				5					
		30		17		Gray/brown silty CLAY.			
				18			MOIST		
				19					
				6		Yellow/brown SILT, little Clay, trace Sand, mottled.			
K040-20.0				20		Red-brown f SAND and SILT.			
				21		Red-brown f SAND, some Gravel, little Silt.			
		48		22		Red-brown mf SAND, little Silt, trace Gravel.	WET		
				7					
				23					
K040-24.0				24		END OF BORING.			
				25					
				26					
				8					
				27					
				28					
				29					
				9					
				30					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

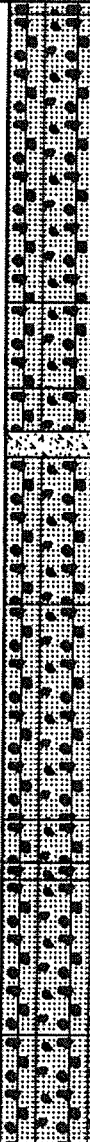
Casing Diameter: NA
Date Start: 1/26/2011
Date Finish: 1/26/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_K042

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By:

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
K042-0.0		60	0.0	0		WOOD.			
				1		Black gravelly SAND, Cinder, little Silt			
				2					
				3					
K042-3.5				4		Pale brown SILT, fm Sand mixed with Brick.			
				5		Brown-green SILT, fm Sand mixed with Brick.			
				6		CONCRETE.			
				7		Tan silty SAND, trace Clay.			
				8		Pale red SILT, little Clay.			
K042-7.5				9					
				10		Pale red SILT, fm Sand.			
				11		Black GRAVEL and f SAND.			
				12		Brown SILT, little Clay.			
K042-11.5	13	Grey CLAY.							

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 01/28/2011
Date Finish: 01/28/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_K042

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Eastng: 0
Elevation: 0
Total Depth: 24.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By:

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
				4					
				14		Grey CLAY, trace Plastic, Gravel.			
K042-15.0				15		FILL.			
				16		Brown clayey cf SAND, trace Silt.			
		55	0.0	17	5	Brown CLAY.		MOIST	
				18		Yellow-brown CLAY.			
K042-19.0				19		Green/orange SILT, little Clay.			
				20	6	Orange/brown gravelly SAND.			
		55	0.0	21					
				22					
K042-23.0				23	7	Orange/red CLAY and c SAND.			
				24		Orange/brown CLAY.		SATURATED	
				25		END OF BORING			
				26					

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

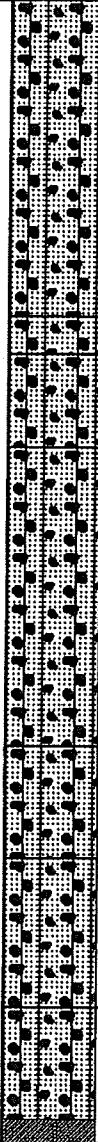
Casing Diameter: NA
 Date Start: 01/28/2011
 Date Finish: 01/28/2011
 Checked By: GG
 Sheet: 2 of 2

Soil Boring/Well Details: 107_K044

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 25.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)		
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation	
K044-0.0		5.6	0.0	1		Black of SAND and GRAVEL, some Silt and Cinder, little Rubber, trace Glass, Metal and Wood.					
				2							
				3		1					
K044-3.5				4		0.0				CONCRETE.	
				5						Brown of SAND, some Silt and Gravel, trace Brick.	
				6						Red/brown silty SAND, little Gravel, trace Brick.	
				7		2					
K044-7.5				8		42				0.0	
				9							
				10		3				Black of SAND, some Silt and Gravel.	
				11							
K044-11.5				12		18				0.0	GRAVEL and CONCRETE.
				13		4					
K044-14.5				14						Dark brown silty SAND, some Gravel and Cinder.	
				15							

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 1/31/2011
Date Finish: 1/31/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_K044

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 25.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
				16	5	Brown SILT.		MOIST	
		60	0.0	17			Gray/orange/brown (mottled) silty CLAY.		
K044-18.5				18					
				19					
				20	6	Brown/red of SAND and GRAVEL, some Silt.			
		46	0.0	21					MOIST
K044-22.5				22					
				23	7				
				24					
				25		END OF BORING			
				26	8				
				27					
				28					
				29	9				
				30					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 1/31/2011
Date Finish: 1/31/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_K046

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 25.0

Water Level: 12.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
K046-0.0				1		Black of SAND and GRAVEL, some Silt and Cinder, little Rubber, trace Glass and Wood.			
		36	0.0	2					
				3					
K046-3.5				4					
				5			CONCRETE and GRAVEL.		
				6					
		10	0.0	7					
				8			Brown of SAND and GRAVEL, some Silt.		
				9					
				10			WOOD.		
				11			Black of SAND and GRAVEL, some Silt, little Wood.	MOIST	
K046-11.5				12			Brown silty SAND and GRAVEL.		
		46	0.0	13			Brown SILT, little Gravel.	WET	
				14					
				15			Brown silty SAND.		

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 1/31/2011
Date Finish: 1/31/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_K046

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 25.0

Water Level: 12.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
K046-15.5				16		Brown SILT.			
		60	0.0	17		Brown SILT, little Clay (stiff).			
K046-19.5				20		Gray/brown mottled silty CLAY (stiff), little f Sand.			
				21		Red-brown GRAVEL, some of Sand, little Silt.			
		28	0.0	22					
				23					
				24					
				25		END OF BORING			
				26					
				27					
				28					
				29					
				30					

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 1/31/2011
 Date Finish: 1/31/2011
 Checked By: GG
 Sheet: 2 of 2

ATTACHMENT THREE




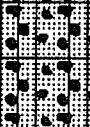




BORING LOGS FROM THE CCPW FILL AREA

Soil Boring/Well Details: 107_F035

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 5.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		39	0.0	1		ASPHALT.			
				1		Dark-brown of SAND and GRAVEL, some Silt, trace Brick and Cinder.			
				2		Brown of SAND, some Silt, little Gravel, trace Brick, Glass, Cinder, Concrete, Wood.			
				3		Brown of SAND and CONCRETE, some Silt and Gravel, trace Brick, Glass, Cinder, Wood.	20% COPR		
				4		Reddish-brown mf SAND, some Gravel and Silt.	trace COPR		
				5		CONCRETE.			
				5		Brown mf SAND, some Silt, trace Gravel.			
				5		END OF BORING			
				6					
				7					
				8					
				9					
				10					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 08/16/2011
Date Finish: 08/16/2011
Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_F036

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By:

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
			3.3	1		Black of SAND, some black Rooting material and Silt, trace Brick and Cinder.			
			63.6	2		Brown of SAND and BRICK, some Silt, little Concrete, trace Cinder and heavy black Plastic.			
	51		2.2	3					
			15.8	4		BRICK.		50% COPR	
			5.0	5		Brown of SAND and GRAVEL, some Silt, trace Brick, Wood, Concrete.		20% COPR	
				6		WOOD and brown of SAND, little Gravel, trace Brick.		10% COPR	
				7		Brown of SAND and CONCRETE, some Silt, little Gravel, trace Brick.			
	60		0.0	8		Brown of SAND, some Gravel and Silt, trace Brick and Concrete.			
				9		Brown mf SAND, some brown c Sand and Silt, little Gravel, trace Concrete.			
				10		END OF BORING			
				11					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 6/7/2011
Date Finish: 6/7/2011
Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_F037

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 7.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		56/84	0.0	1	[Symbol: Dotted pattern]	ASPHALT. ROOTING MATERIAL, dark-brown of Sand, some Gravel and Silt, trace Cinder.			
				2	[Symbol: Dotted pattern]	Brown of SAND and GRAVEL, some Silt, trace Brick, Cinder, Concrete, Glass.			
				3	[Symbol: Dotted pattern]				
				4	[Symbol: Dotted pattern]	CONCRETE.			
				5	[Symbol: Dotted pattern]	Red BRICK.	20% COPR		
				6	[Symbol: Dotted pattern]	Brown of SAND, some Silt and Gravel, trace Glass, Brick and Cinder.	10% COPR		
				7	[Symbol: Dotted pattern]	Red BRICK, some Concrete, little brown of Sand, trace Gravel and Silt.			
				8	[Symbol: Dotted pattern]	Brown of SAND, some Silt, little Gravel, trace Brick and Cinder, trace Wood and Metal (nail).			
				9	[Symbol: Dotted pattern]	END OF BORING			
				10	[Symbol: Dotted pattern]				

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 08/16/2011
Date Finish: 08/16/2011
Checked By: GG
Sheet 1 of 1

Soil Boring/Well Details: 107_F038

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By:

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
			112.6	1		Black of SAND and black ROOTING MATERIAL, some Gravel and Silt, trace Brick and Cinder.			
			57.8	2					
		53	> 15,000	3		Brown of SAND, some Gravel and Silt, trace Brick, Concrete and Cinder.			
			28.7	4					
			1040	5		Brown of SAND and BRICK, some Silt, little Gravel, trace Cinder and Wood.	trace COPR		
			0.0	6		Brown of SAND and GRAVEL, some Brick and Silt, little Wood.	10% COPR		
			8.9	7		Brown mf SAND, some Silt, little Gravel.			
		19	11.0	8					
			59.4	9					
			36.6	10					
				11		END OF BORING			

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 06/07/2011
Date Finish: 06/07/2011
Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_F040S

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By:

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (Inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
			24.8	1	[Symbol: Sand/Gravel]	Dark-brown of SAND and GRAVEL, little Asphalt and Silt, trace Cinder.			
		>	15,000	2	[Symbol: Sand/Gravel]	Dark-brown of SAND, little black Rooting Material, trace Plastic, Cinder, Brick.			
		53.5	54.6	3	[Symbol: Sand/Gravel]	Dark-brown of SAND, some Gravel and Silt, trace Concrete, Brick, Cinder and Metal.			
			6.7	4	[Symbol: Sand/Gravel]				
			1.2	5	[Symbol: Concrete]	CONCRETE.			
			>	6	[Symbol: Sand/Gravel]	Brown of SAND and GRAVEL, some Silt, trace Concrete.			
			15,000	7	[Symbol: Sand/Gravel]	Brown of SAND, some Gravel and Silt, trace Wood, Brick and Glass.			
			1,437	8	[Symbol: Sand/Gravel]	Red BRICK, trace Wood, Concrete.			
		37.5	15.4	9	[Symbol: Sand/Gravel]	Dark-brown SILT and BRICK, some Wood and Glass, trace Cinder.			
			21.4	10	[Symbol: Sand/Gravel]	Black of SAND, some Gravel and Silt, trace Seashell, Brick, Cinder and Concrete.			
			7.0	11	[Symbol: End of Boring]	END OF BORING			

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

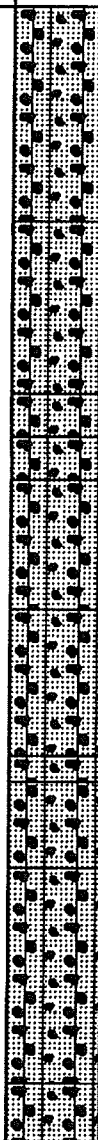
Casing Diameter: NA
Date Start: 06/08/2011
Date Finish: 06/08/2011
Checked By: GG
Sheet 1 of 1

Soil Boring/Well Details: 107-G036

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 14.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By:

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
G036-0.0		36	0.0	1		Black ASH and CINDER, some Sand, trace Silt, trace Glass, trace Plastic.			
				2		Brown f SAND, some Silt, little Gravel, trace Silt.			
				3					
				4					
G036-5.0				5		Brown to red-brown Gravel, little Brick, little Sand, trace Silt.			
				6		Brown mf SAND, some Gravel, little Silt.			
G036-6.0				7		Red-brown f SAND, some Silt, little Gravel.			
				8		Red-brown SILT, little f Sand, trace Gravel.			
				9		CONCRETE.			
G036-7.0				10		Red-brown to brown SILT, little f Sand, trace Gravel, moist.			
				11					
				12					
				13					
	28	0.0							

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 1/25/2011
Date Finish: 1/25/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107-G036

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 14.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By:

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
				4		Black ASH, CINDER and GRAVEL, little Sand, trace Silt, wet.			
			0.2	14					
			0.4	15			WOOD, wet.		
G036-15.0				15		WOOD.			
			0.3	16			Gray-brown silty CLAY, trace f Sand.		
				5					
		30	0.8	17					
			0.3	18					
				19					
G036-19.0				19					
				6			Green-gray clayey SILT, trace f Sand, trace Gravel.		
				20					
				21					
		48		22			Brown-gray GRAVEL, little f Sand, trace Silt, wet.		
				7					
G036-23.0				23			Brown f SAND, some Silt, trace Clay, trace Gravel, wet.		
				24		End of Soil Boring @ 24.0 feet			
				25					
				26					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 1/25/2011
Date Finish: 1/25/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_G038

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 16.0

Water Level: 14.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By:

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
G038-0.0		38		1		Black ASH, little Gravel, little Sand, trace Silt.			
				2		Red-brown GRAVEL, little Sand, trace Silt.			
				3		Gray f SAND and red BRICK, little Silt, little Gravel, trace Wood.			
				4					
G038-4.5				5		Gray GRAVEL and CONCRETE, some Sand, little Ash and Cinder, trace Silt, trace Brick.			
G038-6.0	6	Brown of SAND and GRAVEL, trace Silt.							
	7								
G038-7.0	7		Red BRICK.						
	8	Brown SILT, little f Sand, trace gray Silt.							
	9	Brown SILT, little f Sand, trace Gravel, moist.							
	10								
	11								
	12								

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start:
Date Finish:
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_G038

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 16.0

Water Level: 14.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By:

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		24		13					
				14		Black of SAND, some Ash and Cinder, trace Silt, trace Clay, trace Gravel, wet.		Second attempt refused	
				15		WOOD.			
				16		End of Soil Boring @ 16.0 feet.		Third attempt refused, will log and sample	
				17					
				18					
				19					
				20					
				21					
				22					
				23					
				24					

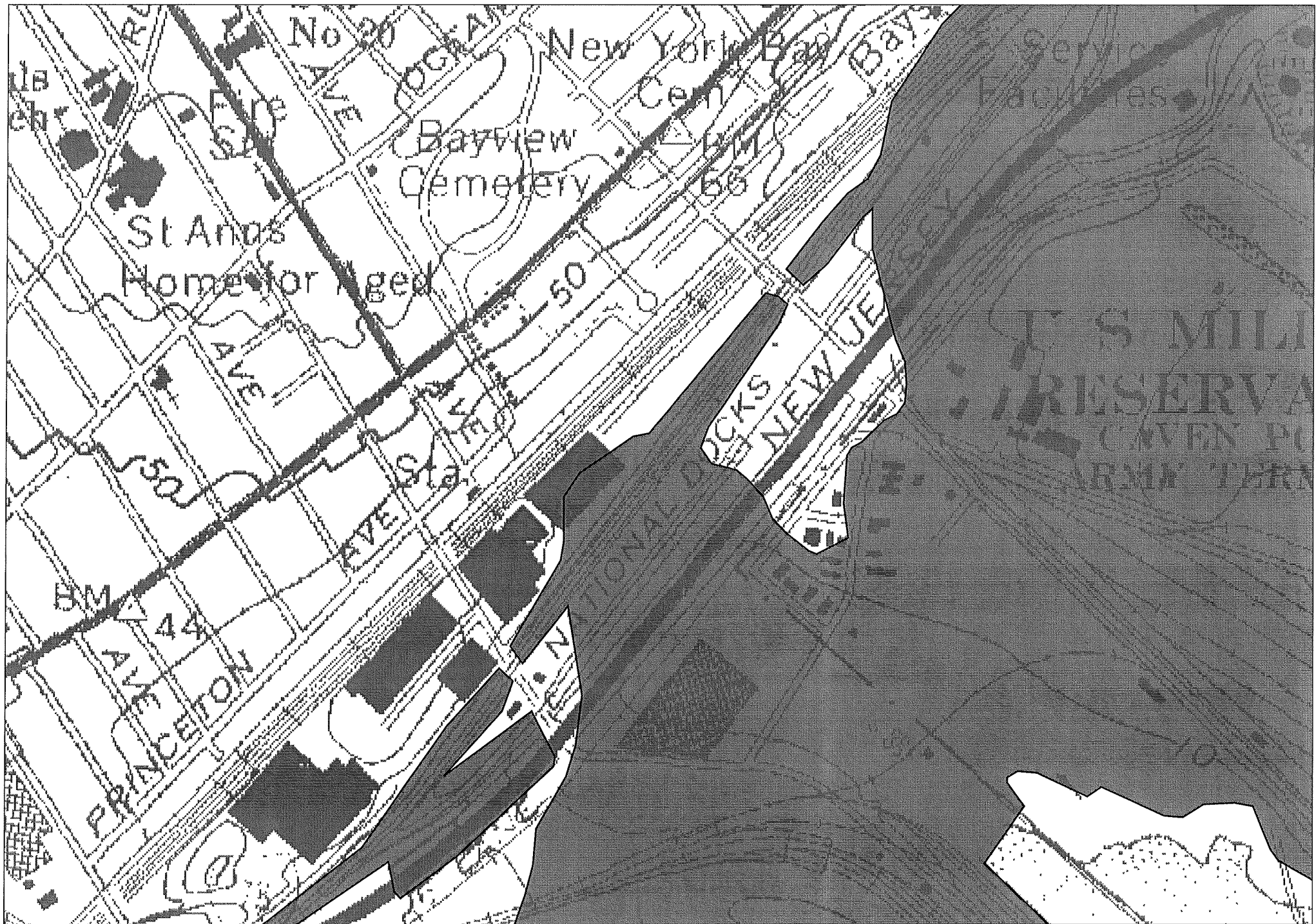
Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start:
Date Finish:
Checked By: GG
Sheet: 2 of 2

ATTACHMENT FOUR

PORTION OF THE NJGS HISTORIC FILL MAP SHOWING SITE 107



ATTACHMENT FIVE

HISTORIC AERIAL PHOTOGRAPHS AND TOPOGRAPHIC MAPS



Follow us on twitter!

HOME DISCUSSIONS EXAMPLES CONTACT ACCOUNT

18 chapel avenue, jersey city, nj

Overlays (Off) Compare (Off) Survey Share

Aerials

- 2008
- 2006
- 2002
- 1995
- 1987
- 1979
- 1966
- 1954
- 1931

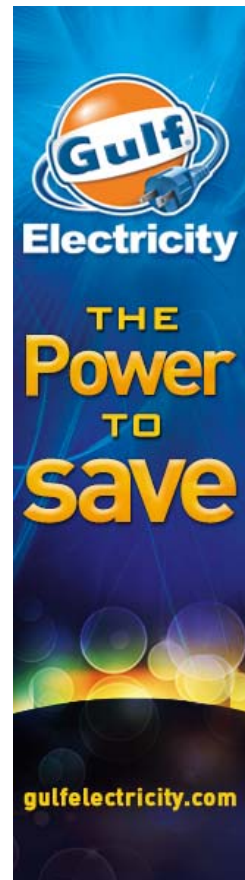
Topos

- T1982
- T1969
- T1964
- T1958
- T1947

1:52 ft.



Montgomery, Maryland (2006)



NEW ADDITIONS

- | | |
|-----------------------------|----------------------------------|
| Holmes, Mississippi (1960) | Fayette, Tennessee (1963) |
| Hinds, Mississippi (1963) | Jackson, Tennessee (1963) |
| Forrest, Mississippi (1960) | Monroe, Mississippi (1960) |
| Amite, Mississippi (1962) | Wayne, Pennsylvania (1966) |
| Winston, Mississippi (1960) | East Feliciana, Louisiana (1952) |

DISCUSSIONS

- 50s/60s aerials are better quality than the 90s!
- Untitled
- Oldest photos?
- Change in quality of aerials c. 2002?
- Not working....

In partnership with:



POINTS OF INTEREST..

V s ruwp dq *# \$dun #E# xvEk #/ wdg bcp /# /v#Dxx lv /# R #p

J rugrq #K d a#P dqv lr q #p



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Montgomery, Maryland (2006)

HOME DISCUSSIONS EXAMPLES CONTACT ACCOUNT

18 chapel avenue, jersey city, nj

Overlays (Off) Compare (Off) Survey Share

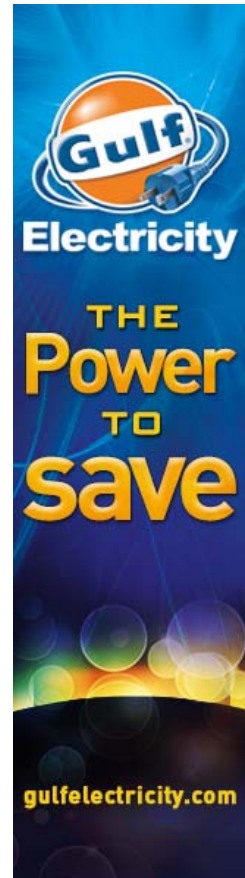
Aerials

- 2008
- 2006
- 2002
- 1995
- 1987
- 1979
- 1966
- 1954
- 1931

Topos

- T1982
- T1969
- T1964
- T1958
- T1947

1:52 ft.



NEW ADDITIONS

- | | |
|-----------------------------|----------------------------------|
| Holmes, Mississippi (1960) | Fayette, Tennessee (1963) |
| Hinds, Mississippi (1963) | Jackson, Tennessee (1963) |
| Forrest, Mississippi (1960) | Monroe, Mississippi (1960) |
| Amite, Mississippi (1962) | Wayne, Pennsylvania (1966) |
| Winston, Mississippi (1960) | East Feliciana, Louisiana (1952) |

DISCUSSIONS

- 50s/60s aerials are better quality than the 90s!
- Untitled
- Oldest photos?
- Change in quality of aerials c. 2002?
- Not working....

In partnership with:



POINTS OF INTEREST..

V s ruwp dq *# \$dun #E: xvEk #/ wdg bcp /# /v#Dxx lv/ #P R #p

J rugrq #K d a#P d qv i r q #p



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HOME DISCUSSIONS EXAMPLES CONTACT ACCOUNT

18 chapel avenue, jersey city, nj

Overlays (Off) Compare (Off) Survey Share

Aerials

- 2008
- 2006
- 2002
- 1995
- 1987
- 1979
- 1966
- 1954
- 1931

Topos

- T1982
- T1969
- T1964
- T1958
- T1947

1:52 ft.



Montgomery, Maryland (2006)



NEW ADDITIONS

- | | |
|-----------------------------|----------------------------------|
| Holmes, Mississippi (1960) | Fayette, Tennessee (1963) |
| Hinds, Mississippi (1963) | Jackson, Tennessee (1963) |
| Forrest, Mississippi (1960) | Monroe, Mississippi (1960) |
| Amite, Mississippi (1962) | Wayne, Pennsylvania (1966) |
| Winston, Mississippi (1960) | East Feliciana, Louisiana (1952) |

DISCUSSIONS

- 50s/60s aerials are better quality than the 90s!
- Untitled
- Oldest photos?
- Change in quality of aerials c. 2002?
- Not working....

In partnership with:



POINTS OF INTEREST..

V s ruwp dq *# \$dun #E: xvEk #/ wdg bcp /# / v#D r x lv /# R #p
J rugrq #K d a#P d qv i r q #p



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Montgomery, Maryland (2006)

HOME DISCUSSIONS EXAMPLES CONTACT ACCOUNT

18 chapel avenue, jersey city, nj

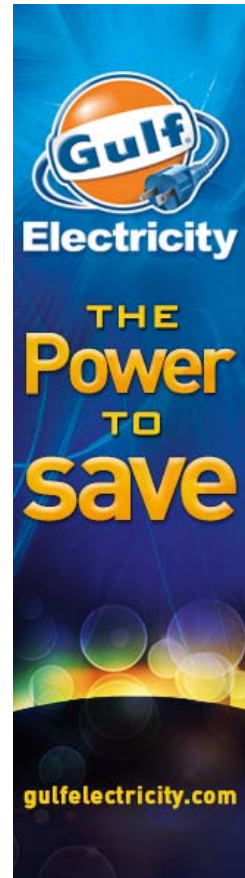
Overlays (Off) Compare (Off) Survey Share

Aerials

- 2008
- 2006
- 2002
- 1995
- 1987
- 1979
- 1966
- 1954
- 1931

Topos

- T1982
- T1969
- T1964
- T1958
- T1947



NEW ADDITIONS

- | | |
|-----------------------------|----------------------------------|
| Holmes, Mississippi (1960) | Fayette, Tennessee (1963) |
| Hinds, Mississippi (1963) | Jackson, Tennessee (1963) |
| Forrest, Mississippi (1960) | Monroe, Mississippi (1960) |
| Amite, Mississippi (1962) | Wayne, Pennsylvania (1966) |
| Winston, Mississippi (1960) | East Feliciana, Louisiana (1952) |

DISCUSSIONS

- 50s/60s aerials are better quality than the 90s!
- Untitled
- Oldest photos?
- Change in quality of aerials c. 2002?
- Not working....

In partnership with:



POINTS OF INTEREST..

V s ruwp dq *# \$dun #E: xvEk #/ wdg bcp /# /v#Dxx lv/ #P R #p
J rugrq #K d a#P dqv lr q #p



Fashionland

18 Chapel Avenue
Jersey City, NJ 07305

Inquiry Number: 3552923.5

March 21, 2013

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography March 21, 2013

Target Property:

18 Chapel Avenue
Jersey City, NJ 07305

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1933	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ; Flight Date: January 01, 1933	EDR
1943	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ; Flight Date: December 22, 1943	EDR
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ; Flight Date: January 04, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ; Flight Date: February 23, 1966	EDR
1985	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ; Flight Date: March 16, 1985	EDR
1995	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ; DOQQ - acquisition dates: March 29, 1995	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ; Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ; Flight Year: 2008	EDR
2010	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ; Flight Year: 2010	EDR



INQUIRY #: 3552923.5

YEAR: 1933

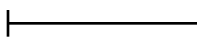
|—————| = 500'





INQUIRY #: 3552923.5

YEAR: 1943

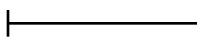
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INQUIRY #: 3552923.5

YEAR: 1954

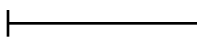
 = 500'





INQUIRY #: 3552923.5

YEAR: 1966

 = 500'





INQUIRY #: 3552923.5

YEAR: 1985

| = 500'



EDR Environmental Data Resources Inc.



INQUIRY #: 3552923.5

YEAR: 1995

| = 500'





INQUIRY #: 3552923.5

YEAR: 2006

Scale: 1" = 500'





INQUIRY #: 3552923.5

YEAR: 2008

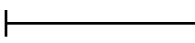
| = 500'





INQUIRY #: 3552923.5

YEAR: 2010

 = 500'





Fashionland

18 Chapel Avenue
Jersey City, NJ 07305

Inquiry Number: 3552923.2
March 21, 2013

EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Historical Topographic Map



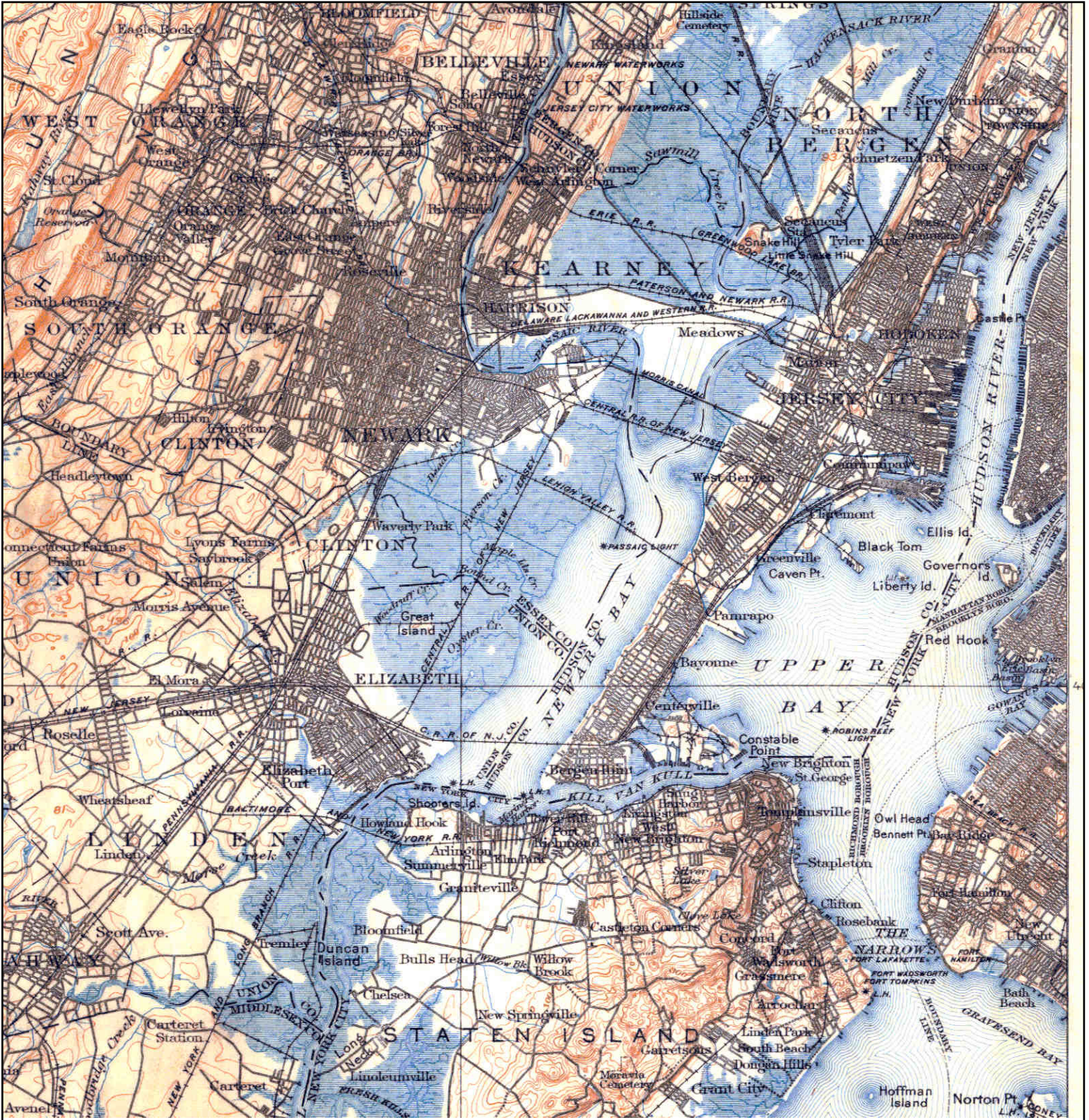
	TARGET QUAD	SITE NAME: Fashionland	CLIENT: Shaw Environmental, Inc.
	NAME: STATEN ISLAND	ADDRESS: 18 Chapel Avenue	CONTACT: William Moran
	MAP YEAR: 1891	Jersey City, NJ 07305	INQUIRY#: 3552923.2
	SERIES: 15	LAT/LONG: 40.6932 / -74.0854	RESEARCH DATE: 03/21/2013
	SCALE: 1:62500		

Historical Topographic Map



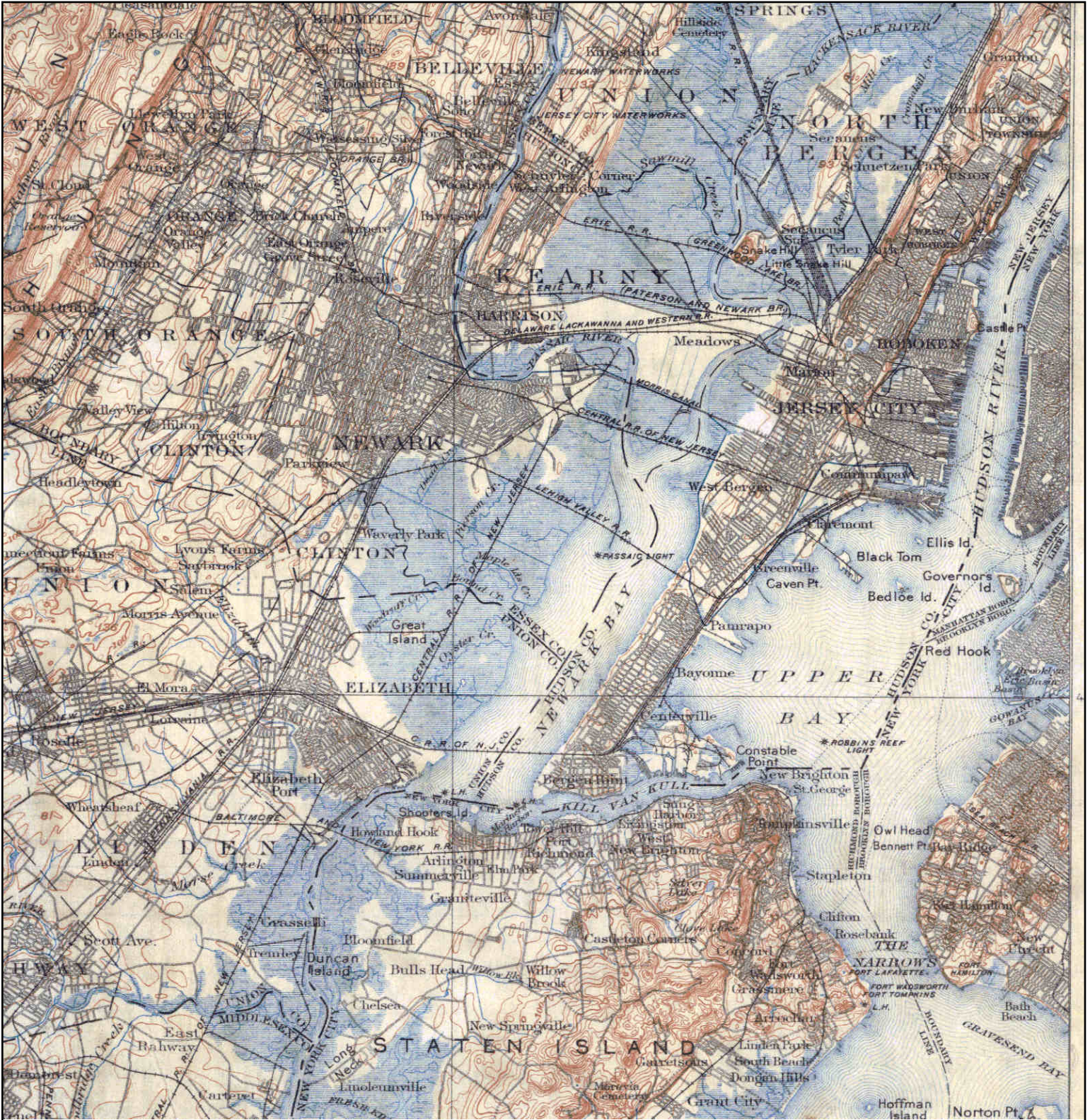
<p>N</p>	<p>TARGET QUAD</p> <p>NAME: STATEN ISLAND</p> <p>MAP YEAR: 1900</p>	<p>SITE NAME: Fashionland</p> <p>ADDRESS: 18 Chapel Avenue Jersey City, NJ 07305</p> <p>LAT/LONG: 40.6932 / -74.0854</p>	<p>CLIENT: Shaw Environmental, Inc.</p> <p>CONTACT: William Moran</p> <p>INQUIRY#: 3552923.2</p> <p>RESEARCH DATE: 03/21/2013</p>
	<p>SERIES: 15</p> <p>SCALE: 1:62500</p>		


Historical Topographic Map



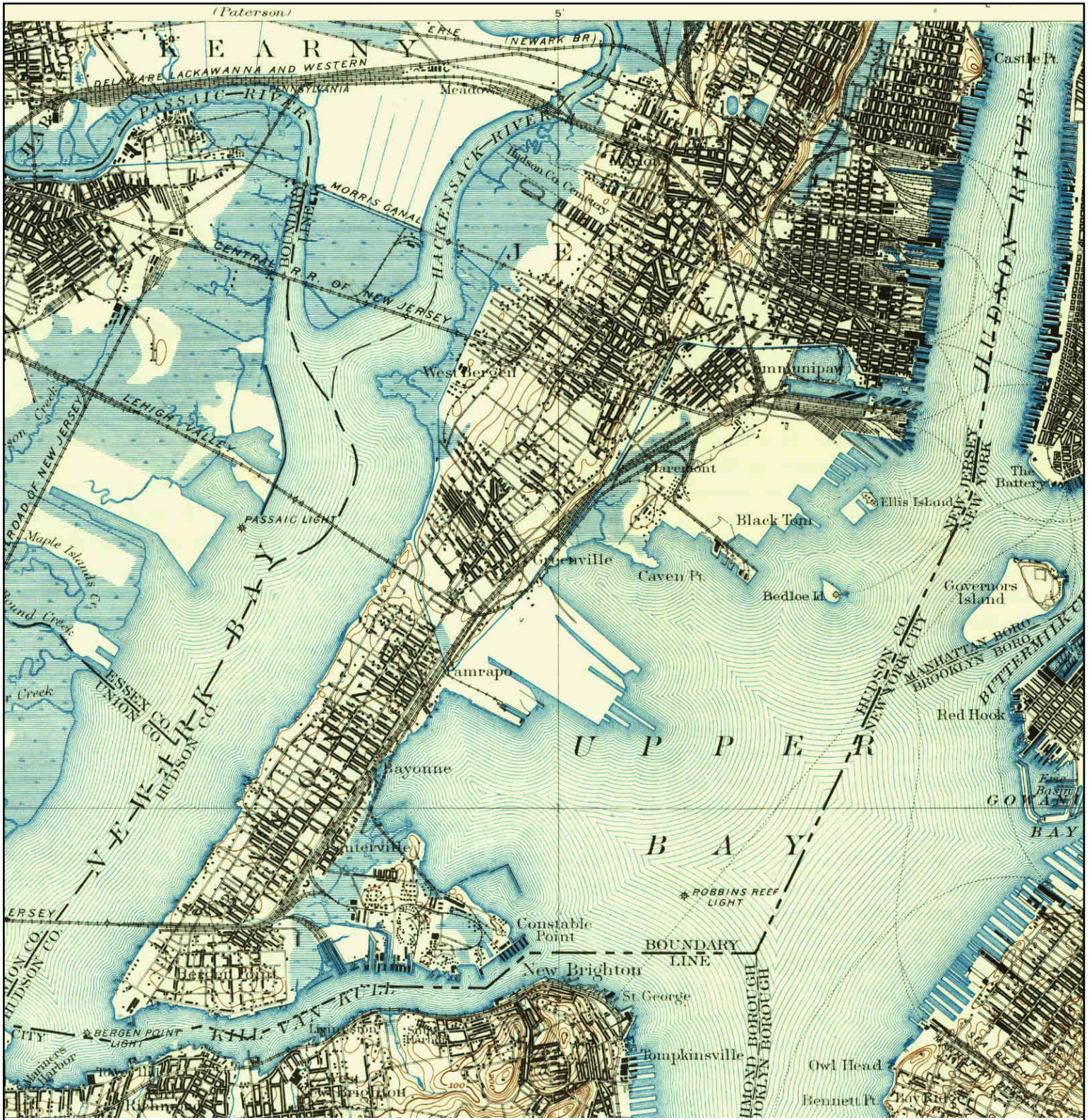
<p>N</p>	<p>TARGET QUAD</p> <p>NAME: PASSAIC</p> <p>MAP YEAR: 1900</p>	<p>SITE NAME: Fashionland</p> <p>ADDRESS: 18 Chapel Avenue Jersey City, NJ 07305</p> <p>LAT/LONG: 40.6932 / -74.0854</p>	<p>CLIENT: Shaw Environmental, Inc.</p> <p>CONTACT: William Moran</p> <p>INQUIRY#: 3552923.2</p> <p>RESEARCH DATE: 03/21/2013</p>
	<p>SERIES: 30</p> <p>SCALE: 1:125000</p>		

Historical Topographic Map



	TARGET QUAD	SITE NAME: Fashionland	CLIENT: Shaw Environmental, Inc.
	NAME: PASSAIC	ADDRESS: 18 Chapel Avenue	CONTACT: William Moran
	MAP YEAR: 1905	JERSEY CITY, NJ 07305	INQUIRY#: 3552923.2
	SERIES: 30	LAT/LONG: 40.6932 / -74.0854	RESEARCH DATE: 03/21/2013
	SCALE: 1:125000		


Historical Topographic Map



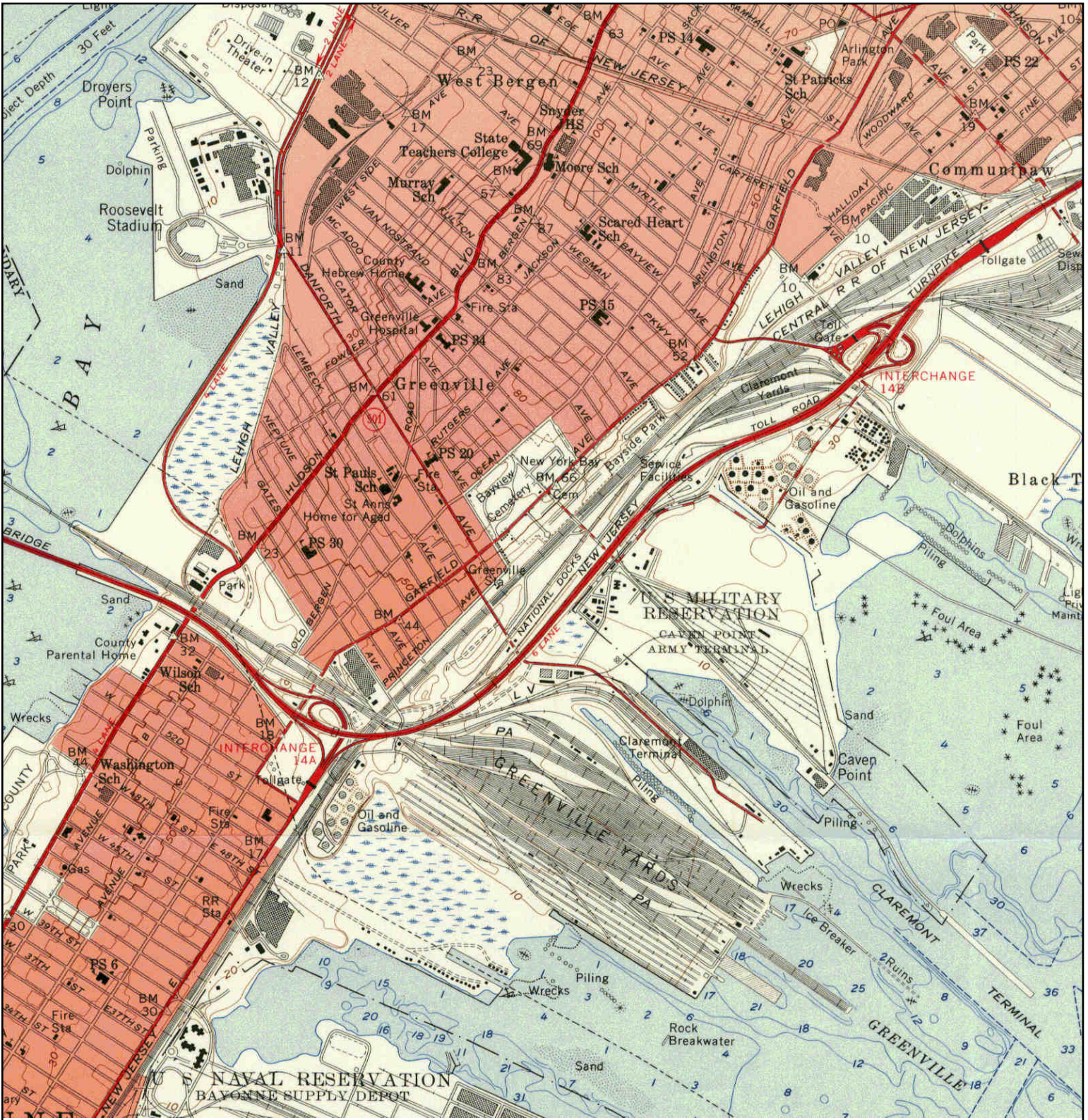
<p>N ↑</p>	TARGET QUAD	SITE NAME: Fashionland	CLIENT: Shaw Environmental, Inc.
	NAME: STATEN ISLAND	ADDRESS: 18 Chapel Avenue	CONTACT: William Moran
	MAP YEAR: 1925	JERSEY CITY, NJ 07305	INQUIRY#: 3552923.2
	REVISED FROM: :1900	LAT/LONG: 40.6932 / -74.0854	RESEARCH DATE: 03/21/2013
	SERIES: 15		
	SCALE: 1:62500		

Historical Topographic Map



	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1947	SITE NAME: Fashionland ADDRESS: 18 Chapel Avenue Jersey City, NJ 07305 LAT/LONG: 40.6932 / -74.0854	CLIENT: Shaw Environmental, Inc. CONTACT: William Moran INQUIRY#: 3552923.2 RESEARCH DATE: 03/21/2013
	SERIES: 7.5 SCALE: 1:25000		

Historical Topographic Map



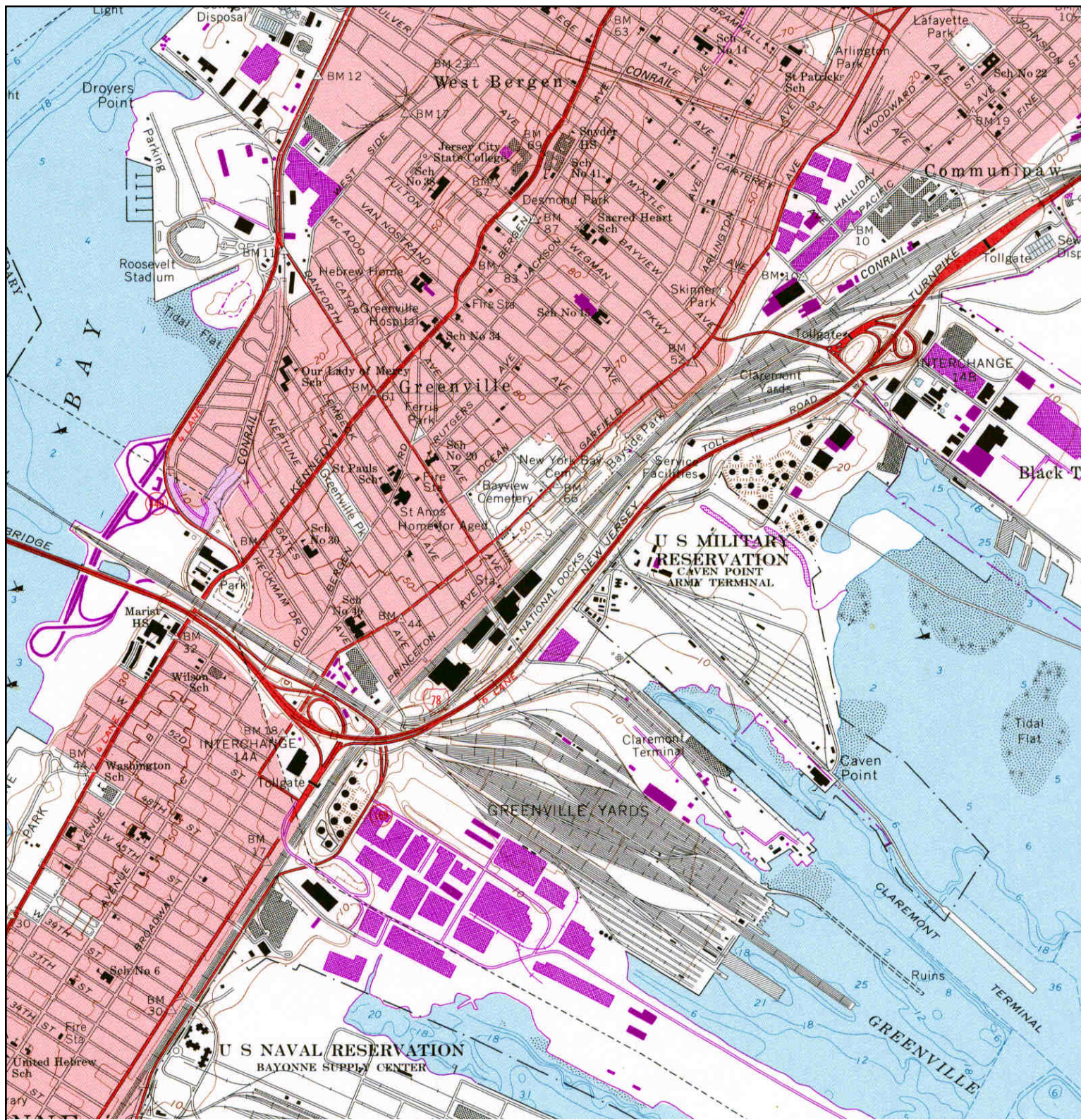
<p>N ↑</p>	<p>TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1955</p>	<p>SITE NAME: Fashionland ADDRESS: 18 Chapel Avenue Jersey City, NJ 07305 LAT/LONG: 40.6932 / -74.0854</p>	<p>CLIENT: Shaw Environmental, Inc. CONTACT: William Moran INQUIRY#: 3552923.2 RESEARCH DATE: 03/21/2013</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1967</p>	<p>SITE NAME: Fashionland ADDRESS: 18 Chapel Avenue Jersey City, NJ 07305 LAT/LONG: 40.6932 / -74.0854</p>	<p>CLIENT: Shaw Environmental, Inc. CONTACT: William Moran INQUIRY#: 3552923.2 RESEARCH DATE: 03/21/2013</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME: Fashionland	CLIENT: Shaw Environmental, Inc.
	NAME: JERSEY CITY	ADDRESS: 18 Chapel Avenue	CONTACT: William Moran
	MAP YEAR: 1981	JERSEY CITY, NJ 07305	INQUIRY#: 3552923.2
	PHOTOREVISED FROM : 1967	LAT/LONG: 40.6932 / -74.0854	RESEARCH DATE: 03/21/2013
	SERIES: 7.5		
	SCALE: 1:24000		