Initial surveys to support shoreline, coastal wetland, and public access restoration at Sunset Cove Park in Queens, New York: soil sampling November, 2013

Sunset Cove Park is an undeveloped site over nine acres in size on a Jamaica Bay inlet (near Big Egg Marsh, part of Gateway National Recreation Area). Formerly a marina and illegal dumping site, the area was seized in 2009 by New York City Department of Parks and Recreation, and is an opportunity for wetlands restoration and public access. As the site is a priority for restoration due to its large size and potential for both public access and wetlands restoration, HEP Habitat funds were used to conduct a preliminary site analysis as a first step toward future restoration. The second step of this preliminary site investigation was soil contamination sampling, completed by Langan Engineering, Environmental, Surveying, and Landscape Architecture, DPC.



Figure 1: Sunset Cove Park (outlined in yellow) in Broad Channel Queens, New York

The Harbor & Estuary Program worked with New York City Department of Parks and Recreation and the National Parks Service to determine the scope of the survey, which included property owned by both organizations. The Program worked with Jamaica Bay Ecowatchers, American Littoral Society, and Broad Channel Civic Association representatives to discuss plans, survey results, and coordinating communication about the future of the site to the Broad Channel community. As a result of this portion of the Sunset Cove project, Langan completed the following:

- Conducted soil sampling and analysis at 6, 12, and 24 inches at 18 locations. Depth was dependent on intended use (e.g. wetlands and public access/ upland restoration).
- Analyzed the soil samples for Semi-volatile and Volatile Organic Carbons (SVOCs and VOCs), polychlorinated biphenyls (PCB), Target Analyte List metal, and pesticides.
- A final technical report appended here, summarizing the results in relation to New York Codes, Rules, and Regulations 6 Part 375 Restricted Soil Cleanup Objectives for Restricted-Residential and Commercial Use).

For additional information about the project including data, contact Kate Boicourt at https://www.habitat@harborestuary.org .



Photo 1: Sunset Park facing south towards the National Park Service property on the right and the former Schmitt's Marina portion on the left. (Boicourt, 2013).



Photo 2: Jamaica Bay Ecowatchers, Broad Channel Civic Association, NYC Dept. of Parks & Recreation, and the NY-NJ Harbor & Estuary Program meet on site to discuss the future of the park (Boicourt, 2013).

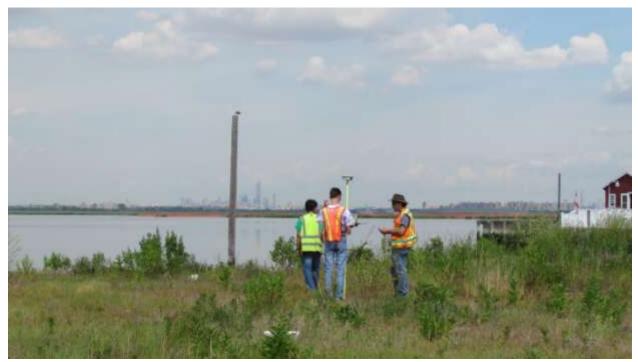


Photo 3: Surveyors meet on the northeast portion of the site. Determining elevations is a first step towards habitat restoration and park development at the site (Boicourt, 2013).

This project was funded by an agreement awarded by the Environmental Protection Agency to the New England Interstate Water Pollution Control Commission in partnership with the New York-New Jersey Harbor & Estuary Program.

Although the information in this document has been funded wholly or in part by the United States Environmental Protection agency under agreement CE98272003 to NEIWPCC, it has not undergone the Agency's publications review process and therefore, may not necessarily reflect the views of the Agency, and no official endorsement should be inferred. The viewpoints expressed here do not necessarily represent those of the New York-New Jersey Harbor & Estuary Program, NEIWPCC, or U.S. EPA, nor does mention of trade names, commercial products, or causes constitute endorsement or recommendation for use.





SOIL INVESTIGATION REPORT

for

SUNSET COVE PARK Broad Channel Queens, New York EPA Site No. CE97272003

Prepared For:

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- Appendix C: Laboratory Analytical Reports

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) conducted a Soil Investigation (SI) for the property known as Sunset Cove Park, located in the Broad Channel neighborhood of Queens, New York ("the Site"). The objective of the investigation was to characterize soil quality to inform design options and potential costs for restoration of the site by the New York City Department of Parks and Recreation (NYCDPR) as a habitat for the local ecology and a public space for recreational usage. The investigation was completed in accordance with the Quality Assurance Project Plan (QAPP), dated September 4, 2013. The field investigation was conducted on October 9, 2013, and included collection and laboratory analysis of 33 soil samples from 18 borings. Soil sampling locations were selected by NYCDPR based on the findings of previous environmental investigations and site terrain features.

2.0 SITE BACKGROUND

2.1. Site Description and Proposed Redevelopment

The site is a 9.37-acre, undeveloped parcel located on the south side of the Broad Channel neighborhood on an inlet of Jamaica Bay. The site is bounded by West 19th Road to the north, Broad Channel American Park to the south, Jamaica Bay to the west, and private residences and Cross Bay Boulevard to the east. A Site Location Map is provided as Figure 1. The site is comprised of Tax Block 15324, Lot 1; Block 15327, Lot 10; and Block 15326, Lot 20 and also an area south of Block 15324 with no lot designation. According to New York State Department of Environmental Conservation (NYSDEC) wetlands maps, the western and central portions of the site are located within tidal wetlands. The western intertidal marsh area (i.e., low marsh area) is separated from the eastern coastal forest by a central high marsh area.

The site was acquired by NYCDPR in November 2009 after it was seized from a private party due to illegal dumping and tax evasion. NYCDPR also owns and oversees the neighboring Broad Channel American Park to the south. Prior to NYCDPR assuming ownership, the site was used as a marina and storage for boats, shipping containers, and discarded marine equipment. The site is being considered for redevelopment as a public park, which may include restoration of the wetland area. The anticipated excavation depth for development will average three feet in the low marsh area and two feet in the high marsh area. No excavation is proposed in coastal forest area.

2.2. Previous Environmental Reports

The following environmental reports have been prepared for the site and are summarized below:

1. Limited Hazardous Materials Investigation Report, prepared by LiRo Engineers, Inc., dated May 4, 2007.

The investigation identified the following conditions at the site:

- The presence of 47 55-gallon drums containing oil, some of which were characterized as containing hazardous waste;
- Several waste oil containers;
- Three 275-gallon aboveground storage tanks (ASTs);
- Boats, generators, motors, and marine equipment, including batteries;
- A drainage ditch consisting mostly of construction and demolition debris and incised within fill material; and
- Miscellaneous discarded waste and debris, including one drum containing water and debris and 51 empty drums.

The report recommended the removal of the hazardous waste, discarded debris, ASTs and abandoned equipment, and a subsurface investigation to assess soil and groundwater quality.

- 2. Memorandum, prepared by Louis Berger and Associates, P.C., dated May 15, 2009 The memorandum summarized the following site activities:
 - A site inventory was performed to quantify and characterize the abandoned marine equipment, and supervision was provided during extraction and collection of petroleum liquids from the equipment;
 - Fluids were evacuated from approximately 315 boats into vacuum trucks and transported off site. Approximately 4,800 gallons of fuel oil, motor oil, hydraulic oil, and other mechanical oils were removed;
 - Approximately 26 marine batteries were removed from the site; and
 - o 123 boats were inaccessible and could not be evacuated of fluids.

The memorandum recommended that spill protection/containment be utilized during dismantling and demolition of remaining boats to prevent contamination from residual

petroleum liquids and completion of a subsurface investigation to delineate potential soil and groundwater impacts.

3. Phase I Environmental Site Assessment (ESA), prepared by ATC Associates, Inc., dated September 15, 2009

Several recognized environmental conditions were identified, including:

- Solid waste (abandoned boats, construction and demolition debris, garbage, and tires) and use of the site for illegal dumping;
- Former storage of boats, aboveground storage tank, drums, and marine batteries;
- Imported fill of unknown quality;
- Two off-site, open NYSDEC spill incidents (Spill Nos. 9208766 and 3102053)
 located upgradient and in close proximity to the site; and
- Off-site, historical automotive repair facility with gasoline tanks located on the eastern adjoining property.

Ninety-eight drums were removed from the site during March and April 2007. The report recommended a Phase II Environmental Site Investigation to determine whether the environmental concerns impacted the suitability of the site for restoration as a park.

3.0 FIELD INVESTIGATION

The field investigation was performed on October 9, 2013 and consisted of the collection and analysis of 33 soil samples (including two field duplicates) from 18 soil borings. A field blank was also prepared and submitted for laboratory analysis. Photographs of the field investigation are included in Appendix A.

All soil borings were advanced by Eastern Environmental Services, Inc. (Eastern) of Manorville, New York using a Geoprobe[®] 7822 DT direct-push drill rig under the supervision of a Langan field engineer. The borings were advanced to depths ranging from 0.5 feet below ground surface (ft bgs) to 5 ft bgs. Sampling locations and depths were established in the QAPP and based on the future intended use of the site as a park. Locations and depths of selected samples were modified by NYCDPR during the investigation. Sampling depths reflected anticipated development excavation depths, which average between two and three feet in high and low marsh areas, respectively. Excavation is not planned in the coastal forest areas.

Soil borings SB-1 thru SB-5 were advanced in coastal forest areas, borings SB-7 and SB-9 through SB-11 were advanced in high marsh areas, and borings SB-6, SB-8, and SB-12 through SB-18 were advanced in low marsh areas.

Soil samples were collected into dedicated, acetate liners from each boring and classified for soil type, grain size, and texture. Each sample was evaluated for visual and olfactory evidence of environmental impacts, and screened for organic vapors with a photoionization detector (PID). A total of 31 grab soil samples were collected into dedicated, and traceable laboratory-supplied sample containers, placed in ice-chilled coolers, and shipped under proper chain-of-custody procedures to Alpha Analytical (Alpha) in Westborough, Massachusetts. Alpha is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program certified laboratory. Two field duplicate samples were collected for quality assurance purposes. All samples were analyzed for volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), polychlorinated biphenyls (PCB), pesticides, herbicides, metals, cyanide, and hexavalent chromium in accordance with USEPA Methods 8260/5035, 8270D, 8082A, 8081B, 8151A, 3050B/7471B, 9010C/9012A, and 7196A, respectively.

Boring locations are shown on Figure 2, and soil boring logs are provided in Appendix B. Table 1 provides details regarding the soil sample depths, composition, and organic vapor concentration.

4.0 RESULTS

4.1 Subsurface Observations

Langan observed the following items during the field investigation:

- High and low marsh area A one- to two-foot thick layer of historic fill consisting of sand comingled with fragments of brick, gravel, concrete, wood, domestic waste, and metal debris was encountered. The fill was generally underlain by an organic layer consisting of woody, decaying aquatic and costal plants, followed by gray sand, with the exception of boring SB-17 in which historic fill was underlain by gravel.
- Coastal Forest Soil in the coastal forest area is generally characterized by native sand and gravel. Historic fill consisting of sand comingled with gravel and fragments of brick and concrete was encountered in SB-5, which is located in the northern coastal forest area.

• No visual, olfactory or PID evidence of soil contamination was observed during the investigation. PID readings ranging from 1.2 to 3.5 parts per million (ppm) and apparent non-petroleum organic odors were observed in soil samples containing organic matter.

4.2 Analytical Results

Soil sampling results were compared to New York Codes, Rules and Regulations (NYCRR) 6 Part 375 Restricted Soil Cleanup Objectives (SCOs) for Restricted-Residential and Commercial Use. SVOCs, PCBs, and metals were detected at concentrations that exceeded the Part 375 Restricted-Residential and Commercial Use SCOs in several samples. The numerical comparisons are provided in Tables 2a and 2b, and spatially illustrated on Figure 3. In general, samples exhibiting exceedences consisted of historic fill material collected from high and low marsh areas of the site. A summary of the compounds that exceeded the standards is provided below:

4.2.1 High Marsh and Low Marsh Areas

VOCs, Pesticides and Herbicides

Concentrations of VOCs, pesticides and herbicides did not exceed 6 NYCRR Part 375 Restricted Residential Use SCOs in any samples collected from high and low marsh areas.

<u>SVOCs</u>

One or more of the following SVOCs exceeded 6 NYCRR Part 375 Restricted Residential and Commercial Use SCOs in six historic fill and two native soil samples:

- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene

- Chrysene
- Dibenzo(a,h)anthracene
- Indeno(1,2,3-cd)Pyrene

The following SVOCs exceeded Part 375 Restricted Residential Use SCOs only in six historic fill and four native soil samples;

- Benzo(a)anthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene

- Fluoranthene
- Indeno(1,2,3-cd)Pyrene
- Phenanthrene
- Pyrene

PCBs

Eight historic fill and three native soil samples contained total PCB concentrations above the 6 NYCRR Part 375 Restricted Residential and Commercial Use SCOs. One sample, SB-14-3, contained total PCBs at a concentration of 57.54 mg/kg, which exceeds the NYSDEC criterion for hazardous waste (50 mg/kg) per 6 NYCRR 371.4(e).

Metals

One or more of the following metals exceeded 6 NYCRR Part 375 Restricted Residential and Commercial Use SCOs in six historic fill and one native soil samples:

- Barium
- Copper

Cadmium

Mercury

Lead

One or more of the following metals exceeded 6 NYCRR Part 375 Restricted Residential Use SCOs only in three historic fill and one native soil samples:

- Lead
- Cadmium
- Mercury

4.2.2 Costal Forest Areas

VOCs, PCBs, Pesticides, Herbicides

Concentrations of VOCs, PCBs, pesticides and herbicides did not exceed 6 NYCRR Part 375 Restricted Residential or Commercial Use SCOs in any samples collected from costal forest areas.

SVOCs

Concentrations of SVOCs did not exceed 6 NYCRR Part 375 Commercial Use SCOs in any samples collected from costal forest areas. The SVOCs benzo(b)fluoranthene and indeno(1,2,3cd)pyrene exceeded 6 NYCRR Part 375 Restricted Residential SCOs in one soil sample, SB-4-S, which consisted of native soil.

Metals

Metals concentrations did not exceed the applicable SCOs in samples collected from coastal forest areas, with the exception of copper, which exceeded 6 NYCRR Part 375 Restricted

Residential and Commercial Use SCOs in one soil sample, SB-4-S, which consisted of native soil.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the soil investigation indicate that historic usage of the site has adversely impacted soil in the high and low marsh portions of the site. Soil samples collected from the coastal forest area generally did not exhibit indications of soil impacts. Based on the above findings, we conclude the following:

High and Low Marsh areas

- Historic fill containing fragments of brick, concrete, wood, domestic refuse, and metal is present at surface grade to depths of 1 to 2 ft bgs within the low and high marsh areas.
- SVOCs were detected at concentrations above 6 NYCRR Part 375 Restricted Residential and Commercial Use SCOs in multiple borings in the high and low marsh areas. The detected SVOCs are characterized as polycyclic aromatic hydrocarbons (PAH), which are typically byproducts of combustion and associated with asphalt, coal, ash, and incinerated waste. PAHs are common constituents of historic fill in New York City. However, PAH impacts to historic fill were not systematic throughout the site, and samples of native soil collected from borings SB-14 and SB-17 also contained elevated concentrations of PAHs. The elevated SVOC concentrations therefore likely reflect localized impacts from uncontrolled waste and marine equipment storage.
- Total PCBs were detected at concentrations above Part 375 Restricted Residential and Commercial Use SCOs in multiple borings. The total PCB concentration in sample SB-14-3 also exceeded the NYSDEC criterion for hazardous waste. The elevated concentrations were generally identified in historic fill, with the exception of native soil samples collected from borings SB-9, SB-14 and SB-17. PCBs were historically constituents of fluorescent light ballasts, hydraulic oil, transformer fluids, and caulking, among other components. The distribution of elevated PCB concentrations in high and low marsh areas indicates localized impacts resulting from uncontrolled waste disposal, rather than background conditions in historic fill. The vertical extent of PCB impacts was not delineated in borings SB-9, SB-14, and SB-17.
- Soil samples that contained elevated concentrations of metals included cadmium, copper, lead, and mercury, which are commonly associated with vehicle batteries, brakes, and other vehicle components. The vertical extent of metals impacts were not delineated in SB-14 and SB-16.

Costal Forest Areas

- The coastal forest area generally does not contain historic fill, with the exception of shallow fill material observed on the northern portion of the area.
- Laboratory analytical results did not indicate VOC, PCB, pesticide, or herbicide impacts to soil.
- One sample, SB-4-S, contained two PAHs at concentrations above the 6 NYCRR Restricted Residential SCOs, and copper at a concentration above the 6 NYCRR Part 375 Restricted Residential and Commercial Use SCOs. Uncontrolled waste disposal is the likely source of these impacts.

Based on the above results, soil and fill excavated during development activities will be classified as regulated solid waste pursuant to 6 NYCRR Part 360. Based on detected PCB concentrations, soil excavated in the vicinity of boring SB-14 will also be classified as a NYSDEC hazardous waste in accordance with 6 NYCRR Part 371.4. The EPA regulates PCB-containing waste under the Toxic Substances Control Act and 40 CFR 761.3, which mandate that EPA notification is required for the disposal of solid waste containing PCBs at concentrations above 50 mg/kg. 40 CFR 761.3 also establishes cleanup levels for sites containing PCB remediation waste, based on high vs. low occupancy site usage and the presence of engineering and institutional controls (e.g., impermeable site caps and land use restrictions).

The excavated material must be managed and transported off site in accordance with applicable Federal, State, and local regulations and disposed at a facility permitted to accept contaminated soil. Additional soil sampling may be required to characterize the soil in accordance with the permit requirements of the selected disposal facility. Regulatory or disposal facility requirements may also warrant additional soil analysis for hazardous waste characteristics and additional sampling to vertically delineate the extent of SVOC and PCB impacts.

6.0 LIMITATIONS

This Soil Investigation Report was prepared expressly for the New England Interstate Water Pollution Control Commission for the Sunset Cover Park Property in Queens, New York for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

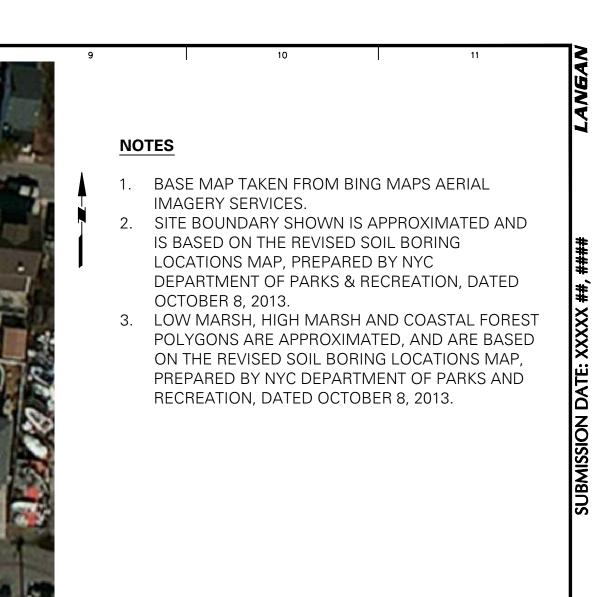
The conclusions, opinions, and recommendations provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples and from environmental reports prepared by other professionals that were provided by the client. Recommendations provided are contingent upon one another and no recommendation should be followed independent of the others. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions, opinions and recommendations.

FIGURES



© 201





SB-1

LEGEND

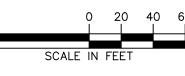
- SITE BOUNDARY



- LOW MARSH AREA



- COASTAL FOREST AREA



Drawn By Checked By

DC

SPL

Submission Date

SOIL INVESTIGATION REPORT	
SUNSET COVE PARK	
QUEENS NEW YORK	

SOIL BORING LOCATION MAP

Drawing Title

NEW YORK 7 NOVEMBER 2013 Filename: \\langan.com\data\NY\data4\170220401\Cadd Data - 170220401\2D-DesignFiles\D.Carrus\Borings_CAD - ANNOTATED3.dwg Date: 11/21/2013 Time: 14:22 User: dcarrus Style Table: Langan.stb Layout: ARCHC-BL

2

SUBMISSION DATE: XXXXX

PROJECT No. ####

Client Sample ID	SB-17-1	SB-17-3
Lab Sample ID	L1320271-28	L1320271-29
Sampling Date	10/9/2013	10/9/2013
Sample Depth (ft.)	1	3
Semivolatile Organic Compo	unds (mg/kg)	
Benzo(a)anthracene	46	100
Benzo(a)pyrene	42	90
Benzo(b)fluoranthene	54	120
Benzo(k)fluoranthene	17	45
Chrysene	42	81
Dibenzo(a,h)anthracene	6.5	16
Fluoranthene	110	220
Indeno(1,2,3-cd)Pyrene	25	53
Phenanthrene	NE	200
Pyrene	NE	170
Polychlorinated Biphenyls (m	ng/kg)	
Total PCBs	NE	2.139

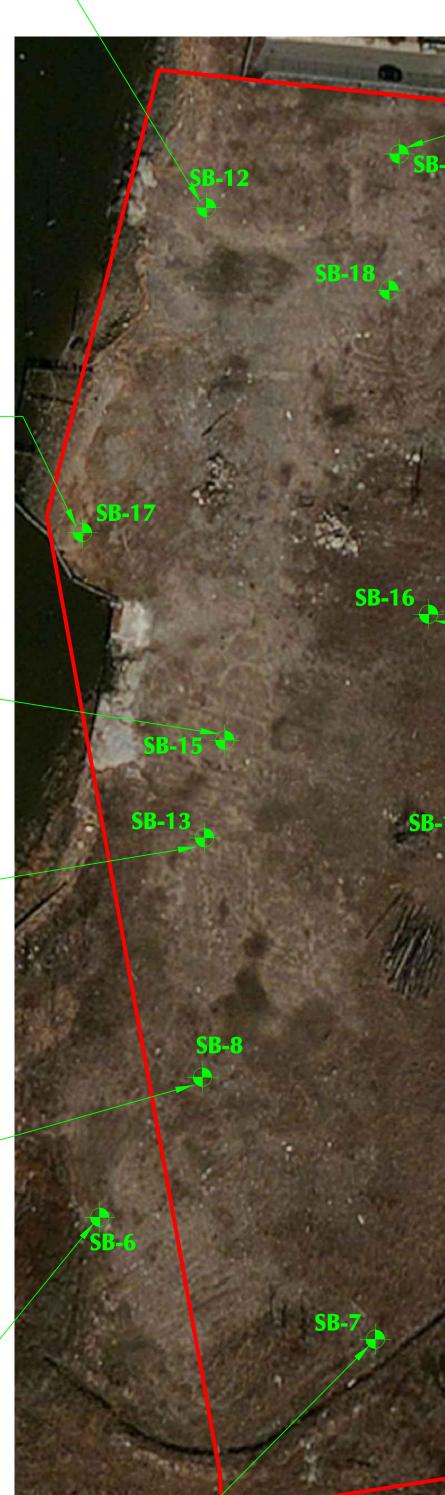
1

Client Sample ID	SB-15-1
Lab Sample ID	L1320271-24
Sampling Date	10/9/2013
Sample Depth (ft.)	1
Polychlorinated Bipheny	ls (mg/kg)
Total PCBs	7.404 J

Client Sample ID	SB-13-1
Lab Sample ID	L1320271-20
Sampling Date	10/9/2013
Sample Depth (ft.)	1
Polychlorinated Bipher	nyls (mg/kg)
Total PCBs	3.796
Metals (mg/kg)	•
Copper, Total	500

Client Sample ID	SB-8-1
Lab Sample ID	L1320271-10
Sampling Date	10/9/2013
Sample Depth (ft.)	1
Semivolatile Organic Compo	ounds (mg/kg)
Benzo(a)anthracene	5.8
Benzo(a)pyrene	5.4
Benzo(b)fluoranthene	6.5
Chrysene	5.7
Indeno(1,2,3-cd)Pyrene	3.4 J
Polychlorinated Biphenyls (r	ng/kg)
Total PCBs	2.35
Metals (mg/kg)	
Cadmium, Total	14
Copper, Total	710
Lead, Total	760

Client Sample ID	SB-6-1
Lab Sample ID	L1320271-06
Sampling Date	10/9/2013
Sample Depth (ft.)	1
Semivolatile Organic Compo	unds (mg/kg)
Benzo(a)anthracene	16
Benzo(a)pyrene	14
Benzo(b)fluoranthene	18
Benzo(k)fluoranthene	6.3
Chrysene	15
Dibenzo(a,h)anthracene	2.2
Indeno(1,2,3-cd)Pyrene	9.6



Client Sample ID	SB-7-1
Lab Sample ID	L1320271-08
Sampling Date	10/9/2013
Sample Depth (ft.)	1
Semivolatile Organic Compou	inds (mg/kg)
Benzo(a)anthracene	14
Benzo(a)pyrene	11
Benzo(b)fluoranthene	16
Benzo(k)fluoranthene	5.6
Chrysene	14
Dibenzo(a,h)anthracene	2
Indeno(1,2,3-cd)Pyrene	7.1
Polychlorinated Biphenyls (m	g/kg)
Total PCBs	1.986
Metals (mg/kg)	
Copper, Total	460

Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Metals (mg/kg) Barium, Total Copper, Total

SB-11-2 L1320271-17 10/9/2013 2 690 NE



Cadmium, Total Copper, Total Lead, Total Mercury, Total	27 970 3200	9.9 890 900
Metals (mg/kg) Barium, Total	810	NE
Total PCBs	23.49 PI	57.54 J
Polychlorinated Biphenyls (n	ng/kg)	
Pyrene	ND	110
Indeno(1,2,3-cd)Pyrene	ND	34
Fluoranthene	ND	150
Dibenzo(a,h)anthracene	ND	9.1
Chrysene	ND	64
Benzo(k)fluoranthene	ND	32
Benzo(b)fluoranthene	ND	70
Benzo(a)pyrene	ND	54
Benzo(a)anthracene		67
Sample Depth (ft.) Semivolatile Organic Compo	1 <u>1</u>	3
Sampling Date	10/9/2013	10/9/2013
Lab Sample ID	L1320271-22	L1320271-23
Client Sample ID	SB-14-1	SB-14-3

lient Samolo ID		NOTES	
Client Sample ID Lab Sample ID	SB-18-1 L1320271-30		
Sampling Date	10/9/2013		MAPS AERIAL IMAGERY SERVICES, DATED 2013. PPROXIMATED AND IS BASED ON THE REVISED SOIL BORING
Sample Depth (ft.)	1		BY NYC DEPARTMENT OF PARKS & RECREATION, DATED OCTOBER 8,
Semivolatile Organic Compoun	lds (mg/kg)	2013.	
Benzo(a)anthracene	4.2		MPARED TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL
Benzo(a)pyrene	3.2		RT 375 TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK IONS (NYCRR) PART 375 RESTRICTED USE RESTRICTED RESIDENTIAL
Benzo(b)fluoranthene	3.9		ERCIAL SOIL CLEANUP OBJECTIVES (SCOs).
ndeno(1,2,3-cd)Pyrene	2.1 J	4. ONLY EXCEEDING CONCENTRA	
		 COMPOUNDS DETECTED AT C ND = NOT DETECTED. 	ONCENTRATIONS EXCEEDING BOTH CRITERIA ARE SHOWN IN BOLD .
		7. NE = NO EXCEEDANCES.	
			VELY IDENTIFIED AND THE ASSOCIATED NUMERICAL VAULE IS THE
	1	APPROXIMATE CONCENTRATI VALUE.	ON OF THE ANALYTE IN THE SAMPLE. THIS IS AN ESTIMATED
Client Sample ID	SB-10-S		ESULTS FOR THE TWO COLUMNS EXCEEDS THE METHOD-SPECIFIED
_ab Sample ID	L1320271-14	CRITERIA.	
Sampling Date	10/9/2013	 I = THE LOWER VALUE FOR TH INTERFERENCE. 	E TWO COLUMNS HAS BEEN REPORTED DUE TO OBVIOUS
Sample Depth (ft.) Semivolatile Organic Compoun	$\frac{0 \text{ to } 0.5}{\text{ ods } (\text{mg}/\text{kg})}$	11. mg/kg = MILLIGRAMS PER KIL	DGRAM.
Benzo(a)anthracene	1.4		
Benzo(a)pyrene	1.2 J		
Benzo(b)fluoranthene	1.5		
ndeno(1,2,3-cd)Pyrene	0.83 J		
liant Comple ID			
lient Sample ID	SB-4-S	1	
ab Sample ID ampling Date	L1320271-0 10/9/2013		
ample Depth (ft.)	0 to 0.5		
letals (mg/kg)	0.00.0		
opper, Total	3200		
emivolatile Organic Compound	ds (mg/kg)		
ideno(1,2,3-cd)Pyrene	0.63		
Client Sample ID		SB-16-1	
ab Sample ID	L1:	320271-26	LEGEND
ampling Date		0/9/2013	- SITE BOUNDARY
ample Depth (ft.)		1	
	(a)		۲ [.]
olychlorinated Biphenyls (mg/k	<u> </u>		SB-1 - SOIL BORING LOCATION
otal PCBs		44.29	SB-1 - SOIL BORING LOCATION
otal PCBs Ietals (mg/kg)			SB-1 - SOIL BORING LOCATION
otal PCBs Aetals (mg/kg) Cadmium, Total		20	SB-1 - SOIL BORING LOCATION
otal PCBs Aetals (mg/kg) Cadmium, Total Copper, Total		20 1100	SB-1 - SOIL BORING LOCATION
otal PCBs Aetals (mg/kg) Cadmium, Total Copper, Total ead, Total		20 1100 2200	SB-1 - SOIL BORING LOCATION
otal PCBs Aetals (mg/kg) Cadmium, Total Copper, Total		20 1100	SB-1 - SOIL BORING LOCATION
otal PCBs Aetals (mg/kg) Cadmium, Total Copper, Total ead, Total		20 1100 2200	SB-1 - SOIL BORING LOCATION
otal PCBs Aetals (mg/kg) Cadmium, Total Copper, Total ead, Total		20 1100 2200	SB-1 - SOIL BORING LOCATION
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Restricted-Residential SCO Use Commercial SCO Semivolatile Organic Compounds (mg/kg) Ise Commercial SCO Benzo(a)anthracene 1 Benzo(a)intracene 1 Dibenzo(a, h)anthracene 1 Dibenzo(a, h)anthracene 0.33 Dibenzo(a, h)anthracene 0.33 Project SUNSET COVE PARK Queens New YOR Indeno(1, 2, 3-col)Pyrene 5.6 Phonanthrene 100 Polychlorinated Biphenyls (mg/kg) Total PCBs Total PCBs 1 Barium, Total 2.5 Cadmium, Total 2.5 Cadmium, Total 2.5 Cadmium, Total 2.5 Copper, Total 270 Lead, Total 0.00 Nercury, Total 2.8	Restricted-Residential SCO Use Commercial SCO Semivolatile Organic Compounds (mg/kg) Project Benzolalphyrene 1 5.6 Benzolalphyrene 1 5.6 Benzolk/infuoranthene 1 5.6 Benzolk/infuoranthene 1 5.6 Dibenzolk/infuoranthene 1 56 Dibenzolk/infuoranthene 1 56 Dibenzolk/infuoranthene 0.33 0.56 Project SUNSET COVE PARK Queens New YORK Project SOIL INVESTIGATION REPORT 500 Indeno(1,2,3-cdiPyrene 0.5 100 500 Project No. New YORK Drawing Title New YORK Drawing Title SOIL SAMPLE Barium, Total 350 400 Cadmium, Total 350 400 Cadmium, Total 2.5 9.3 Copper, Total 2.70 2.70 Lead, Total 0.81 2.8 November 2013 Scole 1 Scole 1'' = 60' 3	Compound	NVCDEC Dort 27E Dootriotor	NVSDEC Dart 275 Destricted	Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, Inc.
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Detrogringeryeite 100 500 Benzolk/Huoranthene 1 56 Chrysene 1 56 Dibenzola,hlanthracene 0.33 0.56 Fluoranthene 100 500 Indeno(1, 2, 3-cd)Pyrene 0.5 5.6 Phenanthrene 100 500 Pyrene 100 500 Polychlorinated Biphenyls (mg/kg) 500 Total PCBs 1 1 Metals (mg/kg) 500 Barium, Total 2.5 9.3 Copper, Total 270 270 Lead, Total 400 1000 Mercury, Total 0.81 2.8	Delargolityleritere 100 500 Berzoklyfluoranthene 1 56 Chrysene 1 56 Diberzoka,hlanthracene 0.33 0.56 Fluoranthene 100 500 Indeno(1,2,3-cd)Pyrene 0.5 5.6 Phenanthrene 100 500 Polychlorinated Biphenyls (mg/kg) Total 0 Total COB 1 1 Metals (mg/kg) Barrum, Total 2.5 Copper, Total 270 270 Lead, Total 0.81 2.8		1	5.6	
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Fluoranthene 100 500 Indeno(1,2,3-cd)Pyrene 0.5 5.6 Phenanthrene 100 500 Pyrene 100 500 Polychlorinated Biphenyls (mg/kg) 500 500 Total PCBs 1 1 Metals (mg/kg) 1 1 Barium, Total 2.5 9.3 Copper, Total 270 270 Lead, Total 400 1000 Mercury, Total 0.81 2.8	Fluoranthene 100 500 Indeno(1,2,3-cd)Pyrene 0.5 5.6 Phenanthrene 100 500 Polychlorinated Biphenyls (mg/kg) 500 500 Polychlorinated Biphenyls (mg/kg) 500 500 Total PCBs 1 1 Metals (mg/kg) 500 500 Barium, Total 2.5 9.3 Copper, Total 2.70 2.70 Lead, Total 400 1000 Mercury, Total 0.81 2.8 Project No. 170220401 Drowing No. Scale 1" = 60' 3		0.33		
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Polychlorinated Biphenyls (mg/kg) SOIL SAMPLE Total PCBs 1 Metals (mg/kg) 350 Barium, Total 350 Cadmium, Total 2.5 Copper, Total 270 Lead, Total 400 Mercury, Total 0.81 Drawing No. 170220401 Date Drawing No.	Polychlorinated Biphenyls (mg/kg) SOIL SAMPLE Total PCBs 1 1 Metals (mg/kg) 350 400 Barium, Total 2.5 9.3 Copper, Total 270 270 Lead, Total 400 1000 Mercury, Total 0.81 2.8 Scole 1'' = 60' 3				
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Cadmium, Total0.009.3Copper, Total2.70270Lead, Total4001000Mercury, Total0.812.8Drawing No.Drawing No.10000.81Date	Cadmium, Total2.59.3Copper, Total270270Lead, Total4001000Mercury, Total0.812.8Project No.ITO220401Drawing No.Scale1" = 60'3	Total PCBs	1	1	
Cadmium, Total0.009.3Copper, Total2.70270Lead, Total4001000Mercury, Total0.812.8Drawing No.Drawing No.10000.81Date	Cadmium, Total2.59.3Copper, Total270270Lead, Total4001000Mercury, Total0.812.8Project No.ITO220401Drawing No.Scale1" = 60'3		050	100	IFXCEEDANCES MAP
Copper, Total270270Lead, Total4001000Mercury, Total0.812.8Date	Copper, Total270270Lead, Total4001000Mercury, Total0.812.8Drawing No.Scale1" = 60'3				
Mercury, Total0.812.8Project No.Drawing No.IT0220401Date	Mercury, Total 0.81 2.8 Project No. Drawing No. Date 8 NOVEMBER 2013 Scale 1" = 60' 3	Copper, Total			
Intercury, rotal 0.81 2.8 170220401 Date	Intercuty, rotal 170220401 Date 8 NOVEMBER 2013 Scale 1" = 60'				Project No. Drawina No.
	8 NOVEMBER 2013 Scale 1" = 60' 3	Iviercury, Iotai	0.81	2.8	170220401
8 NOVEMBER 2013	$\frac{\text{Scale}}{1^{"}} = 60^{"}$				
	1 = 60				Scale
= 60					

6			
	Ι	7	8
Client Sample ID	SB-18-1	NOTES	
Lab Sample ID	L1320271-30	<u></u>	
Sampling Date	10/9/2013		ERIAL IMAGERY SERVICES, DATED 2013.
Sample Depth (ft.)	1		1ATED AND IS BASED ON THE REVISED SOIL BORING DEPARTMENT OF PARKS & RECREATION, DATED OCTOBER 8,
Semivolatile Organic Compour	ds (mg/kg)	2013.	
Benzo(a)anthracene	4.2		D TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL
Benzo(a)pyrene	3.2		ITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK (CRR) PART 375 RESTRICTED USE RESTRICTED RESIDENTIAL
Benzo(b)fluoranthene	3.9	AND RESTRICTED USE COMMERCIAL S	
Indeno(1,2,3-cd)Pyrene	2.1 J	4. ONLY EXCEEDING CONCENTRATIONS	
		 COMPOUNDS DETECTED AT CONCENT ND = NOT DETECTED. 	RATIONS EXCEEDING BOTH CRITERIA ARE SHOWN IN BOLD .
		7. NE = NO EXCEEDANCES.	
			ENTIFIED AND THE ASSOCIATED NUMERICAL VAULE IS THE
		APPROXIMATE CONCENTRATION OF T VALUE.	HE ANALYTE IN THE SAMPLE. THIS IS AN ESTIMATED
Client Sample ID	SB-10-S		OR THE TWO COLUMNS EXCEEDS THE METHOD-SPECIFIED
Lab Sample ID	L1320271-14	CRITERIA.	
Sampling Date	10/9/2013	 I = THE LOWER VALUE FOR THE TWO (INTERFERENCE. 	COLUMNS HAS BEEN REPORTED DUE TO OBVIOUS
Sample Depth (ft.) Semivolatile Organic Compour	$\frac{0 \text{ to } 0.5}{\text{ ods } (\text{mg/kg})}$	11. mg/kg = MILLIGRAMS PER KILOGRAM.	
Benzo(a)anthracene	1.4		
Benzo(a)pyrene	1.2 J		
Benzo(b)fluoranthene	1.5		
Indeno(1,2,3-cd)Pyrene	0.83 J		
	0.5.4.0		
Client Sample ID	SB-4-S		
Lab Sample ID Sampling Date	L1320271-04 10/9/2013		
Sample Depth (ft.)	0 to 0.5		
Metals (mg/kg)	0.00		
Copper, Total	3200		
Semivolatile Organic Compound			
Indeno(1,2,3-cd)Pyrene	0.63		
Client Sample ID	SB-2	16-1	
Lab Sample ID	L13202		LEGEND
Sampling Date	10/9/2	2013	- SITE BOUNDARY
Sample Depth (ft.)	1	1	
Polychlorinated Biphenyls (mg/	<u> </u>		SB-1 - SOIL BORING LOCATION
Total PCBs	44.	29	
Metals (mg/kg)	0	<u> </u>	
Cadmium, Total Copper, Total	20		
Lead Total			
Lead, Total Mercury, Total	22	00	
Lead, Total Mercury, Total		00	
-	22	00	
-	22	00	
Mercury, Total	9.	00 .8	
Mercury, Total Client Sample ID	22 9. SB-9-S	00 8 SB-9-2	
Mercury, Total Client Sample ID Lab Sample ID	22 9. SB-9-S L1320271-12	00 8 SB-9-2 L1320271-13	
Mercury, Total Client Sample ID Lab Sample ID Sampling Date	SB-9-S L1320271-12 10/9/2013	00 8 SB-9-2 L1320271-13 10/9/2013	
Mercury, Total Client Sample ID Lab Sample ID	22 9. SB-9-S L1320271-12	00 8 SB-9-2 L1320271-13	60 0 20 40 60 60 SCALE IN FEET
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.)	SB-9-S L1320271-12 10/9/2013 0 to 0.5	00 8 SB-9-2 L1320271-13 10/9/2013 2	
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g)	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J	
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2	SCALE IN FEET
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg)	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND <g) 1.1476</g) 	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159	SCALE IN FEET
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g)	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J	
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg)	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND <g) 1.1476</g) 	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159	SCALE IN FEET
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg)	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND <g) 1.1476</g) 	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159	SCALE IN FEET SCALE
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg)	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND <g) 1.1476</g) 	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159	SCALE IN FEET SCALE
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg) Cadmium, Total	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9	SCALE IN FEET SCALE
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg)	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted	SCALE IN FEET
Mercury, Total	SB-9-S 9. L1320271-12 10/9/2013 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE SE	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted	SCALE IN FEET SCALE IN FEET
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/l) Total PCBs Metals (mg/kg) Cadmium, Total Compound Semivolatile Organic Compounds (mg/l)	SB-9-S 9. L1320271-12 10/9/2013 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE SE	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO	<section-header></section-header>
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/l) Total PCBs Metals (mg/kg) Cadmium, Total Compound Semivolatile Organic Compounds (mg/l) Benzo(a)anthracene	SB-9-S 9. L1320271-12 10/9/2013 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE SE	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted	SCALE IN FEET SCALE IN FEET
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/l) Total PCBs Metals (mg/kg) Cadmium, Total	SB-9-S 9. L1320271-12 10/9/2013 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE SE	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO	SCALE IN FEET SCALE IN FEET SCALE IN FEET SCALE IN FEET SCALE IN FEET SCALE IN FEET SCALE IN FEET SCALE IN FEET SCALE IN FEET SCALE IN FEET SCALE IN FEET
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/l) Total PCBs Metals (mg/kg) Cadmium, Total Semivolatile Organic Compounds (mg/l) Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(ghi)perylene	SB-9-S 9. L1320271-12 10/9/2013 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE SE	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO	<section-header></section-header>
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg) Cadmium, Total Semivolatile Organic Compounds (mg Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND <g)< td=""> 1.1476 NE NE NE NE 1.1476</g)<>	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO	<section-header><section-header><section-header><section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header>
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/r Total PCBs Metals (mg/kg) Cadmium, Total Semivolatile Organic Compounds (mg/r Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE 1.1476 0 (g) 1.1476	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 500 56 56	<section-header><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></section-header>
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg) Cadmium, Total Semivolatile Organic Compounds (mg Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(a,h)anthracene Fluoranthene	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND <g)< td=""> 1.1476 NE NE NE NE 1.1476</g)<>	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 500 56 56 500 500	<section-header><section-header><text><text><text><text><text><text><text></text></text></text></text></text></text></text></section-header></section-header>
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg) Cadmium, Total Compound Semivolatile Organic Compounds (mg/ Benzo(a)anthracene Benzo(a)pyrene Benzo(a)hthracene Benzo(b)fluoranthene Benzo(a)hthracene Benzo(b)fluoranthene Benzo(a)hthracene Benzo(a)hthracene Benzo(a)hthracene Benzo(a)hthracene Benzo(a)hthracene Benzo(a)hthracene Benzo(a,h)anthracene Fluoranthene Indeno(1,2,3-cd)Pyrene	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE 1.1476 (g) 1.1476 NE 0.375 1 1 100 1 0.33 100 0.5	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 500 56 56 0.56 500 5.6	<section-header><section-header><section-header><text><text><text><text><text><text></text></text></text></text></text></text></section-header></section-header></section-header>
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg) Cadmium, Total Semivolatile Organic Compounds (mg/ Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(a)htracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)htracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a,h)anthracene Fluoranthene Indeno(1,2,3-cd)Pyrene Phenanthrene	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE 0 to 0.5 NE ND (g) 1.1476 0.375 NYSDEC Part 375 Restricted-Residential SCO p/kg) 1 1 1 0.33 100 0.5 100	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 500 56 56 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 5.00	<section-header><section-header><section-header></section-header></section-header></section-header>
Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg) Cadmium, Total Compound Semivolatile Organic Compounds (mg/ Benzo(a)anthracene Benzo(a)pyrene Benzo(a)hthracene Benzo(b)fluoranthene Benzo(a)hthracene Benzo(b)fluoranthene Benzo(a)hthracene Benzo(a)hthracene Benzo(a)hthracene Benzo(a)hthracene Benzo(a)hthracene Benzo(a)hthracene Benzo(a,h)anthracene Fluoranthene Indeno(1,2,3-cd)Pyrene	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE 1.1476 (g) 1.1476 NE 0.375 1 1 100 1 0.33 100 0.5	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 500 56 56 0.56 500 5.6	<section-header><section-header><section-header></section-header></section-header></section-header>
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Mercury, Total Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg) Cadmium, Total Compound Semivolatile Organic Compounds (mg/ Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)hnthracene Benzo(a)h)anthracene Fluoranthene Indeno(1,2,3-cd)Pyrene Phenanthrene Pyrene Polychlorinated Biphenyls (mg/kg) Total PCBs	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE 0 to 0.5 NE ND (g) 1.1476 0.375 NYSDEC Part 375 Restricted-Residential SCO p/kg) 1 1 1 0.33 100 0.5 100	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 5.00 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 500 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.00	<section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header>
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Mercury, Total Client Sample ID Lab Sample ID Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg) Cadmium, Total Semivolatile Organic Compounds (mg Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(a)hhanthracene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Polychlorinated Biphenyls (mg/kg) Total PCBs Metals (mg/kg) Barium, Total Cadmium, Total <td< td=""><td>SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE NE NE NE 1.1476</td><td>00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 5.00 5.7 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.7 5.00 5.7 5.00 5.00 5.00 5.7 5.00</td><td><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></td></td<>	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE NE NE NE 1.1476	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 5.00 5.7 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.7 5.00 5.7 5.00 5.00 5.00 5.7 5.00	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
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Mercury, Total Client Sample ID Lab Sample ID Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg) Cadmium, Total Semivolatile Organic Compounds (mg Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(a)hhanthracene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Polychlorinated Biphenyls (mg/kg) Total PCBs Metals (mg/kg) Barium, Total Cadmium, Total <td< td=""><td>SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE NE NE NE 1.1476</td><td>00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 5.00 5.7 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.7 5.00 5.7 5.00 5.00 5.00 5.7 5.00</td><td>SCALE IN FEED SCALE IN FEED <td< td=""></td<></td></td<>	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE NE NE NE 1.1476	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 5.00 5.7 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.7 5.00 5.7 5.00 5.00 5.00 5.7 5.00	SCALE IN FEED SCALE IN FEED <td< td=""></td<>
Mercury, Total Client Sample ID Lab Sample ID Sample Depth (ft.) Benzo(b)fluoranthene Indeno(1,2,3-cd)Pyrene Polychlorinated Biphenyls (mg/ Total PCBs Metals (mg/kg) Cadmium, Total Semivolatile Organic Compounds (mg Benzo(a)anthracene Benzo(a)apyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)h)anthracene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Polychlorinated Biphenyls (mg/kg) Total PCBs Metals (mg/kg) Barium, Total Cadmium, Total <t< td=""><td>SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE NE NE NE 1.1476</td><td>00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 5.00 5.7 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.7 5.00 5.7 5.00 5.00 5.00 5.7 5.00</td><td><section-header><section-header><section-header></section-header></section-header></section-header></td></t<>	SB-9-S L1320271-12 10/9/2013 0 to 0.5 NE ND (g) 1.1476 NE NE NE NE NE NE NE NE 1.1476	00 8 SB-9-2 L1320271-13 10/9/2013 2 1.2 0.8 J 5.159 4.9 Jse NYSDEC Part 375 Restricted Use Commercial SCO 5.6 1 5.6 5.00 5.7 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.6 5.00 5.7 5.00 5.7 5.00 5.00 5.00 5.7 5.00	<section-header><section-header><section-header></section-header></section-header></section-header>

6		7	8
		NOTEO	
Client Sample ID	SB-18-1	NOTES	
Lab Sample ID	L1320271-30	1. BASE MAP TAKEN FROM BING MA	PS AERIAL IMAGERY SERVICES, DATED 2013.
Sampling Date Sample Depth (ft.)	10/9/2013		OXIMATED AND IS BASED ON THE REVISED SOIL BORING
Semivolatile Organic Compou	nds (ma/ka)	LOCATIONS MAP, PREPARED BY N 2013.	IYC DEPARTMENT OF PARKS & RECREATION, DATED OCTOBER 8,
Benzo(a)anthracene	4.2		ARED TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL
Benzo(a)pyrene	4.2 3.2		75 TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK
Benzo(b)fluoranthene	3.9		S (NYCRR) PART 375 RESTRICTED USE RESTRICTED RESIDENTIAL
Indeno(1,2,3-cd)Pyrene	2.1 J		IAL SOIL CLEANUP OBJECTIVES (SCOs).
	2.10		CENTRATIONS EXCEEDING BOTH CRITERIA ARE SHOWN IN BOLD .
		6. ND = NOT DETECTED.	Service and the service of the servi
		7. NE = NO EXCEEDANCES.	
			Y IDENTIFIED AND THE ASSOCIATED NUMERICAL VAULE IS THE
		APPROXIMATE CONCENTRATION (VALUE.	OF THE ANALYTE IN THE SAMPLE. THIS IS AN ESTIMATED
Client Sample ID	SB-10-S		LTS FOR THE TWO COLUMNS EXCEEDS THE METHOD-SPECIFIED
Lab Sample ID	L1320271-14	CRITERIA.	
Sampling Date	10/9/2013		WO COLUMNS HAS BEEN REPORTED DUE TO OBVIOUS
Sample Depth (ft.)	0 to 0.5		
Semivolatile Organic Compou		11. mg/kg = MILLIGRAMS PER KILOGR	AIVI.
Benzo(a)anthracene	1.4		
Benzo(a)pyrene	1.2 J		
Benzo(b)fluoranthene	1.5		
Indeno(1,2,3-cd)Pyrene	0.83 J		
Client Sample ID			
Lab Sample ID	SB-4-S	A	
Sampling Date	L1320271-0-	4	
Sample Depth (ft.)	10/9/2013 0 to 0.5		
Metals (mg/kg)	0 10 0.5		
Copper, Total	3200		
Semivolatile Organic Compoun			
Indeno(1,2,3-cd)Pyrene	0.63		
	0.00		
Client Sample ID		SB-16-1	
Lab Sample ID	L1:	320271-26	LEGEND
Sampling Date	1	0/9/2013	- SITE BOUNDARY
Sample Depth (ft.)		1	
Polychlorinated Biphenyls (mg,	/kg)		SB-1 _ SOIL BORING LOCATION
Total PCBs		44.29	
Metals (mg/kg)			
Cadmium, Total		20	
Copper, Total		1100	
Lead, Total		2200	
Mercury, Total		9.8	
Client Sample ID	SB-9-S	SB-9-2	
Lab Sample ID	L1320271-12	L1320271-13	
Sampling Date	10/9/2013	10/9/2013	
Sample Depth (ft.)	0 to 0.5	2	
Benzo(b)fluoranthene	NE	1.2	SCALE IN FEET
Indeno(1,2,3-cd)Pyrene	ND	0.8 J	
Polychlorinated Biphenyls (mg/		•	
Total PCBs	1.1476	5.159	
Metals (mg/kg)			
Cadmium, Total	NE	4.9	
			21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, NY 10001
			T: 212.479.5400 F: 212.479.5444 www.langan.com
			NEW JERSEY NEW YORK VIRGINIA CALIFORNIA PENNSYLVANIA CONNECTICUT FLORIDA
			ABU DHABI ATHENS DOHA DUBAI ISTANBUL Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Compound	NYSDEC Part 375 Restrict	ed Use NYSDEC Part 375 Restricted	Langan Engineering and Environmental Services, Inc. Langan CT, Inc.
	Restricted-Residential	SCO Use Commercial SCO	Langan International LLC Collectively known as Langan
			Project
Semivolatile Organic Compounds (m Benzo(a)anthracene	IY/KY)	5.6	
Benzo(a)pyrene	1		SOIL INVESTIGATION
Benzo(b)fluoranthene	1	5.6	REPORT
Benzo(ghi)perylene	100	500	
Benzo(k)fluoranthene	1	56	SUNSET COVE PARK
Chrysene Dibenzo(a,h)anthracene		56	JUNJET COVE PAKK
Fluoranthene	0.33	0.56 500	QUEENS NEW YORK
Indeno(1,2,3-cd)Pyrene	0.5	5.6	Drawing Title
Phenanthrene	100	500	
Pyrene Polyablarinated Pinhanyla (mg/kg)	100	500	
Polychlorinated Biphenyls (mg/kg) Total PCBs	1	1	SOIL SAMPLE
Metals (mg/kg)		I	
Barium, Total	350	400	EXCEEDANCES MAP
Cadmium, Total	2.5	9.3	
Copper, Total	270	270	
Lead, Total Mercury, Total	400 0.81	1000 2.8	Project No. Drawing No.
	0.01	2.0	170220401
			Date 8 NOVEMBER 2013
			Scale
			Drawn By Checked By

Drawn By Checked By **SPL** DC Submission Date

8 NOVEMBER 2013

Filename: \\langan.com\data\NY\data4\170220401\Cadd Data - 170220401\2D-DesignFiles\D.Carrus\Borings_CAD - ANNOTATED3.dwg Date: 11/21/2013 Time: 14:13 User: dcarrus Style Table: Langan.stb Layout: ARCHD-SL

TABLES

Table 1Soil Boring and Sample Collection Summary
Sunset Cove ParkBroad Channel, Queens, New York
Langan Project No. 170220401

Location	Sample Name	Depth Interval (ft BGS)	Material Type	Organic Vapor Concentration (ppm)
		Soil Samples		
SB-1	SB-1-S	0.5	Sand	0.0
SB-2	SB-2-S	0.5	Sand with Organic Material	0.0
SB-3	SB-3-S	0.5	Sand and Gravel	0.0
SB-4	SB-4-S	0.5	Sand and Gravel	0.0
SB-5	SB-5-S	0.5	Fill	0.0
SB-6	SB-6-S	0.5	Fill	0.0
30-0	SB-6-3	3	Sand	0.0
SB-7	SB-7-1	1	Fill	0.0
50-7	SB-7-3	3	Sand	0.0
	SB-8-1	1	Fill	
SB-8	SB-8-3	3	Sand with Organic Material	0.0
	SB-9-S	0.5	FIII	
SB-9	SB-9-2	2	Sand with Organic Material	1.2
00.40	SB-10-S	0.5	Fill	0.0
SB-10	SB-10-2	2	Sand	0.0
CD 11	SB-11-S	0.5	Fill	0.0
SB-11	SB-11-2	2	Sand	0.0
CD 10	SB-12-1	1	Fill	0.0
SB-12	SB-12-3	3	Sand	0.0
	SB-13-1	1	Fill	
SB-13	SB-13-3	3	Sand with Organic Material	0.0
	SB-14-1	1	Fill	
SB-14	SB-14-3	3	Sand with Organic Material	0.0
	SB-15-1	1	Fill	
SB-15	SB-15-3	3	Sand with Organic Material	0.0
CD 10	SB-16-1	1	Fill	0.0
SB-16	SB-16-3	3	Sand	0.0
CD 17	SB-17-1	1	Fill	0.0
SB-17	SB-17-3	3	Gravel/Fill	0.0
CD 10	SB-18-1	1	Fill	25
SB-18	SB-18-3	3	Sand	3.5

Notes:

BGS = Below grade surface

ppm = Parts per million

All samples were collected on October 9, 2013, and analyzed for volatile organic compounds, semivolatile organic compounds, polychlorinated biphenyls, pesticides, and metals. Organic vapor concentrations measured with a photoionization detector.

Borings advanced in costal forest areas are shaded gray

Table 2a Soil Sample Detections Summary Soil Investigation Sunset Cove Park, Broad Channel Queens, New York Langan Project No. 170220401

Client Sample ID	NYSDEC Part 375	NYSDEC Part 375	SB-1-S	SB-2-S	SB-3-S	SB-4-S	SB-5-S	SB-6-1	SB-6-3	SB-7-1	SB-7-3	SB-8-1	SB-8-3
Lab Sample ID Sampling Date Sample Depth (ft.)	Restricted Use Restricted- Residential SCO	Restricted Use Commercial SCO	L1320271-01 L1320271-02 10/9/2013 10/9/2013 0 to 0.5 0 to 0.5		L1320271-03 10/9/2013 0 to 0.5	10/9/2013 10/9/2013		L1320271-06 10/9/2013 1	L1320271-07 10/9/2013 3	L1320271-08 10/9/2013 1	L1320271-09 10/9/2013 3	L1320271-10 10/9/2013 1	L1320271-11 10/9/2013 3
Volatile Organic Compounds (0 0/												
2-Butanone	100	500	0.013 U	1.2 U	0.014 U	0.71 J	0.013 U	0.011 U	0.0025 J	0.016 U	0.012 U	0.0056 J	0.012 U
4-Ethyltoluene	~	~	0.0051 U	0.47 U	0.0055 U	0.031 J	0.0052 U	0.0045 U	0.0047 U	0.0065 U	0.0047 U	0.0041 U	0.0047 U
Acetone	100	500	0.013 U	1.2 U	0.014 U	1.2 U	0.013 U	0.013	0.01 J	0.057	0.0053 J	0.043	0.0041 J
Carbon disulfide	~	~	0.013 U	1.2 U	0.014 U	1.2 U	0.013 U	0.0049 J	0.0057 J	0.016 U	0.0042 J	0.0026 J	0.016
Methylene chloride	100	500	0.013 U	0.45 J	0.014 U	0.42 J	0.013 U	0.011 U	0.012 U	0.016 U	0.012 U	0.01 U	0.012 U
Naphthalene	100	500	0.0064 U	0.59 U	0.0068 U	0.58 U	0.0066 U	0.0056 U	0.0058 U	0.0081 U	0.0058 U	0.0045 J	0.0059 U
o-Xylene	~	~	0.0026 U	0.24 U	0.0027 U	0.074 J	0.0026 U	0.0022 U	0.0023 U	0.0032 U	0.0023 U	0.002 U	0.0024 U
p/m-Xylene	~	~	0.0026 U	0.24 U	0.0027 U	0.1 J	0.0026 U	0.0022 U	0.0023 U	0.0032 U	0.0023 U	0.002 U	0.0024 U
p-lsopropyltoluene	~	~	0.0013 U	0.12 U	0.0014 U	0.12 U	0.0013 U	0.0011 U	0.0012 U	0.0016 U	0.0012 U	0.001 U	0.0012 U
Styrene	~	~	0.0026 U	0.24 U	0.0027 U	1.3	0.0026 U	0.0022 U	0.0023 U	0.0032 U	0.0023 U	0.002 U	0.0024 U
Tetrachloroethene	19	150	0.0013 U	0.12 U	0.0014 U	0.12 U	0.0013 U	0.0011 U	0.0012 U	0.0016 U	0.0012 U	0.00045 J	0.0012 U
Toluene	100	500	0.0019 U	0.18 U	0.002 U	1.4	0.002 U	0.00026 J	0.0018 U	0.0024 U	0.0018 U	0.0015 U	0.0018 U
Semivolatile Organic Compou	nds (mg/kg)												
2-Methylnaphthalene	~	~	0.21 U	0.65 U	0.2 U	0.85 U	0.84 U	0.9 U	0.25 U	1.2	0.25 U	7.9 U	0.25 U
Acenaphthene	100	500	0.14 U	0.43 U	0.13 U	0.56 U	0.56 U	1.2	0.17 U	2.8	0.16 U	1.7 J	0.16 U
Acenaphthylene	100	500	0.14 U	0.43 U	0.13 U	0.56 U	0.56 U	0.3 J	0.17 U	1.5	0.16 U	5.2 U	0.16 U
Acetophenone	~	~	0.18 U	0.54 U	0.17 U	0.71 U	0.7 U	0.75 U	0.21 U	0.9 U	0.2 U	6.6 U	0.21 U
Anthracene	100	500	0.11 U	0.32 U	0.1 U	0.22 J	0.15 J	8.4	0.12 U	7.8	0.12 U	2.4 J	0.12 U
Benzo(a)anthracene	1	5.6	0.11 U	0.12 J	0.1 U	0.88	0.43	<u>16</u>	0.12 U	<u>14</u>	0.12 U	<u>5.8</u>	0.12 U
Benzo(a)pyrene	1	1	0.14 U	0.43 U	0.13 U	0.9	0.4 J	14	0.17 U	11	0.16 U	5.4	0.16 U
Benzo(b)fluoranthene	1	5.6	0.11 U	0.16 J	0.1 U	1.1	0.53	18	0.12 U	16	0.12 U	6.5	0.12 U
Benzo(ghi)perylene	100	500	0.14 U	0.43 U	0.13 U	0.6	0.24 J	8.3	0.17 U	6	0.16 U	3.1 J	0.16 U
Benzo(k)fluoranthene	3.9	56	0.11 U	0.32 U	0.1 U	0.5	0.19 J	6.3	0.12 U	5.6	0.12 U	2.7 J	0.12 U
Biphenyl	~	~	0.4 U	1.2 U	0.38 U	1.6 U	1.6 U	1.7 U	0.48 U	0.34 J	0.47 U	15 U	0.47 U
Bis(2-Ethylhexyl)phthalate	~	~	0.18 U	0.54 U	0.17 U	1	0.7 U	0.75 U	0.21 U	2.8	0.2 U	38	0.089 J
Butyl benzyl phthalate	~	~	0.18 U	0.12 J	0.17 U	0.9	0.7 U	0.75 U	0.21 U	9.5	0.2 U	27	0.21 U
Carbazole	~	~	0.18 U	0.54 U	0.17 U	0.71 U	0.7 U	0.47 J	0.21 U	6.2	0.2 U	6.6 U	0.21 U
Chrysene	3.9	56	0.10 U	0.16 J	0.1 U	0.89	0.42	15	0.12 U	14	0.12 U	5.7	0.12 U
Dibenzo(a,h)anthracene	0.33	0.56	0.11 U	0.32 U	0.1 U	0.14 J	0.42 U	2.2	0.12 U	2	0.12 U	3.9 U	0.12 U
Dimethyl phthalate	~	~	0.11 U	0.52 0	0.17 U	0.84	0.7 U	0.75 U	0.21 U	5.3	0.12 U	6.6 U	0.12 U
Di-n-butylphthalate	~	~	0.18 U	0.54 U	0.17 U	0.16 J	0.7 U	0.75 U	0.21 U	0.9 U	0.2 U	6.6 U	0.21 U
Di-n-octylphthalate	~	~	0.18 U	0.54 U	0.17 U	0.70 J	0.7 U	0.75 U	0.21 U	0.9 U	0.2 U	6.6 U	0.21 U
Fluoranthene	100	500	0.10 U	0.34 0 0.26 J	0.1 U	1.6	0.83	42	0.12 U	32	0.12 U	11	0.12 U
Fluorene	100	500	0.11 U	0.54 U	0.17 U	0.71 U	0.03 0.7 U	2	0.12 U	4.3	0.12 U	6.6 U	0.12 0 0.21 U
Indeno(1,2,3-cd)Pyrene	0.5	5.6	0.10 U	0.43 U	0.17 U	0.63	0.26 J	9.6	0.17 U	7.1	0.16 U	3.4 J	0.16 U
Naphthalene	100	500	0.14 U	0.43 0 0.54 U	0.13 U	0.71 U	0.20 J	0.3 J	0.17 U	2.7	0.10 U	6.6 U	0.10 U
Phenanthrene	100	500	0.18 U	0.34 0 0.11 J	0.1 U	0.65	0.52	22	0.21 U	32	0.12 U	7.9	0.12 U
Pyrene	100	500	0.11 U	0.11 J	0.1 U	1.4	0.52	22 28	0.12 U	24	0.12 U	8.7	0.12 U
Total SCOVs	~	000	0.11 0	1.16	0.1 0	12.41	4.69	194.07	0.12 0	24 208.14	0.12 0	129.3	0.089
Notes and Qualifiers:	~	~	U		U Notes and Qualifiers	12.41	4.03	134.07	U	200.14	U	123.3	0.003

Notes and Qualifiers:

1. Grab soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential and Restricted Use Commercial Soil Cleanup Objectives (SCO).

2. Only compounds with detections are shown in the table.

3. NYSDEC Part 375 Restricted Use Restricted-Residential SCO exceedances are highlighted and bolded.

4. NYSDEC Part 375 Restricted Use Commercial SCO exceedances are underlined.

Notes and Qualifiers:

5.Method Detection Limits (MDL) above any of the three NYSDEC Part 375 SCO standards are italicized.

6. mg/kg = milligrams per kilogram

7. ~ = Criteria not available

8. J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample. 9. U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL or the sample concentration for results impacted by blank contamination.

Table 2a Soil Sample Detections Summary Soil Investigation Sunset Cove Park, Broad Channel Queens, New York Langan Project No. 170220401

Client Sample ID	NYSDEC Part 375		SB-9-S	SB-9-2	SB-10-S	SB-10-2	SB-11-S	SB-19-S (Dup of SB-11-S)	SB-11-2	SB-12-1	SB-12-3	SB-13-1	SB-13-3
Lab Sample ID Sampling Date Sample Depth (ft.)	Restricted Use Restricted- Residential SCO	NYSDEC Part 375 Restricted Use Commercial SCO	L1320271-12 10/9/2013 0 to 0.5	L1320271-13 10/9/2013 2	L1320271-14 10/9/2013 0 to 0.5	L1320271-15 10/9/2013 2	L1320271-16 10/9/2013 0 to 0.5	L1320271-32 10/9/2013 0 to 0.5	L1320271-17 10/9/2013 2	L1320271-18 10/9/2013 1	L1320271-19 10/9/2013 3	L1320271-20 10/9/2013 1	L1320271-21 10/9/2013 3
Volatile Organic Compounds ((mg/kg)												
2-Butanone	100	500	0.01 U	0.017 U	0.012 U	0.011 U	0.012 U	0.01 U	0.0015 J	0.0097 U	0.71 U	0.011 U	0.011 U
4-Ethyltoluene	~	~	0.004 U	0.007 U	0.0049 U	0.0044 U	0.0047 U	0.0042 U	0.0045 U	0.0039 U	0.28 U	0.0043 U	0.0044 U
Acetone	100	500	0.01 U	0.0066 J	0.012 U	0.014	0.0052 J	0.01 U	0.008 J	0.0097 U	0.71 U	0.0059 J	0.018
Carbon disulfide	~	~	0.01 U	0.017 U	0.012 U	0.011 U	0.012 U	0.01 U	0.011 U	0.0097 U	0.71 U	0.011 U	0.011 U
Methylene chloride	100	500	0.01 U	0.017 U	0.012 U	0.011 U	0.012 U		0.011 U	0.0097 U	0.2 J	0.011 U	0.011 U
Naphthalene	100	500	0.005 U	0.0019 J	0.0062 U	0.0055 U	0.0059 U		0.0056 U	0.0048 U	2.9	0.0053 U	0.0055 U
o-Xylene	~	~	0.002 U	0.0035 U	0.0025 U	0.0022 U	0.0024 U	0.0021 U	0.0022 U	0.0019 U	0.14 U	0.0021 U	0.0022 U
p/m-Xylene	~	~	0.002 U	0.0035 U	0.0025 U	0.0022 U	0.0024 U		0.0022 U	0.0019 U	0.14 U	0.0021 U	0.0022 U
p-lsopropyltoluene	~	~	0.00098 J	0.0017 U	0.0012 U	0.0011 U	0.0012 U		0.0011 U	0.00097 U	0.071 U	0.0011 U	0.0011 U
Styrene	~	~	0.00038 J	0.0035 U	0.0025 U	0.0022 U	0.0024 U		0.0022 U	0.0019 U	0.14 U	0.0021 U	0.0022 U
Tetrachloroethene	19	150	0.001 U	0.00067 J	0.00042 J	0.0011 U	0.0012 U		0.0011 U	0.00097 U	0.071 U	0.0011 U	0.0011 U
Toluene	100	500	0.0015 U	0.00046 J	0.0018 U	0.0016 U	0.0018 U	0.0016 U	0.0017 U	0.0014 U	0.11 U	0.0016 U	0.0017 U
Semivolatile Organic Compou	ınds (mg/kg)												
2-Methylnaphthalene	~	~	1.3 U	-	2.7 U	0.24 U	1.3 U		0.24 U	0.91 U	0.24 U	0.63 U	0.24 U
Acenaphthene	100	500	0.86 U	0.28 J	1.8 U	0.16 U	0.88 U		0.043 J	0.61 U	0.16 U	0.42 U	0.16 U
Acenaphthylene	100	500	0.86 U	0.32 J	1.8 U	0.16 U	0.88 U		0.064 J	0.61 U	0.16 U	0.42 U	0.16 U
Acetophenone	~	~	1.1 U	1.2 U	2.2 U	0.2 U	1.1 U		0.2 U	0.32 J	0.2 U	0.53 U	0.2 U
Anthracene	100	500	0.64 U	0.55 J	0.61 J	0.12 U	0.29 J	0.12 0	0.11 J	0.15 J	0.12 U	0.14 J	0.12 U
Benzo(a)anthracene	1	5.6	0.34 J	0.97	1.4	0.12 U	0.68	0.34 J	0.24	0.32 J	0.058 J	0.54	0.12 U
Benzo(a)pyrene	1	1	0.33 J	1	<u>1.2</u> J	0.16 U	0.6 J		0.23	0.29 J	0.16 U	0.54	0.16 U
Benzo(b)fluoranthene	1	5.6	0.39 J	1.2	1.5	0.12 U	0.9	0.53	0.32	0.38 J	0.046 J	0.79	0.12 U
Benzo(ghi)perylene	100	500	0.28 J	0.84 J	0.8 J	0.16 U	0.43 J		0.18	0.22 J	0.16 U	0.44	0.16 U
Benzo(k)fluoranthene	3.9	56	0.64 U	0.51 J	0.55 J	0.12 U	0.32 J		0.12	0.2 J	0.12 U	0.29 J	0.12 U
Biphenyl	~	~	2.4 U	2.7 U	5.1 U	0.47 U	2.5 U		0.45 U	1.7 U	0.46 U	1.2 U	0.45 U
Bis(2-Ethylhexyl)phthalate	~	~	0.34 J	5.6	2 J	0.2 U	1.1 U	-	0.2 U	0.53 J	0.2 U	4	0.2 U
Butyl benzyl phthalate	~	~	0.51 J	12	2.2 U	0.2 U	1.1 U		0.2 U	0.76 U	0.2 U	5.1	0.2 U
Carbazole	~	~	1.1 U	1.2 U	2.2 U	0.2 U	1.1 U		0.052 J	0.76 U	0.2 U	0.53 U	0.2 U
Chrysene	3.9	56	0.36 J	1	1.5	0.12 U	0.79	0.43	0.28	0.34 J	0.065 J	0.57	0.12 U
Dibenzo(a,h)anthracene	0.33	0.56	0.64 U 1.1 U	0.71 U	<i>1.3</i> U	0.12 U	0.66 U		0.043 J 0.2 U	0.45 U	0.12 U 0.2 U	0.32 U	0.12 U
Dimethyl phthalate	~	~	1.1 0	1.2 U	2.2 U	0.2 U	1.1 U		012 0	14	0.2 0	0.53 U	0.2 U
Di-n-butylphthalate	~	~	1.1 U 1.1 U	0.45 J	2.2 U 2.2 U	0.2 U	1.1 U		0.2 U 0.2 U	0.38 J	0.36 0.2 U	0.22 J	0.2 U 0.2 U
Di-n-octylphthalate	~ 100	~ F00		1.2 U	2.2 0	0.2 U 0.12 U	1.1 U		• •	0.76 U	• •	0.45 J	
Fluoranthene	100 100	500 500	0.66 1.1 U	1.9 1.2 U	3 2.2 U	0.1.2 0	1.8 1.1 U	0.66 0.7 U	0.53 0.2 U	0.68 0.76 U	0.084 J 0.2 U	0.97 0.53 U	
Fluorene	0.5	500		1.2 U	2.2 U 0.83 J	• •	-		0.2 0		• •		-
Indeno(1,2,3-cd)Pyrene Naphthalene	100	5.6 500	0.86 U 11 U	1.2 U	2.2 U	0.16 U 0.2 U	0110 0	0101	0.18 0.2 U	0.2 J 0.76 U	0.16 U 0.16 J	0.38 J 0.53 U	0.16 U 0.2 U
			0.57 J				1.1 U 2	0.7 U 0.27 J	• •	0.76 U 0.53	0.16 J 0.059 J		0.2 U 0.12 U
Phenanthrene	100	500		1.6	2.8 3	0.12 U	_		0.4			0.42	
Pyrene	100	500	0.59 J	1.6	-	0.12 U 0	1.5 9.74	0.62	0.43	0.5	0.12	0.78	0.12 U
Total SCOVs	~	~	4.37	30.62	19.19	U	9.74	6.83	3.222	19.04	0.952	15.63	U

Notes and Qualifiers:

1. Grab soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential and Restricted Use Commercial Soil Cleanup Objectives (SCO).

2. Only compounds with detections are shown in the table.

3. NYSDEC Part 375 Restricted Use Restricted-Residential SCO exceedances are highlighted and bolded.

4. NYSDEC Part 375 Restricted Use Commercial SCO exceedances are underlined.

Notes and Qualifiers:

5.Method Detection Limits (MDL) above any of the three NYSDEC Part 375 SCO standards are italicized.

6. mg/kg = milligrams per kilogram

7. ~ = Criteria not available

8. ND = Not Detected

9. J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

10. U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL or the sample concentration for results impacted by blank contamination.

11. P - The RPD between the results for the two columns exceeds the method-specified criteria.

Table 2a Soil Sample Detections Summary Soil Investigation Sunset Cove Park, Broad Channel Queens, New York Langan Project No. 170220401

Client Sample ID	NYSDEC Part 375	NYSDEC Part 375	SB-14-1	SB-14-3	SB-15-1	SB-15-3	SB-16-1	SB-16-3	SB-17-1	SB-17-3	SB-18-1	SB-20-S (Dup of SB-18-1)	SB-18-3
Lab Sample ID	Restricted Use	Restricted Use	L1320271-22	L1320271-23	L1320271-24	L1320271-25	L1320271-26	L1320271-27	L1320271-28	L1320271-29	L1320271-30	L1320271-33	L1320271-31
Sampling Date	Restricted-	Commercial SCO	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013	10/9/2013
Sample Depth (ft.)	Residential SCO		1	3	1	3	1	3	1	3	1	0 to 0.5	3
Volatile Organic Compounds ((mg/kg)												
2-Butanone	100	500	0.02 L		0.055	0.012 U	0.016 U	0.014 U	0.68 U	0.016 U	0.011 U		0.011
4-Ethyltoluene	~	~	0.0079 l	J 0.0061 U	0.0041 U	0.0048 U	0.0063 U	0.0058 U	0.27 U	0.0066 U	0.0042 U	0.0041 U	0.0045 U
Acetone	100	500	0.007	J 0.0081 J	0.26 E	0.0042 J	0.016 U	0.01 J	0.68 U	0.016 U	0.0078 J	0.01 U	0.06
Carbon disulfide	~	~	0.013	J 0.015 U	0.0075 J	0.0098 J	0.016 U	0.0097 J	0.68 U	0.016 U	0.011 U	0.01 U	0.008 J
Methylene chloride	100	500	0.02 l	J 0.0046 J	0.01 U	0.012 U	0.016 U	0.014 U	0.2 J	0.0045 J	0.0029 J	0.01 U	0.011 U
Naphthalene	100	500	0.0099 l	J 0.0076 U	0.0051 U	0.006 U	0.0079 U	0.0072 U	1.9	0.023	0.0053 U	0.0051 U	0.0056 U
o-Xylene	~	~	0.004 l	J 0.003 U	0.002 U	0.0024 U	0.0032 U	0.0029 U	0.14 U	0.0033 U	0.0021 U	0.002 U	0.0022 U
p/m-Xylene	~	~	0.004 l	J 0.003 U	0.002 U	0.0024 U	0.0032 U	0.0029 U	0.14 U	0.0033 U	0.0021 U	0.002 U	0.0022 U
p-Isopropyltoluene	~	~	0.002 l	J 0.0058	0.001 U	0.0012 U	0.0016 U	0.0014 U	0.068 U	0.0016 U	0.0011 U	0.001 U	0.0011 U
Styrene	~	~	0.004 l	J 0.003 U	0.002 U	0.0024 U	0.0032 U	0.0029 U	0.14 U	0.0033 U	0.0021 U	0.002 U	0.0022 U
Tetrachloroethene	19	150	0.002 l	J 0.0015 U	0.0014	0.0012 U	0.0011 J	0.0014 U	0.068 U	0.0016 U	0.0011 U	0.001 U	0.0011 U
Toluene	100	500	0.003 l	J 0.0023 U	0.0015 U	0.0018 U	0.0024 U	0.0022 U	0.1 U	0.0025 U	0.0016 U	0.0015 U	0.0017 U
Semivolatile Organic Compour	ınds (mg/kg)												
2-Methylnaphthalene	~	~	4.4 L	J 10 U	0.91 U	0.25 U	4.4 U	0.3 U	1.3 J	6.6	4.9 U	1.1 U	0.24 U
Acenaphthene	100	500	2.9 l	J 5.9 J	0.61 U	0.16 U	2.9 U	0.2 U	5.7	18	3.2 U	0.74 U	0.16 U
Acenaphthylene	100	500	2.9 l	J 9	0.61 U	0.16 U	2.9 U	0.2 U	3	5.9	3.2 U	0.2 J	0.16 U
Acetophenone	~	~	3.7 l	J 8.7 U	0.76 U	0.2 U	3.6 U	0.25 U	2.1 U	2.1 U	4.1 U	0.93 U	0.2 U
Anthracene	100	500	2.2 L	J 23	0.16 J	0.12 U	2.2 U	0.15 U	21	56	1.3 J	0.24 J	0.072 J
Benzo(a)anthracene	1	5.6	<i>2.2</i> l	5 <u>67</u>	0.64	0.12 U	2.2 U	0.15 U	<u>46</u>	<u>100</u>	4.2	0.74	0.16
Benzo(a)pyrene	1	1	<i>2.9</i> l	J <u>54</u>	0.61	0.16 U	<i>2.9</i> U	0.2 U	<u>42</u>	<u>90</u>	<u>3.2</u>	0.71 J	0.12 J
Benzo(b)fluoranthene	1	5.6	<i>2.2</i> l	J <u>70</u>	0.83	0.12 U	2.2 U	0.15 U	<u>54</u>	<u>120</u>	3.9	0.91	0.16
Benzo(ghi)perylene	100	500	0.76	J 30	0.43 J	0.16 U	2.9 U	0.2 U	23	44	2 J	0.44 J	0.07 J
Benzo(k)fluoranthene	3.9	56	2.2 l	J 32	0.23 J	0.12 U	2.2 U	0.15 U	17	45	1.6 J	0.35 J	0.068 J
Biphenyl	~	~	8.4 l	J 20 U	1.7 U	0.47 U	8.3 U	0.56 U	4.7 U	2.7 J	9.3 U	2.1 U	0.46 U
Bis(2-Ethylhexyl)phthalate	~	~	66	240	1.5	0.1 J	53	0.25 U	2.1 U	2.1 U	4.1 U	0.62 J	0.2 U
Butyl benzyl phthalate	~	~	37	88	3.7	0.081 J	27	0.25 U	2.1 U	2.1 U	4.1 U	0.93 U	0.2 U
Carbazole	~	~	3.7 l	J 10	0.76 U	0.2 U	3.6 U	0.25 U	6.4	14	4.1 U	0.93 U	0.2 U
Chrysene	3.9	56	2.2 l	J <u>64</u>	0.76	0.12 U	2.2 U	0.15 U	42	<u>81</u>	3.7	0.76	0.16
Dibenzo(a,h)anthracene	0.33	0.56	<i>2.2</i> l	J <u>9.1</u>	0.46 U	0.12 U	<i>2.2</i> U	0.15 U	<u>6.5</u>	<u>16</u>	2.4 U	0.56 U	0.12 U
Dimethyl phthalate	~	~	3.7 l	J 8.7 U	0.76 U	0.2 U	3.6 U	0.25 U	2.1 U	2.1 U	4.1 U	0.93 U	0.2 U
Di-n-butylphthalate	~	~	27	3.6 J	0.76 U	0.2 U	3.6 U	0.25 U	2.1 U	2.1 U	4.1 U	0.93 U	0.2 U
Di-n-octylphthalate	~	~	4.3	8.7 U	0.76 U	0.2 U	20	0.25 U	2.1 U	2.1 U	4.1 U	0.93 U	0.2 U
Fluoranthene	100	500	2.2 L	J 150	1.3	0.12 U	2.2 U	0.15 U	110	220	8.6	1.5	0.37
Fluorene	100	500	3.7 l	J 7.7 J	0.76 U	0.2 U	3.6 U	0.25 U	7.8	27	4.1 U	0.93 U	0.2 U
Indeno(1,2,3-cd)Pyrene	0.5	5.6	<i>2.9</i> l	J <u>34</u>	0.45 J	0.16 U	<i>2.9</i> U	0.2 U	<u>25</u>	<u>53</u>	2.1 J	0.48 J	0.078 J
Naphthalene	100	500	3.7 l	J 8.7 U	0.76 U	0.2 U	3.6 U	0.25 U	2.4	9.2	4.1 U	0.93 U	0.2 U
Phenanthrene	100	500	2.2 L	J 100	0.48	0.12 U	2.2 U	0.15 U	73	200	6	0.86	0.24
Pyrene	100	500	2.2 L	J 110	1.1	0.12 U	2.2 U	0.15 U	83	170	6.8	1.2	0.27
Total SCOVs	~	~	135.06	1107.3	12.19	0.181	100	0	569.1	1278.4	43.4	9.01	1.768

Notes and Qualifiers:

1. Grab soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential and Restricted Use Commercial Soil Cleanup Objectives (SCO).

2. Only compounds with detections are shown in the table.

3. NYSDEC Part 375 Restricted Use Restricted-Residential SCO exceedances are highlighted and bolded.

4. NYSDEC Part 375 Restricted Use Commercial SCO exceedances are underlined.

Notes and Qualifiers:

5.Method Detection Limits (MDL) above any of the three NYSDEC Part 375 SCO standards are italicized.

6. mg/kg = milligrams per kilogram

7. ~ = Criteria not available

8. ND = Not Detected

9. J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

10. U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL or the sample concentration for results impacted by blank contamination.

11. P - The RPD between the results for the two columns exceeds the method-specified criteria.

Table 2b Soil Sample Detections Summary Soil Investigation Sunset Cove Park, Broad Channel Queens, New York Langan Project No. 170220401

Polychlorinated Biphenyls (mg/k Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1268 Total PCBs Pesticides (mg/kg) Endrin Endrin ketone Dibenzofuran	~ ~ 1 11 ~	~ ~ ~ 1 89	0.0345 0.0345 0.0345 0.0345 ND 0.000698	U U U U	0.0534 0.0534 0.0534 0.0534 ND	U U U U	0.0319 0.0319 0.0319	U U	0.0341 0.304	U	0.0343	U	0.423				0.012		0.0200	U	0.368 U	0.0401 U
Aroclor 1254 Aroclor 1260 Aroclor 1268 Total PCBs Pesticides (mg/kg) Endrin Endrin ketone	~	~ ~ ~ 1 89	0.0345 0.0345 0.0345 ND	U U	0.0534 0.0534 0.0534	U U	0.0319	U U		U	0.0343		0 / 23						0 0000		0.368 11	0.0401 11
Aroclor 1260 Aroclor 1268 Total PCBs Pesticides (mg/kg) Endrin Endrin ketone	~	~ ~ 1 89	0.0345 0.0345 ND	Ŭ	0.0534 0.0534	Ŭ		U	0.304			0				U	0.913		0.0399	Ŭ		
Aroclor 1268 Total PCBs Pesticides (mg/kg) Endrin Endrin ketone	~	~ ~ 1 89	0.0345 ND	-	0.0534	-	0.0319				0.0881		0.308			U	0.835		0.0399	U	2.35	0.0401 U
Total PCBs Pesticides (mg/kg) Endrin Endrin ketone	~	~ 1 89	ND	U		U		U	0.112		0.0343	U	0.102			U	0.238		0.0399	U	0.368 U	0.0401 U
Pesticides (mg/kg) Endrin Endrin ketone	~	1 89			ND	-	0.0319	U	0.0341	U	0.0343	U	0.0363	U		U	0.086	U	0.0399	U	0.368 U	010101 0
Endrin Endrin ketone	~	89	0 000692				ND		0.416		0.0881		0.833		ND		<u>1.986</u>		ND		<u>2.35</u>	ND
Endrin ketone	~	89	0 000692																			
				U	0.00108	U	0.000666	U	0.154		0.149		0.168			U	0.000873	U	0.000816	U	0.12	0.00081 U
Dibenzofuran		~	0.00168	U	0.0026	U	0.0016	U	0.0167	U	0.0168	U	0.0175	U	0.0019	U	0.0021	U	0.00196	U	0.0172 U	0.00194 U
2.00.120.01011	59	350	0.18	U	0.54	U	0.17	U	0.71	U	0.7	U	0.8		0.21	U	3		0.2	U	6.6 U	0.21 U
Dieldrin	0.2	1.4	0.00105	U	0.00162	U	0.000998	U	0.0104	U	0.024		0.0261		0.00118	U	0.00131	U	0.00122	U	0.0108 U	0.00121 U
4,4'-DDE	8.9	62	0.000558	J	0.0186		0.000599	J	0.0167	U	0.0168	U	0.0175	U	0.00406		0.0021	U	0.00196	U	0.0172 U	0.00194 U
4,4'-DDD	13	92	0.00168	U	0.0128		0.0016	U	0.0167	U	0.0168	U	0.0175	U	0.0121		0.0158		0.00196	U	0.0172 U	0.00194 U
4,4'-DDT	7.9	47	0.00182	J	0.0206		0.003	U	0.203		0.2		0.218		0.00356	U	0.0512	PI	0.00367	U	0.242	0.00364 U
cis-Chlordane	4.2	24	0.00209	U	0.00325	U	0.002	U	0.0209	U	0.0211	U	0.0218	U	0.00237	U	0.00262	U	0.00245	U	0.011 J	0.00243 U
trans-Chlordane	~	~	0.00209	U	0.00325	U	0.002	U	0.0209	U	0.0211	U	0.0218	U	0.00237	U	0.00262	U	0.00245	U	0.0215 U	0.00243 U
Chlordane	~	~	0.0136	U	0.0211	U	0.013	U	0.136	U	0.137	U	0.142	U	0.0154	U	0.017	U	0.0159	U	0.14 U	0.0158 U
Herbicides (mg/kg)																						
Herbicides	~	~	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	ND
Metals (mg/kg)																						
Arsenic, Total	16	16	0.4	J	1.5		0.56		3.8		4.6		3.6		2.3		5.2		0.32	J	12	1.5
Barium, Total	400	400	4.3		5.8		3.7		62		47		100		12		81		7.3		270	18
Beryllium, Total	72	590	0.21	U	0.07	J	0.2	U	0.14	J	0.18	J	0.47		0.05	J	0.16	J	0.24	U	0.16 J	0.24 U
Cadmium, Total	4.3	9.3	0.08	J	0.13	J	0.03	J	2.5		0.68		1		0.34	J	1.3		0.1	J	14	0.27 J
Chromium, Trivalent	180	1500	2.2		8.4		2.1		11		12		17		6.6	_	22		1.7		61	3.9
Chromium, Hexavalent	110	400	0.86	U	1.3	U	0.81	U	0.86	U	0.51	J	0.54	J	1	U	1.1	U	0.99	U	0.91 U	1 U
Copper, Total	270	270	3.5	-	15	-	2.9		3200	-	89	-	82	-	24		460	-	21		710	9.9
Lead, Total	400	1000	8.3		98		27		270	_	110		150		60		390		7		760	23
Manganese, Total	2000	10000	13		28		8.1		140		170		210		32		93		8.1		330	21
Mercury, Total	0.81	2.8	0.08	U	0.12	U	0.07	U	0.18		0.41		0.09	U		U	0.28		0.09	U	0.69	0.1 U
Nickel, Total	310	310	1.1	Ŭ	4.6	Ŭ	0.84	J	21		11		18	Ĩ	6	-	28		1.4	-	250	3.5
Selenium. Total	180	1500	0.83	U	0.21	J	0.78	Ŭ	0.21	J	0.34		0.44		0.46	J	1	U	0.96	U	0.36 J	0.95 U
Silver, Total	180	1500	0.42	Ŭ	0.65	Ŭ	0.39	ŭ	0.49	Ŭ	0.18		0.11	Ĵ	0.18	J	0.18	J	0.48	Ŭ	0.69	0.48 U
Zinc, Total	10000	10000	12	Ŭ	89	Ŭ	5.5	Ŭ	6000		100	Ŭ	410	Ĭ	33	Ĭ	690	Ŭ	51	Ŭ	5400	97
General Chemistry	10000	10000	12		00		0.0		0000		100		-10				000		01	1	5-100	
Solids, Total (%)	~	~	92.8	1	60.1		98.9	1	92.8	1	92.8		88.6	T	79.3		73.7	1	80.8		87.5	78.6
Cyanide, Total	27	27	52.0 ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	ND

Notes and Qualifiers:

1. Grab soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New

York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Restricted-

Residential and Restricted Use Commercial Soil Cleanup Objectives (SCO).

2. Only compounds with detections are shown in the table.

3. NYSDEC Part 375 Restricted Use Restricted-Residential SCO exceedances are highlighted and bolded.

4. NYSDEC Part 375 Restricted Use Commercial SCO exceedances are underlined.

Notes and Qualifiers:

5.Method Detection Limits (MDL) above any of the three NYSDEC Part 375 SCO standards are italicized.

6. mg/kg = milligrams per kilogram

7. ~ = Criteria not available

8. ND = Not Detected

9. J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

10. U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL or the sample concentration for results impacted by blank contamination.

11. P - The RPD between the results for the two columns exceeds the method-specified criteria.

Table 2b Soil Sample Detections Summary Soil Investigation Sunset Cove Park, Broad Channel Queens, New York Langan Project No. 170220401

Ancode 1784 0.285 1.6 0.0388 J 0.0388 U 0.0212 J 0.118 0.0382 U 1.5 0.187 0.478	Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.)	NYSDEC Part 375 Restricted Use Restricted- Residential SCO	NYSDEC Part 375 Restricted Use Commercial SCO	SB-9-S L1320271-12 10/9/2013 0 to 0.5	SB-9-2 L1320271-13 10/9/2013 2	SB-10-S L1320271-14 10/9/2013 0 to 0.5	SB-10-2 L1320271-15 10/9/2013 2	SB-11-S L1320271-16 10/9/2013 0 to 0.5	SB-19-S (Dup of SB-11-S) L1320271-32 10/9/2013 0 to 0.5	SB-11-2 L1320271-17 10/9/2013 2	SB-12-1 L1320271-18 10/9/2013 1	SB-12-3 L1320271-19 10/9/2013 3	SB-13-1 L1320271-20 10/9/2013 1	SB-13-3 L1320271-21 10/9/2013 3
Accols 1261 - - 0.255 1.0 0.0385 J 0.0385 U 0.018 J 0.0381 U 0.0381 <		g/kg)												
Accord r 280 - - 0.245 0.549 0.049 J 0.0389 U 0.0181 J 0.0471 0.0471 0.0478 U 0.0389 U 0.0181 J 0.0389 U 0.0389 U 0.0381 U 0.0471 0.0381 U 0.0381 U 0.0471 0.0471 U 0.0391 U 0.0473 U 0.0471 U 0.0171 U 0.0171 U 0.00813 U 0.0184 U 0.0178 U 0.0171 U 0.0171<		~	~											
Ancelor 128		~	~											
Trans PCBs 1 1.02 5.59 0.037 J ND 0.033 J 0.242 0.647 2.021 0.686 3.786 ND Endide terms - - 0.0175 0.003825 U 0.0154 U 0.0159 U 0.0178 U 0.00176 U 0.001767 U 0.00176 U 0.001767 U 0.001767 U 0.001767 U 0.00176 U 0.00176 U 0.00176 U 0.001767 U 0.001767 U 0.00176 U		~	~											
Perform Intervent		~	~											
Indivision 11 89 0.13 0.143 0.175 0.0078 U 0.1164 U 0.0176 U 0.0177 U 0.0077 U 0.00173 U 0.0178 U 0.0177 U 0.0173 U		1	1	<u>1.1476</u>	<u>5.159</u>	0.0437 J	ND	0.0393 J	0.242	0.647	<u>2.002</u>	0.586	<u>3.796</u>	ND
Endin korone ~ ~ 0.017 U 0.0181 U 0.00198 U 0.00368 U 0.00368 U 0.0178 U 0.0173 U 0.0184 U 0.0184 U 0.0175 U 0.0175 U 0.0175 U 0.0175 U 0.0176 U 0.0177 U 0.0177 U 0.0176	Pesticides (mg/kg)													
Diberstrian 59 250 1.1 U 1.2 U 2.2 U 0.07 U 0.071 U 0.02 U 0.33 U 0.2 U 0.2 U 0.031 U 0.0115 U 4.4'DDE 8.9 62 0.0373 P 0.0181 U 0.0218 U 0.00124 U 0.00285 U 0.0173 U 0.00173 U 0.00184 U 4.4'DD 7.9 47 0.177 0.021 U 0.00173 U 0.0184 U 0.00281 U 0.0184 U 0.0218 U 0.0184	-	11	89											
Diednim 0.2 1.4 0.0108 U 0.0178 U 0.00178 U 0.00184 U 0.00178 U 0.00178 U 0.00184 U 0.00184 U 0.0178 U <t< td=""><td></td><td></td><td></td><td></td><td></td><td>0.0218 U</td><td>0.00198 U</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>						0.0218 U	0.00198 U							
h(4)-DDE 8.9 62 0.0373 P 0.0178 U 0.0078 U 0.0178 U 0.0178 U 0.0178 U 0.0178 U 0.0178 U 0.0178 U 0.00181 U 0.00181 U 0.00184 U 0.00184 U 0.00184 U 0.0178 V 0.0178 V 0.00174 U 0.00275 U 0.00275 U 0.00272 U 0.00272 U 0.00272 U 0.00274 U 0.0174 U 0.171 PI 0.0144 U 0.00233 U 0.00233 U 0.0073 U 0.0178 U 0.00224 U 0.0171 PI 0.0216 U 0.0171 PI 0.0216 U 0.0073 U 0.0023 U 0.00174 U 0.0216 U 0.0171		59	350											
A+-DDC 13 92 0.017 U 0.018 U 0.0128 U 0.0126 U 0.0124 U 0.0218 U 0.0164 U 0.0128 U 0.0164 U 0.0164 <td>Dieldrin</td> <td>0.2</td> <td>1.4</td> <td>0.0106 U</td> <td>0.0168 PI</td> <td>0.0136 U</td> <td>0.00124 U</td> <td>0.0108 U</td> <td>0.00518 U</td> <td>0.023 U</td> <td>0.0111 U</td> <td>0.00176</td> <td>0.0382</td> <td>0.00115 U</td>	Dieldrin	0.2	1.4	0.0106 U	0.0168 PI	0.0136 U	0.00124 U	0.0108 U	0.00518 U	0.023 U	0.0111 U	0.00176	0.0382	0.00115 U
A+ODT 7.9 47 0.197 0.29 PI 0.0211 U 0.0011 U 0.00213 J 0.00213 J 0.00213 J 0.00216 U 0.00227 U 0.0027 U 0.0027 U 0.00272 U 0.0027 U 0.0027 U 0.0027 U 0.0027 U 0.0027 U 0.0027 U 0.0016 U 0.164 U 0.167 U 0.0023 U 0.0023 U 0.0023 U 0.0024 U 0.0154 U 0.171 PI 0.0224 U 0.0023 U 0.0023 U 0.0158 PI 0.024 U 0.0158 PI 0.0224 U 0.0158 PI 0.0224 U 0.0158 PI 0.0212 U 0.0023 U 0.0158 PI 0.0224 U 0.0151 U 0.016 D D D		8.9	62	0.0373 P	0.0181 U	0.0218 U	0.00198 U	0.0172 U	0.00828 U	0.117	0.0178 U	0.00187 U	0.0173 U	0.00184 U
is-Chordane 4.2 24 0.0212 U 0.0272 U 0.0216 U 0.014 U 0.164 PI 0.0222 U 0.0164 U 0.0164 U 0.0164 PI 0.0222 U 0.0164 U 0.0216 U 0.0026 U 0.0216 U 0.0227 U 0.00272 U 0.00272 U 0.00272 U 0.0216 U 0.0164 U 0.014 U 0.0673 U 0.014 U 0.0128 V 0.0116 U 0.0128 V 0.014 U 0.0128 V 0.014 U 0.014 U 0.014 U 0.014 U 0.014 U 0.0123 U 0.0161	4,4'-DDD	13	92	0.017 U	0.0181 U	0.0218 U	0.00198 U	0.0128 J	0.0101	0.0369 U	0.0195 P	0.00215	0.0267	0.00184 U
rans_Chlordane - - 0.0212 U 0.0272 U 0.0272 U 0.0216 U 0.014 U 0.171 PI 0.0222 U 0.0023 PI 0.0216 U 0.0015 U Chordane - - 0.138 U 0.177 U 0.0216 U 0.0161 U 0.0141 U 0.0141 U 0.0141 U 0.0141 U 0.0122 U 0.0122 U 0.0126 U 0.0161 U 0.0216 U 0.0023 U 0.0161 U 0.0216 U 0.0161 U 0.0216 U 0.02		7.9	47	0.197	0.2 PI	0.231	0.00371 U	0.194	0.0158 PI	0.257	0.246	0.00213 J	0.245 P	
Chlorane ~ 0.138 U 0.177 U 0.0161 U 0.0673 U 0.144 U 0.122 P 0.14 U 0.015 U Herbicides - - ND	cis-Chlordane	4.2	24	0.0212 U	0.0227 U	0.0272 U	0.00248 U	0.0216 U	0.0104 U	0.164 PI	0.0222 U	0.0104	0.0216 U	0.0023 U
Herbicides (mg/kg) ~ ND	trans-Chlordane	~	~	0.0212 U	0.0227 U	0.0272 U	0.00248 U	0.0216 U	0.0104 U	0.171 PI	0.0222 U	0.00893 PI	0.0216 U	0.0023 U
Herbicides ~ ND	Chlordane	~	~	0.138 U	0.147 U	0.177 U	0.0161 U	0.14 U	0.0673 U	0.851 PI	0.144 U	0.122 P	0.14 U	0.015 U
Metals (mg/kg) Image: Control of the service of the serv	Herbicides (mg/kg)													
Arsenic, Total 16 16 4.4 5.6 3.5 0.52 2.2 2.6 3.5 6.2 1.2 6.1 0.82 Barjum, Total 400 400 120 270 44 4 19 21 90 40 6.8 170 4.7 Berjum, Total 4.3 9.3 1 4.9 1.2 0.04 J 0.12 J 0.07 J 0.16 J 0.24 J 0.24 J 0.62 0.77 0.76 0.12 J 3.3 0.04 J 0.24 J 0.62 0.77 0.76 0.12 J 3.3 0.04 J 0.24 J 0.62 0.77 0.76 0.12 J 3.3 0.04 J 0.25 J 0.91 U 0.85 U 0.93 U 0.87 U 0.90 U 0.87 U 0.90 U 0.85 U 0.97 U 0.93 U 0.87 U 0.96 U 0.44 J 0.22 0.61	Herbicides	~	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium, Total 400 400 120 270 44 4 19 21 690 40 6.8 170 4.7 Beryllium, Total 72 590 0.26 0.1 J 0.51 0.24 U 0.11 J 0.12 J 0.07 J 0.16 J 0.24 U 0.24 J 0.24 J 0.62 J 0.77 J 0.76 J 0.24 U 0.24 U 0.24 J 0.24 J 0.24 J 0.24 J 0.62 J 0.77 J 0.76 J 0.24 U 0.24 J 0.24 J 0.62 J 0.77 J 0.76 J 0.24 J 0.24 J 0.25 J 0.93 U 0.97 U 0.93 U 0.97 Q 0.93 U 0.87 U 0.94 U 0.97 Q 0.93 U 0.97 0.16 J 0.24 J 0.24 J 0.27 0.83 Q <td>Metals (mg/kg)</td> <td></td>	Metals (mg/kg)													
Berylium, Total 72 590 0.26 0.1 J 0.51 0.24 U 0.11 J 0.12 J 0.07 J 0.16 J 0.24 U 0.24 U Cadmium, Total 4.3 9.3 1 4.9 1.2 0.04 J 0.24 J 0.07 J 0.16 J 0.24 U 0.24 U Chronium, Trivalent 180 1500 19 24 50 2.3 6.4 9.3 13 15 2.6 J 3.3 0.06 U 0.93 U	Arsenic, Total	16	16	4.4	5.6	3.5	0.52	2.2	2.6	3.5	6.2	1.2	6.1	0.82
Cadmiun, Total 4.3 9.3 1 4.9 1.2 0.04 J 0.24 J 0.62 0.77 0.76 0.12 J 3.3 0.04 J Chromiun, Trivient 180 1500 19 24 50 2.3 6.4 9.3 13 15 2.6 2.6 2.7 2 Chromiun, Trivient 100 400 0.66 U 0.44 J 0.51 J 0.25 J 0.91 U 0.85 U 0.77 U 0.76 0.12 J 3.3 0.04 J Chromiun, Trivient 180 100 400 0.66 U 0.25 J 0.91 U 0.85 U 0.3 U 0.77 0.76 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.77 0.76 0.77 0.77 0.76 0.77 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.77 0.76 0.77 0.77 0.77 <	Barium, Total	400	400	120	270	44	4	19	21	<u>690</u>	40	6.8	170	4.7
Chromiun, Trivalent 180 1500 19 24 50 2.3 6.4 9.3 13 15 2.6 27 2 Chromiun, Hexavalent 110 400 0.86 0 0.44 0.51 J 0.25 J 0.91 0.85 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.97 0 0.97 0 0.97 0 0.97 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.93 0 0.93 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.93 0 0.97 0 0.13 0 0.93 0 0 <td< td=""><td>Beryllium, Total</td><td>72</td><td>590</td><td>0.26</td><td>0.1 J</td><td>0.51</td><td>0.24 U</td><td>0.11 J</td><td>0.12 J</td><td>0.07 J</td><td>0.16 J</td><td>0.24 U</td><td>0.21</td><td>0.24 U</td></td<>	Beryllium, Total	72	590	0.26	0.1 J	0.51	0.24 U	0.11 J	0.12 J	0.07 J	0.16 J	0.24 U	0.21	0.24 U
Chronium, Hexavalent 110 400 0.86 U 0.44 J 0.51 J 0.25 J 0.91 U 0.97 U 0.93 U 0.99 U 0.87 U 0.96 U Copper, Total 270 270 50 140 32 2.7 26 560 560 63 250 14 500 0.51 J Lead, Total 4000 10000 260 390 63 38 72 860 120 63 250 14 370 1 J 0.51 J Magenese, Total 2000 10000 260 140 720 8 85 120 64 250 18 270 16 Margenese, Total 0.81 2.88 0.1 0.22 0.08 J 0.07 0.11 0.08 U 0.13 0.09 U 0.53 0.09 U Margenese, Total 310 310 2.3 62 65 0.79 J 0.70 0.11 0.08 U	Cadmium, Total	4.3	9.3	1	4.9	1.2	0.04 J	0.24 J	0.62	0.77	0.76	0.12 J	3.3	0.04 J
Copper, Total 270 50 140 32 2.7 26 560 63 250 14 500 0.51 Lead, Total 400 1000 260 390 63 38 72 86 190 79 6.1 370 1 J Marganese, Total 2000 10000 260 140 72 8 85 120 64 250 18 270 16 1 J Mercury, Total 0.81 2.8 0.1 0.22 0.08 0.09 0.07 0.11 0.68 0.1 0.4 37 1.1 J Selenium, Total 310 310 23 62 65 0.79 J 5.7 11 7.9 10 1.4 37 1.1 J Selenium, Total 180 1500 0.34 J 0.4 J 0.47 J 0.44 J 0.44 J 0.44 J 0.44 J 0.44 J 0.47 J 0.47 J 0.47 J	Chromium, Trivalent	180	1500	19	24	50	2.3	6.4	9.3	13	15	2.6	27	2
Lead, Total 400 1000 260 390 63 38 72 86 190 79 6.1 370 1 J Manganese, Total 2000 10000 260 140 720 8 85 120 64 250 18 270 16 Mercury, Total 0.81 2.8 0.1 0.22 0.08 J 0.09 U 0.03 0.09 U 0.09 U 0.09 U 0.53 0.09 U 0.07 0.11 0.08 U 0.13 0.09 U 0.09 U <td></td> <td>110</td> <td>400</td> <td>0.86 U</td> <td>0.44 J</td> <td>0.51 J</td> <td>0.25 J</td> <td>0.91 U</td> <td>0.85 U</td> <td>0.97 U</td> <td>0.93 U</td> <td>0.99 U</td> <td>0.87 U</td> <td>0.96 U</td>		110	400	0.86 U	0.44 J	0.51 J	0.25 J	0.91 U	0.85 U	0.97 U	0.93 U	0.99 U	0.87 U	0.96 U
Lead, Total 400 1000 260 390 63 38 72 86 190 79 6.1 370 1 J Manganese, Total 2000 10000 260 140 720 8 85 120 64 250 18 270 16 Mercury, Total 0.81 2.8 0.1 0.22 0.08 J 0.09 U 0.08 U 0.13 0.09 U 0.09 U Nickel, Total 310 310 23 62 65 0.79 J 5.7 11 7.9 10 1.4 37 1.1 J Selenium, Total 180 1500 0.34 J 0.4 J 0.47 U 0.44 U 0.44 U 0.44 U 0.44 U 0.14 J 0.45 U 0.45 U 0.45 U 0.47 U 0.44 U <td>Copper, Total</td> <td>270</td> <td>270</td> <td>50</td> <td>140</td> <td>32</td> <td>2.7</td> <td>26</td> <td><u>560</u></td> <td>63</td> <td>250</td> <td>14</td> <td><u>500</u></td> <td>0.51</td>	Copper, Total	270	270	50	140	32	2.7	26	<u>560</u>	63	250	14	<u>500</u>	0.51
Mercury, Total 0.81 2.8 0.1 0.22 0.08 J 0.09 U 0.03 0.09 U <		400	1000	260	390	63	38	72		190	79	6.1		1 J
Nicker, Total 310 310 310 23 62 65 0.79 J 5.7 11 7.9 10 1.4 37 1.1 J Selenium, Total 180 1500 0.34 J 0.4 J 1 U 0.95 U 0.89 U 0.32 J 0.17 J 0.95 U 0.95 U 0.88 U 0.32 J 0.17 J 0.95 U 0.95 U 0.95 U 0.88 U 0.32 J 0.17 J 0.95 U 0.95 U 0.95 U 0.47 U 0.44 U 0.44 U 0.45 U 0.48 U 0.35 J 0.47 U Zinc, Total 10000 10000 200 1400 75 8.7 42 170 370 120 9.46 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 <td>Manganese, Total</td> <td>2000</td> <td>10000</td> <td>260</td> <td>140</td> <td>720</td> <td>8</td> <td>85</td> <td>120</td> <td>64</td> <td>250</td> <td>18</td> <td>270</td> <td>16</td>	Manganese, Total	2000	10000	260	140	720	8	85	120	64	250	18	270	16
Nicker, Total 310 310 310 23 62 65 0.79 J 5.7 11 7.9 10 1.4 37 1.1 J Selenium, Total 180 1500 0.34 J 0.4 J 1 U 0.95 U 0.89 U 0.32 J 0.17 J 0.95 U 0.95 U 0.88 U 0.32 J 0.17 J 0.95 U 0.95 U 0.95 U 0.88 U 0.32 J 0.17 J 0.95 U 0.95 U 0.95 U 0.47 U 0.44 U 0.44 U 0.45 U 0.48 U 0.35 J 0.47 U Zinc, Total 10000 10000 200 1400 75 8.7 42 170 370 120 9.46 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 <td>Mercury, Total</td> <td>0.81</td> <td>2.8</td> <td>0.1</td> <td>0.22</td> <td>0.08 J</td> <td>0.09 U</td> <td>0.07</td> <td>0.11</td> <td>0.08 U</td> <td>0.13</td> <td>0.09 U</td> <td>0.53</td> <td>0.09 U</td>	Mercury, Total	0.81	2.8	0.1	0.22	0.08 J	0.09 U	0.07	0.11	0.08 U	0.13	0.09 U	0.53	0.09 U
Selenium, Total 180 1500 0.34 J 0.4 J 1 U 0.95 U 0.82 J 0.17 J 0.95 U 0.95 U 0.95 U 0.95 U 0.29 J 0.95 U 0.95 U <td>Nickel, Total</td> <td>310</td> <td>310</td> <td>23</td> <td>62</td> <td>65</td> <td>0.79 J</td> <td>5.7</td> <td>11</td> <td>7.9</td> <td>10</td> <td>1.4</td> <td>37</td> <td></td>	Nickel, Total	310	310	23	62	65	0.79 J	5.7	11	7.9	10	1.4	37	
Zinc, Total 1000 1000 200 1400 75 8.7 42 170 370 120 39 720 4.6 General Chemistry Solids, Total (%) ~ ~ 93.3 84.5 72.2 79.9 87.9 94.4 82.5 85.9 81 91.7 83.6	Selenium, Total	180	1500	0.34 J	0.4 J		0.95 U	0.89 U	0.8 U	0.32 J	0.17 J	0.95 U	0.29 J	0.95 U
Zinc, Total 1000 1000 200 1400 75 8.7 42 170 370 120 39 720 4.6 General Chemistry Solids, Total (%) ~ ~ 93.3 84.5 72.2 79.9 87.9 94.4 82.5 85.9 81 91.7 83.6	Silver, Total	180	1500	0.42 U	2	0.15 J	0.47 U	0.44 U	0.4 U	0.11 J	0.45 U	0.48 U	0.35 J	0.47 U
Solids, Total (%) ~ ~ 93.3 84.5 72.2 79.9 87.9 94.4 82.5 85.9 81 91.7 83.6				200	1400				170	370				4.6
	General Chemistry								•		-			
	Solids, Total (%)	~	~	93.3	84.5	72.2	79.9	87.9	94.4	82.5	85.9	81	91.7	83.6
	Cyanide, Total	27	27	ND	ND	ND	ND	ND	ND		ND	ND		

Notes and Qualifiers:

1. Grab soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential and Restricted Use Commercial Soil Cleanup Objectives (SCO).

2. Only compounds with detections are shown in the table.

3. NYSDEC Part 375 Restricted Use Restricted-Residential SCO exceedances are highlighted and bolded.

4. NYSDEC Part 375 Restricted Use Commercial SCO exceedances are underlined.

Notes and Qualifiers:

5.Method Detection Limits (MDL) above any of the three NYSDEC Part 375 SCO standards are italicized.

6. mg/kg = milligrams per kilogram

7. ~ = Criteria not available

8. ND = Not Detected

9. J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

10. U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL or the sample concentration for results impacted by blank contamination.

11. P - The RPD between the results for the two columns exceeds the method-specified criteria.

Table 2b Soil Sample Detections Summary Soil Investigation Sunset Cove Park, Broad Channel Queens, New York Langan Project No. 170220401

Client Sample ID Lab Sample ID Sampling Date Sample Depth (ft.)	NYSDEC Part 375 Restricted Use Restricted- Residential SCO	NYSDEC Part 375 Restricted Use Commercial SCO	SB-14-1 L1320271-22 10/9/2013 1		SB-14-3 L1320271-23 10/9/2013 3	SB-15-1 L1320271-24 10/9/2013 1		SB-15-3 L1320271-25 10/9/2013 3	SB-16-1 L1320271-26 10/9/2013 1	SB-16-3 L1320271-27 10/9/2013 3	SB-17-1 L1320271- 10/9/201 1	-28	SB-17-3 L1320271-29 10/9/2013 3		SB-18-1 L1320271-30 10/9/2013 1	SB-20-S (Dup L13202 10/9/2 0 to	71-33 013	SB-18-3 L1320271-31 10/9/2013 3	
Polychlorinated Biphenyls (mg																			
Aroclor 1248	~	~	11.2		29.2	5.26		0.0402 U	7.05 U	0.0196	0.0414	U	0.9		0.0020	J 0.0366	U	0.0387	U
Aroclor 1254	~	~	10.6		24.2	1.71		0.0402 U	35.5	0.011 J	0.0414	U	0.951		0.0020	J 0.192		0.0387	U
Aroclor 1260	~	~	1.69	PI	4.14 J	0.434	J	0.0402 U	8.79	0.049 L			0.288			J 0.0913		0.0387	U
Aroclor 1268	~	~	1.44	U	4.18 U	0.74	U	0.0402 U	7.05 U	0.049 L		U	0.0823	U	0.0020	J 0.0366	U	0.0387	U
Total PCBs	1	1	<u>23.49</u>	PI	57.54 J	<u>7.404</u>	J	ND	<u>44.29</u>	0.0306	0.0634		<u>2.139</u>		ND	0.2833		ND	
Pesticides (mg/kg)																			
Endrin	11	89	0.00726	U	0.00866 U	0.00377	U	0.000831 U	0.00724 U	0.00096 L		U	0.0041	U		J 0.000724	U	0.000792	U
Endrin ketone	~	~	0.0174	U	0.0208 U	0.00906	U	0.00199 U	0.0174 U	0.0023 L		U	0.00984	U		J 0.00174	U	0.0019	U
Dibenzofuran	59	350	3.7	U	5.3 J	0.76	U	0.2 U	3.6 U	0.25 L			13			J 0.93	U	0.2	U
Dieldrin	0.2	1.4	0.0109	U	0.013 U	0.107		0.00125 U	0.0108 U	0.00144 L		U	0.00615	U		J 0.00109	U	0.00119	U
4,4'-DDE	8.9	62	0.0174	U	0.0208 U	0.00906	U	0.00199 U	0.0174 U			U	0.00984	U		J 0.00174	U	0.0019	U
4,4'-DDD	13	92	0.0174	U	0.0208 U	0.00906	U	0.00199 U	0.0174 U	0.0023 L		U	0.00984	U		J 0.00174	U	0.0103	
4,4'-DDT	7.9	47	0.0327	U	0.039 U	0.017	U	0.00374 U	0.0326 U	0.00432 L		U	0.0184	U	0.074	J 0.00326	U	0.00356	U
cis-Chlordane	4.2	24	0.0218	U	0.026 U	0.0404	ΡI	0.00249 U	0.0217 U	0.00288 L	0.342		0.0828		0.0494	J 0.00217	U	0.00237	U
trans-Chlordane	~	~	0.0218	U	0.026 U	0.0113	U	0.00249 U	0.0217 U	0.00288 L		PI	0.074			J 0.00217	U	0.00237	U
Chlordane	~	~	0.142	U	0.169 U	0.0736	U	0.0162 U	0.141 U	0.0187 L	1.08	PI	0.583		0.321	J 0.0141	U	0.0154	U
Herbicides (mg/kg)																			
Herbicides	~	~	ND		ND	ND		ND	ND	ND	ND		ND		ND	ND		ND	
Metals (mg/kg)																			
Arsenic, Total	16	16	16		14	15		2.9	11	0.52 .	12		5.9		4.2	2		1.2	I
Barium, Total	400	400	<u>810</u>		260	140		29	240	2.9	150		120		54	25		11	
Beryllium, Total	72	590	0.31	J	0.08 J	0.26		0.24 U	0.11 J	0.28 L	0.43		0.28		0.19	J 0.09	J	0.24	U
Cadmium, Total	4.3	9.3	<u>27</u>		<u>9.9</u>	3.7		0.1 J	<u>20</u>	0.14	1.1		0.98		0.33	J 0.21	J	0.06	J
Chromium, Trivalent	180	1500	130		55	52		2.2	77	2.7	22		17		8.6	5.9		2.5	
Chromium, Hexavalent	110	400	0.89	U	1 U	0.92	U	1 U	0.88 U	1.2 L	1	U	1	U	1	J 0.9	U	0.97	U
Copper, Total	270	270	<u>970</u>		<u>890</u>	210		2.2	<u>1100</u>	12	71		56		59	55		16	
Lead, Total	400	1000	3200		900	360		2.4	2200	14	160		130		110	46		30	
Manganese, Total	2000	10000	550		200	260		12	300	16	270		230		150	81		11	
Mercury, Total	0.81	2.8	2.1		0.08 U	0.29		0.1 U	<u>9.8</u>	0.1 L	0.46		0.23		0.08	J 0.15		0.09	I
Nickel, Total	310	310	310		160	37		2.8	250	18	15		12		8.7	5.2		1.3	I
Selenium, Total	180	1500	4.4	U	0.54 J	0.36	J	0.96 U	0.64 J	1.1 L	0.33	J	1	U	0.96	J 0.86	U	0.96	U
Silver, Total	180	1500	1.1	J	0.48 J	0.18	J	0.48 U	1.3	0.56 L	0.1	J	0.12	J	0.48	J 0.43	U	0.48	U
Zinc, Total	10000	10000	5400		5900	1900		14	5900	440	250		240		110	46		23	I
General Chemistry																			
Gonoral ononinou y																			
Solids, Total (%)	~	~	89.9		76.5	86.8		78.9	90.7	66.8	78		77.5		79.8	88.4		82.2	

Notes and Qualifiers:

1. Grab soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Restricted-

Residential and Restricted Use Commercial Soil Cleanup Objectives (SCO).

2. Only compounds with detections are shown in the table.

3. NYSDEC Part 375 Restricted Use Restricted-Residential SCO exceedances are highlighted and bolded.

4. NYSDEC Part 375 Restricted Use Commercial SCO exceedances are underlined.

Notes and Qualifiers:

5.Method Detection Limits (MDL) above any of the three NYSDEC Part 375 SCO standards are italicized.

6. mg/kg = milligrams per kilogram

7. ~ = Criteria not available

8. ND = Not Detected

9. J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

10. U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL or the sample concentration for results impacted by blank contamination.

11. P - The RPD between the results for the two columns exceeds the method-specified criteria.

APPENDICES

APPENDIX A – PHOTOGRAPHIC LOG



Photo 1 - Sampling using Geoprobe drill rig. View is towards the northwest.





Photo 2 - Sampling using Geoprobe drill rig. View is towards the north.

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Photo 3 - Typical constituents of historic fill at the site.





Photo 4 - Typical constituents of native soil at the site.





Photo 5 - View of adjoining Broad Channel and Jamaica Bay towards the west.

