

ENVIRONMENTAL ASSESSMENT STATEMENT



NORTH CONDUIT HOTEL JFK AIRPORT, NEW YORK CEQR No. 07DCP024Q

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Table of Contents

EAS Short Form
EAS Map Attachments (Land Use, Zoning, and Tax Maps)

Analyses	Page
Introduction and Project Description.....	1
Land Use, Zoning, and Public Policy.....	9
Shadows	14
Historic Resources	21
Natural Resources	23
Hazardous Materials	24
Infrastructure	28
Transportation	36
Air Quality	38
Noise	40
Neighborhood Character.....	44

List of Exhibits

Exhibit 1:	Project Site Location.....	1
Exhibit 2:	Project Site Aerial Photograph.....	2
Exhibit 3:	Existing Zoning	2
Exhibit 4:	Proposed Project Site Plan.....	6
Exhibit 5:	Proposed Project Elevation.....	7
Exhibit 6:	Proposed Project Basement (Parking) Plan.....	8
Exhibit 7:	Land Use Map	10
Exhibit 8:	Hilton Gardens Park	15
Exhibit 9:	Initial Shadow Screen.....	15
Exhibit 10:	Tier 3 – December 31 Shadows	17
Exhibit 11:	Tier 3 – March 21 Shadows	17
Exhibit 12:	Tier 3 – May 6 / August 6 Shadows	18
Exhibit 13:	Tier 3 – June 21 Shadows	18
Exhibit 14:	Tier 3 – December 21 w/Adjustment at 2:49 PM.....	19
Exhibit 15:	Tier 3 – December 21 w/Adjustment at 2:53 PM.....	20
Exhibit 16:	Proposed Project and Buildings of Similar Height I..	39
Exhibit 17:	Proposed Project and Buildings of Similar Height II..	39
Exhibit 18:	Distance from Proposed Project to Buildings I.....	39
Exhibit 19:	HVAC Screening Analysis.....	40
Exhibit 20:	Noise Measurement Locations	

List of Tables

Table 1:	Shadow Analysis Summary.....	20
Table 2:	No Action Scenario Water Usage	29
Table 3:	No Action Scenario Wastewater Flows	30
Table 4:	No Action Scenario Project Site Surface Conditions.	31
Table 5:	No Action Scenario Runoff to Bergen Basin.....	31

Table 6:	Proposed Project/With Action Water Usage.....	32
Table 7:	Proposed Project/With Action Wastewater Flows.....	33
Table 8:	Comparison of Site Surface Conditions.....	34
Table 9:	Comparison of Stormwater Runoff to Bergen Basin.	34
Table 10:	Existing Noise Measurements	42
Table 11:	Noise Attenuation Summary.....	44
Table 12:	Noise Attenuation Requirements	44

Appendices

Appendix NB: No-Action Scenario Plans and Zoning Calculations

Appendix BD: With-Action Scenario Plans and Zoning Calculations

Appendix A: Site Photographs

Exhibit A-1: Project Site from North Conduit Avenue

Exhibit A-2: Project Site from North Conduit Avenue at 140 Street

Exhibit A-3: Project Site from North Conduit Avenue at 142nd Street

Appendix B: Traffic and Air Quality Appendix

Exhibit TR-1: Holiday Inn Trip Generation Analysis - Weekday

Exhibit TR-2: Holiday Inn Trip Generation Analysis – Saturday

Exhibit TR-3: Medical Office Trip Generation Rates

Exhibit TR-4: Medical Office Trip Generation Analysis

Exhibit TR-5: Proposed Project (Hotel) Trip Summary

Exhibit TR-6: Net New Trips

Exhibit AQ-1: Parking Garage Analysis

Appendix C: Phase I ESA (ELA)

Appendix D: Phase II ESA (Brickhouse Environmental Consultants)

Appendix E: Construction Health and Safety Plan (ELA)

Appendix F: LPC Letter of Determination

Appendix G: Jamaica Bay Tracking Form

Appendix H: Sewer Infrastructure Backup Data

Appendix I: Condemnation Letter



PART I: GENERAL INFORMATION

1. Does Action Exceed Any Type I Threshold In 6 NYCRR Part 617.4 or 43 RCNY §6-15(A) (Executive Order 91 of 1977, as amended)?

Yes No

If yes, STOP, and complete the FULL EAS

2. Project Name

3. Reference Numbers

Form with fields for CEQR REFERENCE NUMBER, BSA REFERENCE NUMBER, ULURP REFERENCE NUMBER, OTHER REFERENCE NUMBER(S), 4a. Lead Agency Information, 4b. Applicant Information, ADDRESS, CITY, STATE, ZIP, TELEPHONE, FAX, EMAIL ADDRESS.

5. Project Description:

6a. Project Location: Single Site (for a project at a single site, complete all the information below)

Form with fields for ADDRESS, NEIGHBORHOOD NAME, TAX BLOCK AND LOT, BOROUGH, COMMUNITY DISTRICT, DESCRIPTION OF PROPERTY BY BOUNDING OR CROSS STREETS, EXISTING ZONING DISTRICT, INCLUDING SPECIAL ZONING DISTRICT DESIGNATION IF ANY, ZONING SECTIONAL MAP NO.

6b. Project Location: Multiple Sites (Provide a description of the size of the project area in both City Blocks and Lots. If the project would apply to the entire city or to areas that are so extensive that a site-specific description is not appropriate or practicable, describe the area of the project, including bounding streets, etc.)

7. REQUIRED ACTIONS OR APPROVALS (check all that apply)

City Planning Commission: YES NO

- CITY MAP AMENDMENT, ZONING CERTIFICATION, ZONING MAP AMENDMENT, ZONING AUTHORIZATION, ZONING TEXT AMENDMENT, HOUSING PLAN & PROJECT, UNIFORM LAND USE REVIEW PROCEDURE (ULURP), SITE SELECTION — PUBLIC FACILITY, CONCESSION, FRANCHISE, UDAAP, DISPOSITION — REAL PROPERTY, REVOCABLE CONSENT

ZONING SPECIAL PERMIT, SPECIFY TYPE:

- MODIFICATION OF, RENEWAL OF, OTHER

Board of Standards and Appeals: YES NO

- SPECIAL PERMIT, EXPIRATION DATE MONTH DAY YEAR, VARIANCE (USE), VARIANCE (BULK)

SPECIFY AFFECTED SECTION(S) OF THE ZONING RESOLUTION

Department of Environmental Protection: YES NO IF YES, IDENTIFY:

Other City Approvals: YES NO

- | | |
|--|--|
| <input type="checkbox"/> LEGISLATION | <input type="checkbox"/> RULEMAKING |
| <input type="checkbox"/> FUNDING OF CONSTRUCTION; SPECIFY: | <input type="checkbox"/> CONSTRUCTION OF PUBLIC FACILITIES |
| <input type="checkbox"/> POLICY OR PLAN; SPECIFY: | <input type="checkbox"/> FUNDING OF PROGRAMS; SPECIFY: |
| <input type="checkbox"/> LANDMARKS PRESERVATION COMMISSION APPROVAL (<i>not subject to CEQR</i>) | <input type="checkbox"/> PERMITS; SPECIFY: |
| <input type="checkbox"/> 384(b)(4) APPROVAL | <input type="checkbox"/> OTHER; EXPLAIN |
| <input type="checkbox"/> PERMITS FROM DOT'S OFFICE OF CONSTRUCTION MITIGATION AND COORDINATION (OCMC) (<i>not subject to CEQR</i>) | |

State or Federal Actions/Approvals/Funding: YES NO IF "YES," IDENTIFY:

8. Site Description: Except where otherwise indicated, provide the following information with regard to the directly affected area. The directly affected area consists of the project site and the area subject to any change in regulatory controls.

GRAPHICS The following graphics must be attached and each box must be checked off before the EAS is complete. Each map must clearly depict the boundaries of the directly affected area or areas and indicate a 400-foot radius drawn from the outer boundaries of the project site. Maps may not exceed 11x17 inches in size and must be folded to 8.5 x 11 inches for submission

- Site location map Zoning map Photographs of the project site taken within 6 months of EAS submission and keyed to the site location map
- Sanborn or other land use map Tax map For large areas or multiple sites, a GIS shape file that defines the project sites

PHYSICAL SETTING (both developed and undeveloped areas)

Total directly affected area (sq. ft.):	Type of Waterbody and surface area (sq. ft.):	Roads, building and other paved surfaces (sq. ft.):
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Other, describe (sq. ft.):

9. Physical Dimensions and Scale of Project (if the project affects multiple sites, provide the total development below facilitated by the action)

Size of project to be developed: _____ (gross sq. ft.)

Does the proposed project involve changes in zoning on one or more sites? YES NO

If 'Yes,' identify the total square feet owned or controlled by the applicant: _____ Total square feet of non-applicant owned development: _____

Does the proposed project involve in-ground excavation or subsurface disturbance, including but not limited to foundation work, pilings, utility lines, or grading? YES NO

If 'Yes,' indicate the estimated area and volume dimensions of subsurface disturbance (if known):

Area: _____ sq. ft. (width x length) Volume: _____ cubic feet (width x length x depth)

DESCRIPTION OF PROPOSED USES (please complete the following information as appropriate)

	Residential	Commercial	Community Facility	Industrial/Manufacturing
Size (in gross sq. ft.)				
Type (e.g. retail, office, school)	units			

Does the proposed project increase the population of residents and/or on-site workers? YES NO Number of additional residents? _____ Number of additional workers? _____

Provide a brief explanation of how these numbers were determined:

Does the project create new open space? YES NO if Yes _____ (sq. ft)

Using Table 14-1, estimate the project's projected operational solid waste generation, if applicable: _____ (pounds per week)

Using energy modeling or Table 15-1, estimate the project's projected energy use: _____ (annual BTUs)

Has a No-Action scenario been defined for this project that differs from the existing condition? YES NO If 'Yes,' see Chapter 2, "Establishing the Analysis Framework" and describe briefly:

10. Analysis Year *CEQR Technical Manual Chapter 2*

ANTICIPATED BUILD YEAR (DATE THE PROJECT WOULD BE COMPLETED AND OPERATIONAL):	ANTICIPATED PERIOD OF CONSTRUCTION IN MONTHS:
WOULD THE PROJECT BE IMPLEMENTED IN A SINGLE PHASE? YES <input type="checkbox"/> NO <input type="checkbox"/>	IF MULTIPLE PHASES, HOW MANY PHASES:
BRIEFLY DESCRIBE PHASES AND CONSTRUCTION SCHEDULE:	

11. What is the Predominant Land Use in Vicinity of Project? *(Check all that apply)*

RESIDENTIAL
 MANUFACTURING
 COMMERCIAL
 PARK/FOREST/OPEN SPACE
 OTHER, Describe:

PART II: TECHNICAL ANALYSES

INSTRUCTIONS: The questions in the following table refer to the thresholds for each analysis area in the respective chapter of the CEQR Technical Manual.

- If the proposed project can be demonstrated not to meet or exceed the threshold, check the 'NO' box.
- If the proposed project will meet or exceed the threshold, or if this cannot be determined, check the 'YES' box.
- Often, a 'Yes' answer will result in a preliminary analysis to determine whether further analysis is needed. For each 'Yes' response, consult the relevant chapter of the CEQR Technical Manual for guidance on providing additional analyses (and attach supporting information, if needed) to determine whether detailed analysis is needed. Please note that a 'Yes' answer does not mean that an EIS must be prepared—it often only means that more information is required for the lead agency to make a determination of significance.
- The lead agency, upon reviewing Part II, may require an applicant either to provide additional information to support this Short EAS Form or complete a Full EAS Form. For example, if a question is answered 'No,' an agency may request a short explanation for this response. In addition, if a large number of the questions are marked 'Yes,' the lead agency may determine that it is appropriate to require completion of the Full EAS Form.

	YES	NO
1. LAND USE, ZONING AND PUBLIC POLICY: <i>CEQR Technical Manual Chapter 4</i>		
(a) Would the proposed project result in a change in land use or zoning that is different from surrounding land uses and/or zoning? Is there the potential to affect an applicable public policy? If "Yes", complete a preliminary assessment and attach.		
(b) Is the project a large, publicly sponsored project? If "Yes", complete a PlaNYC assessment and attach.		
(c) Is any part of the directly affected area within the City's Waterfront Revitalization Program boundaries? If "Yes", complete the Consistency Assessment Form .		
2. SOCIOECONOMIC CONDITIONS: <i>CEQR Technical Manual Chapter 5</i>		
(a) Would the proposed project:		
• Generate a net increase of 200 or more residential units?		
• Generate a net increase of 200,000 or more square feet of commercial space?		
• Directly displace more than 500 residents?		
• Directly displace more than 100 employees?		
• Affect conditions in a specific industry?		
3. COMMUNITY FACILITIES: <i>CEQR Technical Manual Chapter 6</i>		
(a) Does the proposed project exceed any of the thresholds outlined in Table 6-1 of Chapter 6 ?		
4. OPEN SPACE: <i>CEQR Technical Manual Chapter 7</i>		
(a) Would the proposed project change or eliminate existing open space?		
(b) Is the proposed project within an underserved area in the Bronx, Brooklyn, Manhattan, Queens, or Staten Island ? If "Yes," would the proposed project generate 50 or more additional residents?		
If "Yes," would the proposed project generate 125 or more additional employees?		
(c) Is the proposed project in a well-served area in the Bronx, Brooklyn, Manhattan, Queens, or Staten Island ? If "Yes," would the proposed project generate 300 or more additional residents?		
If "Yes," would the proposed project generate 750 or more additional employees?		
(d) If the proposed project is not located in an underserved or well-served area, would the proposed project generate: 200 or more additional residents?		
500 additional employees?		

	YES	NO
5. SHADOWS: <u>CEQR Technical Manual Chapter 8</u>		
(a) Would the proposed project result in a net height increase of any structure of 50 feet or more?		
(b) Would the proposed project result in any increase in structure height and be located adjacent to or across the street from a sunlight-sensitive resource?		
6. HISTORIC AND CULTURAL RESOURCES: <u>CEQR Technical Manual Chapter 9</u>		
(a) Does the proposed project site or an adjacent site contain any architectural and/or archaeological resource that is eligible for, or has been designated (or is calendared for consideration) as a New York City Landmark, Interior Landmark or Scenic Landmark; is listed or eligible for listing on the New York State or National Register of Historic Places; or is within a designated or eligible New York City, New York State, or National Register Historic District?		
If "Yes," list the resources and attach supporting information on whether the project would affect any of these resources.		
7. URBAN DESIGN: <u>CEQR Technical Manual Chapter 10</u>		
(a) Would the proposed project introduce a new building, a new building height, or result in any substantial physical alteration to the streetscape or public space in the vicinity of the proposed project that is not currently allowed by existing zoning?		
(b) Would the proposed project result in obstruction of publicly accessible views to visual resources that is not currently allowed by existing zoning?		
8. NATURAL RESOURCES: <u>CEQR Technical Manual Chapter 11</u>		
(a) Is any part of the directly affected area within the Jamaica Bay Watershed? If "Yes," complete the Jamaica Bay Watershed Form .		
(b) Does the proposed project site or a site adjacent to the project contain natural resources as defined in section 100 of Chapter 11? If "Yes," list the resources and attach supporting information on whether the project would affect any of these resources.		
9. HAZARDOUS MATERIALS: <u>CEQR Technical Manual Chapter 12</u>		
(a) Would the project allow commercial or residential use in an area that is currently, or was historically, a manufacturing area that involved hazardous materials?		
(b) Does the project site have existing institutional controls (e.g. (E) designations or a Restrictive Declaration) relating to hazardous materials that preclude the potential for significant adverse impacts?		
(c) Would the project require soil disturbance in a manufacturing zone or any development on or near a manufacturing zone or existing/historic facilities listed in Appendix 1 (including nonconforming uses)?		
(d) Would the project result in the development of a site where there is reason to suspect the presence of hazardous materials, contamination, illegal dumping or fill, or fill material of unknown origin?		
(e) Would the project result in development where underground and/or aboveground storage tanks (e.g. gas stations) are or were on or near the site?		
(f) Would the project result in renovation of interior existing space on a site with potential compromised air quality, vapor intrusion from on-site or off-site sources, asbestos, PCBs or lead-based paint?		
(g) Would the project result in development on or near a government-listed voluntary cleanup/brownfield site, current or former power generation/transmission facilities, municipal incinerators, coal gasification or gas storage sites, or railroad tracks and rights-of-way?		
(h) Has a Phase I Environmental Site Assessment been performed for the site? If "Yes," were RECs identified? Briefly identify:		
10. INFRASTRUCTURE: <u>CEQR Technical Manual Chapter 13</u>		
(a) Would the proposed project result in water demand of more than one million gallons per day?		
(b) Is the proposed project located in a combined sewer area and result in at least 1,000 residential units or 250,000 SF or more of commercial space in Manhattan or at least 400 residential units or 150,000 SF or more of commercial space in the Bronx, Brooklyn, Staten Island or Queens?		
(c) Is the proposed project located in a separately sewerred area and result in the same or greater development than that listed in Table 13-1 of Chapter 13 ?		
(d) Would the project involve development on a site five acres or larger where the amount of impervious surface would increase?		
(e) Would the project involve development on a site one acre or larger where the amount of impervious surface would increase and is located within the Jamaica Bay Watershed or in certain specific drainage areas including: Bronx River, Coney Island Creek, Flushing Bay and Creek, Gowanus Canal, Hutchinson River, Newtown Creek, or Westchester Creek?		
(f) Is the project located in an area that is partially sewerred or currently unsewerred?		
(g) Is the project proposing an industrial facility or activity that would contribute industrial discharges to a WWTP and/or generate contaminated stormwater in a separate storm sewer system?		
(h) Would the project involve construction of a new stormwater outfall that requires federal and/or state permits?		
11. SOLID WASTE AND SANITATION SERVICES: <u>CEQR Technical Manual Chapter 14</u>		
(a) Would the proposed project have the potential to generate 100,000 pounds (50 tons) or more of solid waste per week?		
(b) Would the proposed project involve a reduction in capacity at a solid waste management facility used for refuse or recyclables generated within the City?		

	YES	NO
12. ENERGY: CEQR Technical Manual Chapter 15		
(a) Would the proposed project affect the transmission or generation of energy?		
13. TRANSPORTATION: CEQR Technical Manual Chapter 16		
(a) Would the proposed project exceed any threshold identified in Table 16-1 of Chapter 16 ?		
(b) If "Yes," conduct the screening analyses, attach appropriate back up data as needed for each stage, and answer the following questions:		
(1) Would the proposed project result in 50 or more Passenger Car Equivalents (PCEs) per project peak hour? If "Yes," would the proposed project result in 50 or more vehicle trips per project peak hour at any given intersection? <i>**It should be noted that the lead agency may require further analysis of intersections of concern even when a project generates fewer than 50 vehicles in the peak hour. See Subsection 313 of Chapter 16, "Transportation," for information.</i>		
(2) Would the proposed project result in more than 200 subway/rail or bus trips per project peak hour? If "Yes," would the proposed project result, per project peak hour, in 50 or more bus trips on a single line (in one direction) or 200 subway trips per station or line?		
(3) Would the proposed project result in more than 200 pedestrian trips per project peak hour? If "Yes," would the proposed project result in more than 200 pedestrian trips per project peak hour to any given pedestrian or transit element, crosswalk, subway stair, or bus stop?		
14. AIR QUALITY: CEQR Technical Manual Chapter 17		
(a) <i>Mobile Sources:</i> Would the proposed project result in the conditions outlined in Section 210 of Chapter 17 ?		
(b) <i>Stationary Sources:</i> Would the proposed project result in the conditions outlined in Section 220 of Chapter 17 ? If "Yes," would the proposed project exceed the thresholds in the Figure 17-3, Stationary Source Screen Graph ? (attach graph as needed)		
(c) Does the proposed project involve multiple buildings on the project site?		
(d) Does the proposed project require Federal approvals, support, licensing, or permits subject to conformity requirements?		
(e) Does the proposed project site have existing institutional controls (e.g. E-designations or a Restrictive Declaration) relating to air quality that preclude the potential for significant adverse impacts?		
15. GREENHOUSE GAS EMISSIONS: CEQR Technical Manual Chapter 18		
(a) Is the proposed project a city capital project, a power plant, or would fundamentally change the City's solid waste management system?		
(b) If "Yes," would the proposed project require a GHG emissions assessment based on the guidance in Chapter 18 ?		
16. NOISE: CEQR Technical Manual Chapter 19		
(a) Would the proposed project generate or reroute vehicular traffic?		
(b) Would the proposed project introduce new or additional receptors (see Section 124 of Chapter 19) near heavily trafficked roadways, within one horizontal mile of an existing or proposed flight path, or within 1,500 feet of an existing or proposed rail line with a direct line of site to that rail line?		
(c) Would the proposed project cause a stationary noise source to operate within 1,500 feet of a receptor with a direct line of sight to that receptor or introduce receptors into an area with high ambient stationary noise?		
(d) Does the proposed project site have existing institutional controls (e.g. E-designations or a Restrictive Declaration) relating to noise that preclude the potential for significant adverse impacts?		
17. PUBLIC HEALTH: CEQR Technical Manual Chapter 20		
(a) Would the proposed project warrant a public health assessment based upon the guidance in Chapter 20 ?		
18. NEIGHBORHOOD CHARACTER: CEQR Technical Manual Chapter 21		
(a) Based upon the analyses conducted for the following technical areas, check yes if any of the following technical areas required a detailed analysis: Land Use, Zoning, and Public Policy, Socioeconomic Conditions, Open Space, Historic and Cultural Resources, Urban Design and Visual Resources, Shadows, Transportation, Noise If "Yes," explain here why or why not an assessment of neighborhood character is warranted based on the guidance of in Chapter 21, "Neighborhood Character." Attach a preliminary analysis, if necessary.		

		YES	NO
19.	CONSTRUCTION IMPACTS: <i>CEQR Technical Manual Chapter 22</i> Would the project's construction activities involve (check all that apply):		
	• Construction activities lasting longer than two years;		✓
	• Construction activities within a Central Business District or along an arterial or major thoroughfare;		✓
	• Require closing, narrowing, or otherwise impeding traffic, transit or pedestrian elements (roadways, parking spaces, bicycle routes, sidewalks, crosswalks, corners, etc);		✓
	• Construction of multiple buildings where there is a potential for on-site receptors on buildings completed before the final build-out;		✓
	• The operation of several pieces of diesel equipment in a single location at peak construction;		✓
	• Closure of community facilities or disruption in its service;		✓
	• Activities within 400 feet of a historic or cultural resource; or		✓
	• Disturbance of a site containing natural resources.		✓
<p>If any boxes are checked, explain why or why not a preliminary construction assessment is warranted based on the guidance of in Chapter 22, "Construction." It should be noted that the nature and extent of any commitment to use the Best Available Technology for construction equipment or Best Management Practices for construction activities should be considered when making this determination.</p>			

20. APPLICANT'S CERTIFICATION

I swear or affirm under oath and subject to the penalties for perjury that the information provided in this Environmental Assessment Statement (EAS) is true and accurate to the best of my knowledge and belief, based upon my personal knowledge and familiarity with the information described herein and after examination of pertinent books and records and/or after inquiry of persons who have personal knowledge of such information or who have examined pertinent books and records.

Still under oath, I further swear or affirm that I make this statement in my capacity as the

George Tserpes

of

Tserpes Holding LLC

APPLICANT/SPONSOR

NAME THE ENTITY OR OWNER

the entity which seeks the permits, approvals, funding or other governmental action described in this EAS.

Check if prepared by: APPLICANT/REPRESENTATIVE OR LEAD AGENCY REPRESENTATIVE (FOR CITY-SPONSORED PROJECTS)

Evan Lemonides

APPLICANT/SPONSOR NAME:

Evan Lemonides

Digitally signed by Evan Lemonides
DN: cn=Evan Lemonides, c=US,
o=ELAS, email=evan@lemonides.com
Date: 2013.08.15 01:19:23 -04'00'

SIGNATURE:

LEAD AGENCY REPRESENTATIVE NAME:

August 15, 2013

DATE:

PLEASE NOTE THAT APPLICANTS MAY BE REQUIRED TO SUBSTANTIATE RESPONSES IN THIS FORM AT THE DISCRETION OF THE LEAD AGENCY SO THAT IT MAY SUPPORT ITS DETERMINATION OF SIGNIFICANCE.

PART III: DETERMINATION OF SIGNIFICANCE (To Be Completed By Lead Agency)

INSTRUCTIONS:

In completing Part III, the lead agency should consult 6 NYCRR 617.7 and 43 RCNY §6-06 (Executive Order 91 of 1977, as amended) which contain the State and City criteria for determining significance.

1. For each of the impact categories listed below, consider whether the project may have a significant effect on the environment. For each of the impact categories listed below, consider whether the project may have a significant adverse effect on the environment, taking into account its (a) location; (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude.	Potential Significant Adverse Impact	
	YES	NO
IMPACT CATEGORY		
Land Use, Zoning, and Public Policy		✓
Socioeconomic Conditions		✓
Community Facilities and Services		✓
Open Space		✓
Shadows		✓
Historic and Cultural Resources		✓
Urban Design/Visual Resources		✓
Natural Resources		✓
Hazardous Materials		✓
Water and Sewer Infrastructure		✓
Solid Waste and Sanitation Services		✓
Energy		✓
Transportation		✓
Air Quality		✓
Greenhouse Gas Emissions		✓
Noise		✓
Public Health		✓
Neighborhood Character		✓
Construction Impacts		✓

2. Are there any aspects of the project relevant to the determination whether the project may have a significant impact on the environment, such as combined or cumulative impacts, that were not fully covered by other responses and supporting materials? If there are such impacts, explain them and state where, as a result of them, the project may have a significant impact on the environment.

3. LEAD AGENCY CERTIFICATION

Deputy Director, Environmental Review And Assessment Division

 TITLE
 Celeste Evans

 NAME

NYC Department of City Planning
 LEAD AGENCY


 SIGNATURE

Introduction and Project Description

The proposed action consists of a rezoning of a total of 40,702 square feet of vacant property (“the project site”) from an R3-2 and R3A district to a C4-2 district, along with a street demapping and acquisition. The applicant intends to construct a hotel on the project site. The project site is located in the Ozone Park section of Queens and shown in Exhibit 1. Based on the environmental/land use review and construction schedules, it is expected that the new hotel would be completed and operational in 2015.

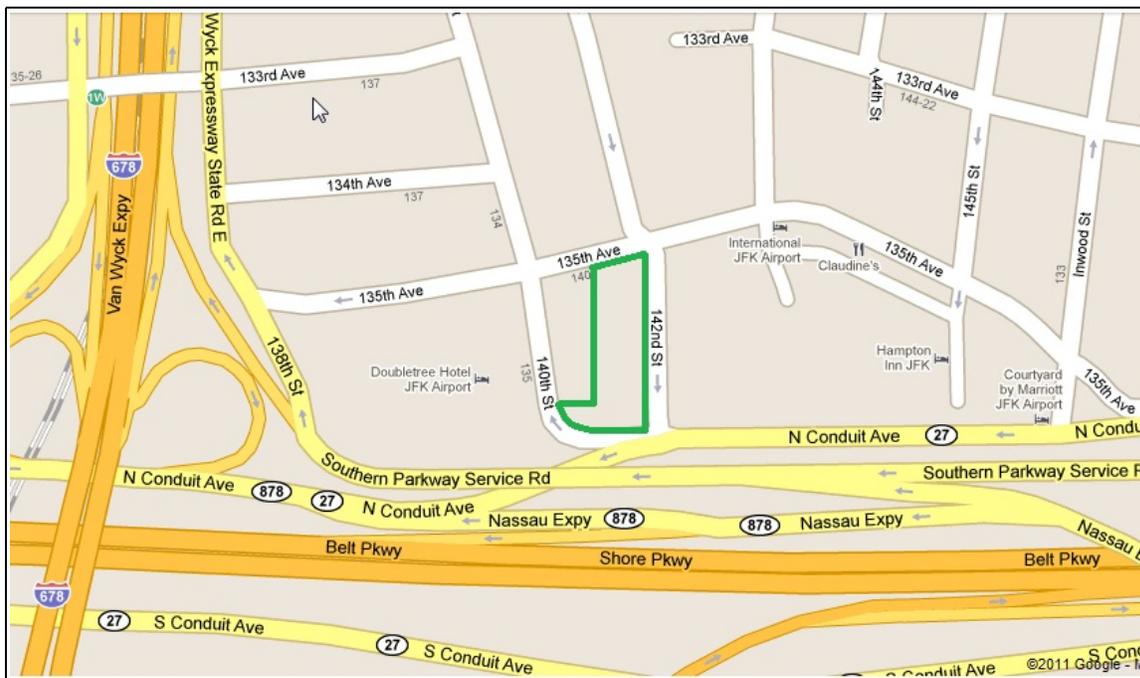


Exhibit 1: Project Site Location

The majority of the project site (38,273 square feet) consists of Block 12095/Lots 2 and 6, which are zoned R3-2 and are located on the eastern portion of the block bounded by North Conduit Avenue, 135th Avenue, and 142nd Street. The remaining portion of the project site (2,429 square feet) is zoned R3A and consists of a mapped but not built portion of North Conduit Avenue located on the southwest corner of Block 12095. The applicant proposes to acquire this area through a street acquisition action by a related City Map Change Application (090033 MMQ). Both these portions of the project site would be rezoned to C4-2.

An aerial view of the project site, showing both portions of the site is shown in Exhibit 2. The western portion of block (fully developed with one- and two-family homes), is not included in the proposed action. As shown in Exhibit 3 (Existing Zoning), the proposed zoning map amendment would join the C4-2 zone immediately to the east with the C4-2 zone to the west.



Exhibit 2: Project Site Aerial Photograph

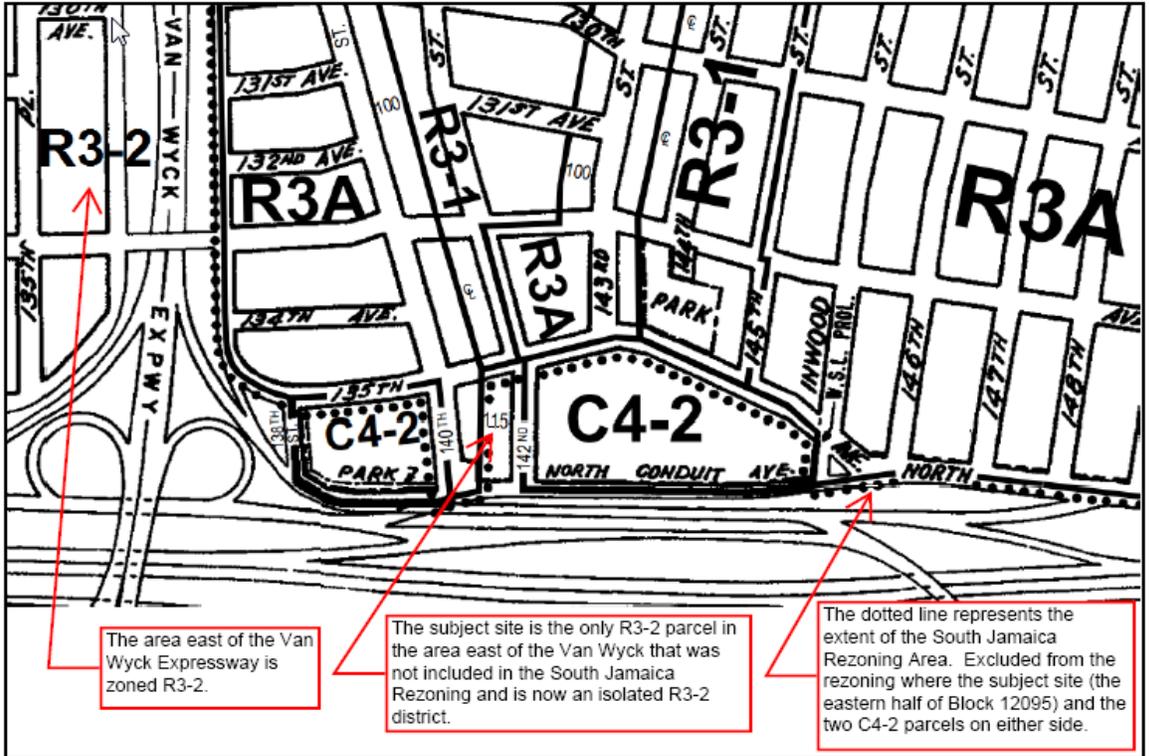


Exhibit 3: Existing Zoning

Current photographs showing the undeveloped project site on the eastern portion of Block 12095, along with the existing homes that are built on the western portion of the block, are provided in Appendix A – Site Photographs. Also shown in Appendix A are the two hotels that are built on the C4-2 zones east and west of the project site.

It is noted that a NYCDOT street widening project is in the planning stages that includes the section of 142nd Street between North Conduit Avenue and 135th Street. As part of the street widening, the City of New York recently acquired from the Applicant a 10-foot wide section of the Project Site along 142nd Street (Queens County Index Number 18977/2010, copy of condemnation letter attached in Appendix I). The effects that the street widening action has on the Proposed Project are discussed immediately below in the Future Without the Proposed Action and the Future With the Proposed Action sections that follow.

Future Without the Proposed Action

Absent the proposed action, the site consisting of Block 12095/Lots 2 and 6 would most likely be developed as a medical office use. The 2,429 square foot portion of North Conduit Avenue that is the subject of the proposed street acquisition would remain mapped as a NYC street and undeveloped.

A medical office use would be a reasonable development at this location because the assemblage on the eastern portion of the block, could support the construction of a relatively large development. The site is also in proximity to a substantial residential population to the north, east, and west, and is convenient to Jamaica Hospital via the Van Wyck Expressway. As shown in Appendix NB (No-Action Scenario Plans and Zoning Calculations), the +/- 42,000 square foot site could support the development of a 25,000 square foot medical office, along with on-grade parking for 83 cars.

The No-Action As-of-Right scenario presented in Appendix NB has been developed on the Project Site so that it can be constructed either with or without the street widening along 142nd Street that is described in the section immediately above. As indicated, a 10-foot wide buffer section along the entire length of the Project Site fronting onto 142nd Street has been left as open space. In addition, there is more than ample lot area to support the 25,000 square foot community facility building, both with and without consideration of the street widening along 142nd Street.

In addition to the medical office development described above, two nearby proposals/projects have been identified that could occur in the Future (2015) No-Action scenario.

First, construction began in 2010 on renovations at Aqueduct Raceway. “Resorts World New York” (also known as “Aqueduct Racino”) opened its first phase in summer 2011 with 2,500 Video Lottery Terminals (VTLs) terminals as well as several dining venues

and retail space. The project was completed in December 2011¹. The project includes +/- 4,500 VTLs, a newly-constructed entrance lobby, a newly-constructed porte-cochere, and the construction of a new elevated and covered walkway connecting to New York City Transit's existing Aqueduct stop. The project also includes construction of a new, above grade multi-level parking garage that also includes bus drop-off and lobby facilities.

Resorts World New York is expected to permanently employ about 1,000 workers in the entertainment, hospitality, security and food service fields². According to the project operator, the venue will draw on tourists visiting New York as well as local residents who now travel to Atlantic City and Bethlehem to gamble. The company also will market Aqueduct as a rest-and-recreation hub for travelers on stopovers at John F. Kennedy International Airport, which is about five miles away. The facility plans to provide a shuttle bus service to the airport as well as other locations³.

Second, the Department of City Planning amended the Zoning Map on all or portions of 530 blocks in South Jamaica and portions of adjacent communities, including St. Albans and Springfield Gardens in Queens Community District 12. The City Council adopted the the South Jamaica Rezoning on May 11, 2011. The goal of the South Jamaica Rezoning was to protect the lower-density character of these neighborhoods while allowing for a moderate increases in residential and commercial density along main corridors⁴. A related application extended the applicable area of the “Food Retail Expansion to Support Health” (FRESH) program to Queens CB 2 commercial corridors.

Although immediately proximate, the project site itself is not included in the South Jamaica Rezoning area⁵, nor is it included within the FRESH program boundaries⁶.

No other proposals have been identified that would affect the proposed project study area in the expected Build Year of 2015.

Future With the Proposed Action

In the future with the proposed action, the applicant would acquire a portion of North Conduit Avenue and the entire project site would be rezoned to a C4-2 district. The proposed C4-2 zoning would allow for a wide range of commercial uses. Commercial development trends in the surrounding area are reflective of uses that are found in and around airports such as the nearby John F. Kennedy International Airport. These uses include chain hotels, motels and warehouse/shipping uses.

1 <http://www.nydailynews.com/new-york/queens/aqueduct-racino-construction-workers-exposed-hazards-including-lead-feds-article-1.994505?localLinksEnabled=false>

2 http://www.queenscourier.com/articles/2011/03/24/news/top_stories/doc4d88a432ee6dc990080524.txt

3 <http://www.yogonet.com/english/2010/09/15/aqueduct-racino-wins-approval-from-n.y.-comptroller>

4 http://www.nyc.gov/html/dcp/html/south_jamaica/index.shtml

5 http://www.nyc.gov/html/dcp/pdf/south_jamaica/proposed_zoning_map.pdf

6 http://www.nyc.gov/html/dcp/pdf/south_jamaica/fresh_excluded_areas.pdf

The new C4-2 zoning designation would allow the development of a range of commercial uses. Based on the project site's proximity to JFK Airport and to the other hotels on both sides of the project site, the “reasonable worst case development scenario” (RWCDS) was determined to be a hotel. Therefore, the RWCDS (the basis for analyzing the potential for project impacts) is the same as the proposed project – the development of a hotel.

The proposed site plans and zoning calculations are provided in Appendix BD (With-Action Scenario Plans and Zoning Calculations). The site would support the development of a 138,384 square foot, 13-story, 344-room hotel building with 96 accessory parking spaces (21 on-grade and 75 in the cellar level), and two truck loading bays. The proposed site plan is shown in Exhibit 4. It is noted that the site plan shows the current configuration of the project site, with the 10-foot wide strip that was acquired for the street widening, taken out of Block 12095/Lots 2 and 6 since it is no longer owned by the applicant. Exhibit 5 shows the front elevation of the hotel. The parking garage would be vented via two separate vents, to the roof of the new hotel, also visible in Exhibit 5. The cellar parking level, which would be accessible via a set of ramps behind the hotel on the western portion of the site, is shown in Exhibit 6.

Analysis Framework

This Environmental Assessment Statement (EAS) has been prepared to evaluate the potential for significant environmental impacts associated with the proposed project.

Subsequent to the submission of this document, the City released a revised City Environmental Quality Review (CEQR) *Technical Manual* (June, 2012), which updates the methodologies and criteria set forth in the May 17, 2010, and the 2001 *CEQR Technical Manuals* that were the basis for the analyses contained in this EAS. This EAS was reviewed for consistency with the new criteria and methodologies contained in the *2012 CEQR Technical Manual*.

The guidance criteria in the revised manual would not alter the conclusions outlined below. As such, the analyses included in this EAS satisfy the goals of CEQR, which is to accurately assess, disclose, and mitigate to the greatest extent practicable the significant environmental consequences of a city agency’s decision to fund, directly undertake, or approve a project.

As noted above, under the existing zoning (i.e., the “no action scenario”), the project site would be developed with approximately 25,000 square feet of community facility use with parking for 83 cars. The proposed zone change to C4-2, along with the proposed street acquisition (the “with action scenario”), would result in a “reasonable worst-case development” consisting of a 344-room hotel with accessory parking for a total of 96 vehicles. The analyses presented below are based on the incremental difference between the no-action and with action development scenarios, and conclude that the proposed project would not create significant impacts as defined by the *CEQR Technical Manual*.

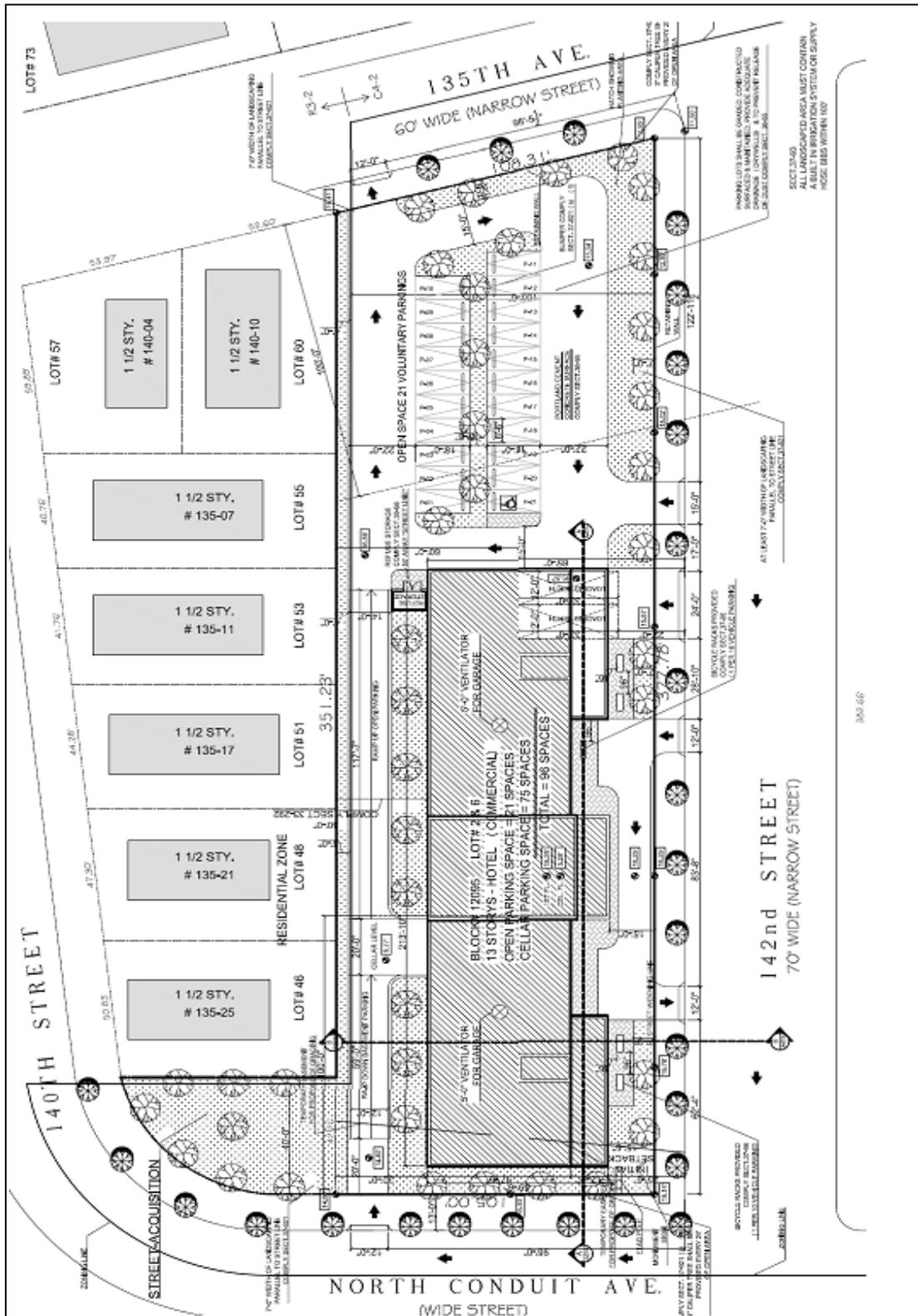


Exhibit 4: Proposed Project – Site Plan

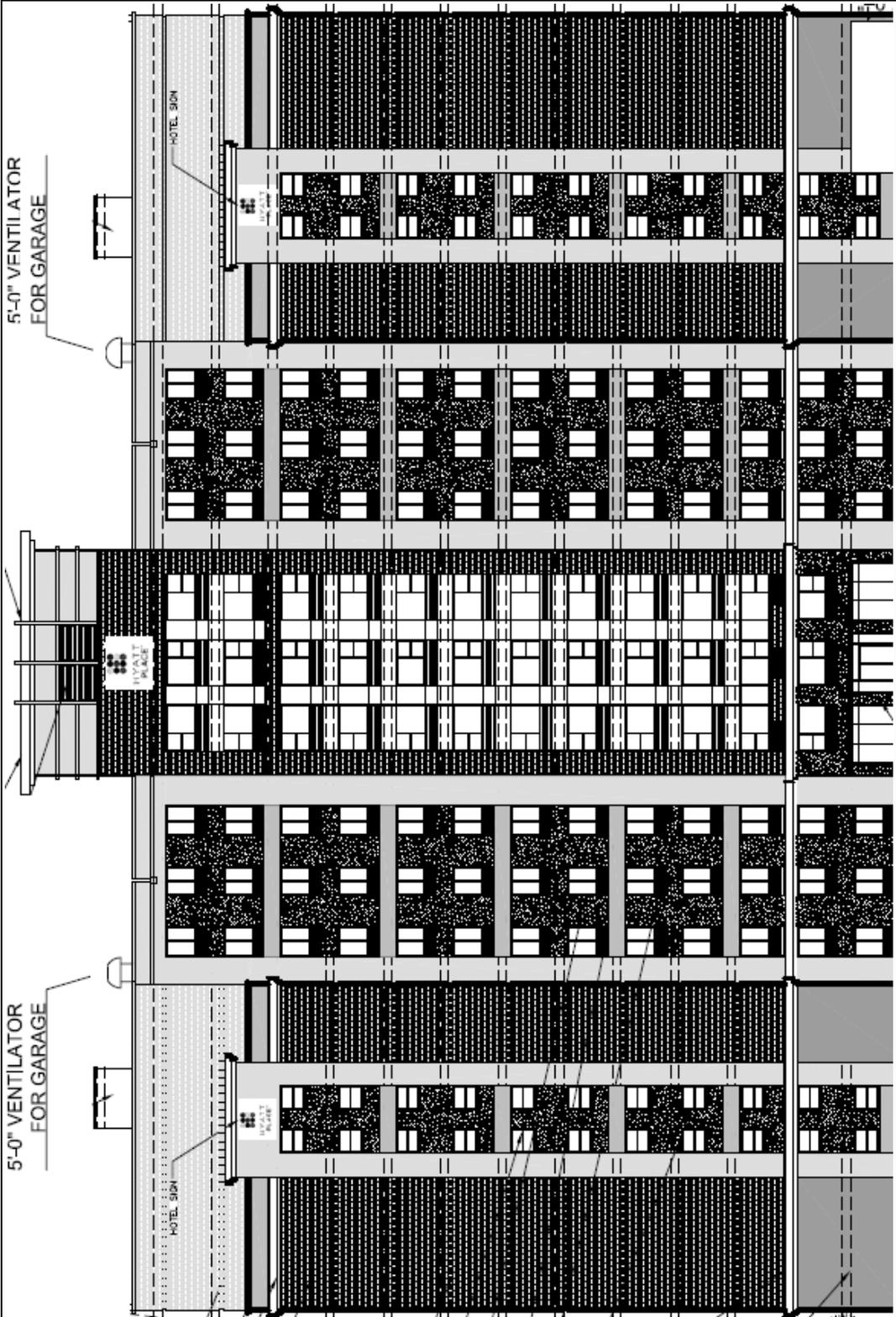


Exhibit 5: Proposed Project – Elevation

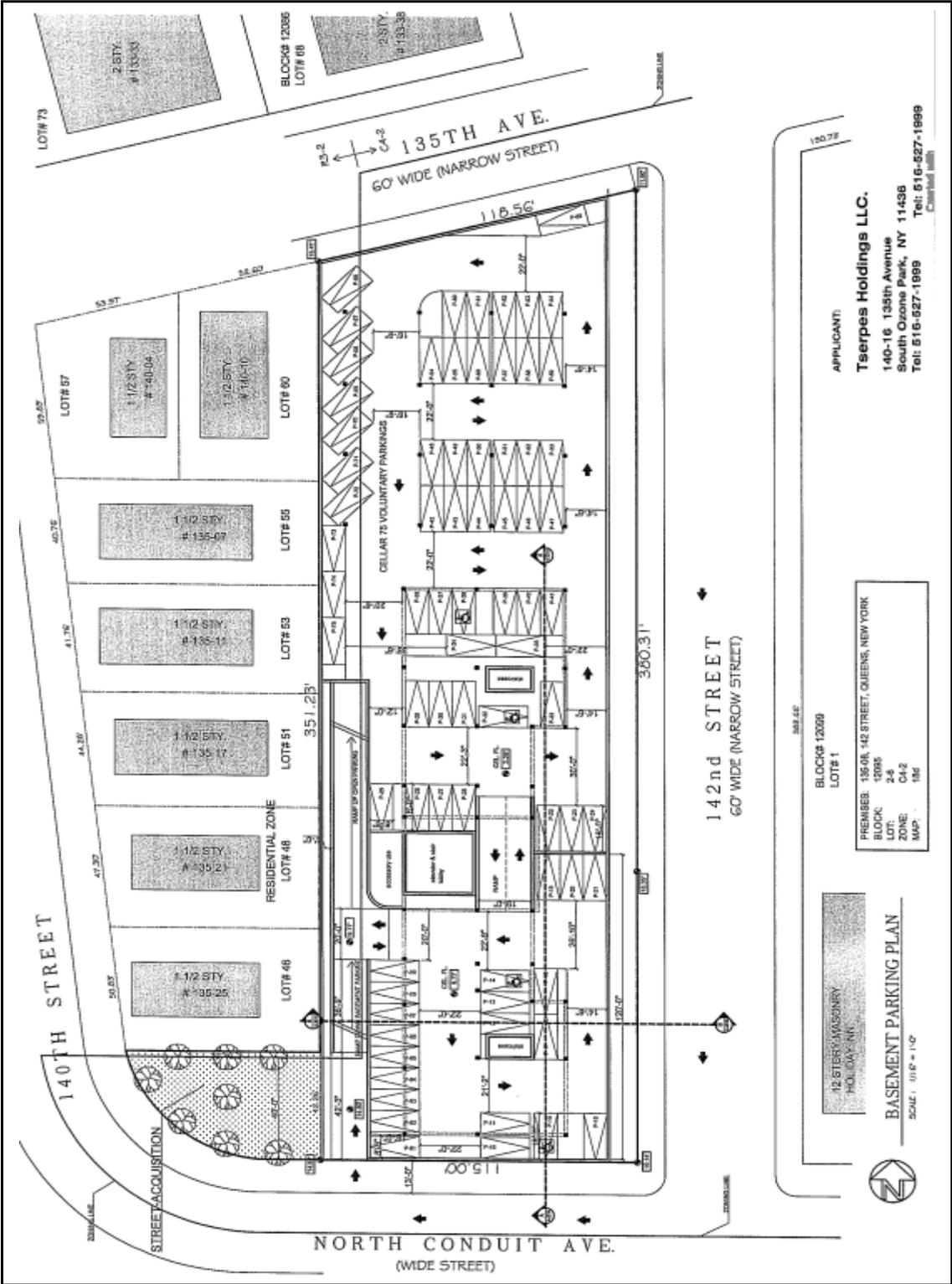


Exhibit 6: Proposed Project – Parking Level

1. Land Use Zoning and Public Policy

This section examines the potential for significant adverse impacts related to land use, zoning and public policy as a result of the proposed action. The land use study area is the 400-foot radius from the boundaries of the project site, and is shown in Exhibit 7. The study area is generally bounded by the Van Wyck Expressway to the west, North Conduit Avenue (Belt Parkway) to the south, the International JFK Airport Hotel to the east, and 133rd Avenue to the north.

Land Use - Existing Conditions

The project site consists of the eastern portion of the block bounded by 140th Street, 142nd Street, 135th Avenue and North Conduit Avenue (Block 12095, Lots 2 and 6, and a 2,429 square foot parcel through a street acquisition).

As indicated in Exhibits A-1 through A-3 (Appendix A - Photographs), the western half of the block is developed with seven detached homes on lots approximately 40 feet wide; two of the houses front on 135th Avenue and five front on 140th Street. The houses consist of one story above a high basement. The eastern half of the block (the project site) is vacant.

The area to the east of the project site is developed with three chain hotels: International JFK Airport hotel, Courtyard Marriot and Hamptons hotels – the project site and the International JFK Airport hotel just to the east are shown in A-2. The area to the west of the project site is also developed with hotels: Double Tree hotel and a nine-story building that was formerly a Carlton House hotel (shown in Appendix A, Exhibit A-3).

The rezoning area is bounded by North Conduit Avenue and the Belt Parkway to the south. The area to the north of the rezoning area is developed with single and two-family homes.

Land Use - Future Without the Proposed Action

In the future without the proposed action, it is likely that the project site would be developed with a permitted community facility development. As discussed above, the most likely development scenario under the existing zoning and absent the demapping would consist of a 25,000 square foot medical office, along with an open parking lot for 83 cars. This use represents a reasonable development scenario given the nearby residential area, and the presence of Jamaica Hospital to the north.

In addition to the medical office development described above, the No-Action land use changes include completion of Aqueduct Racino (Resorts World New York), and continued development that would be consistent with the May 11, 2011 approval of the South Jamaica Rezoning project.

As discussed above, the Aqueduct Racino development will create new employment in the area, in addition to attracting New York residents and tourists to the venue. The South

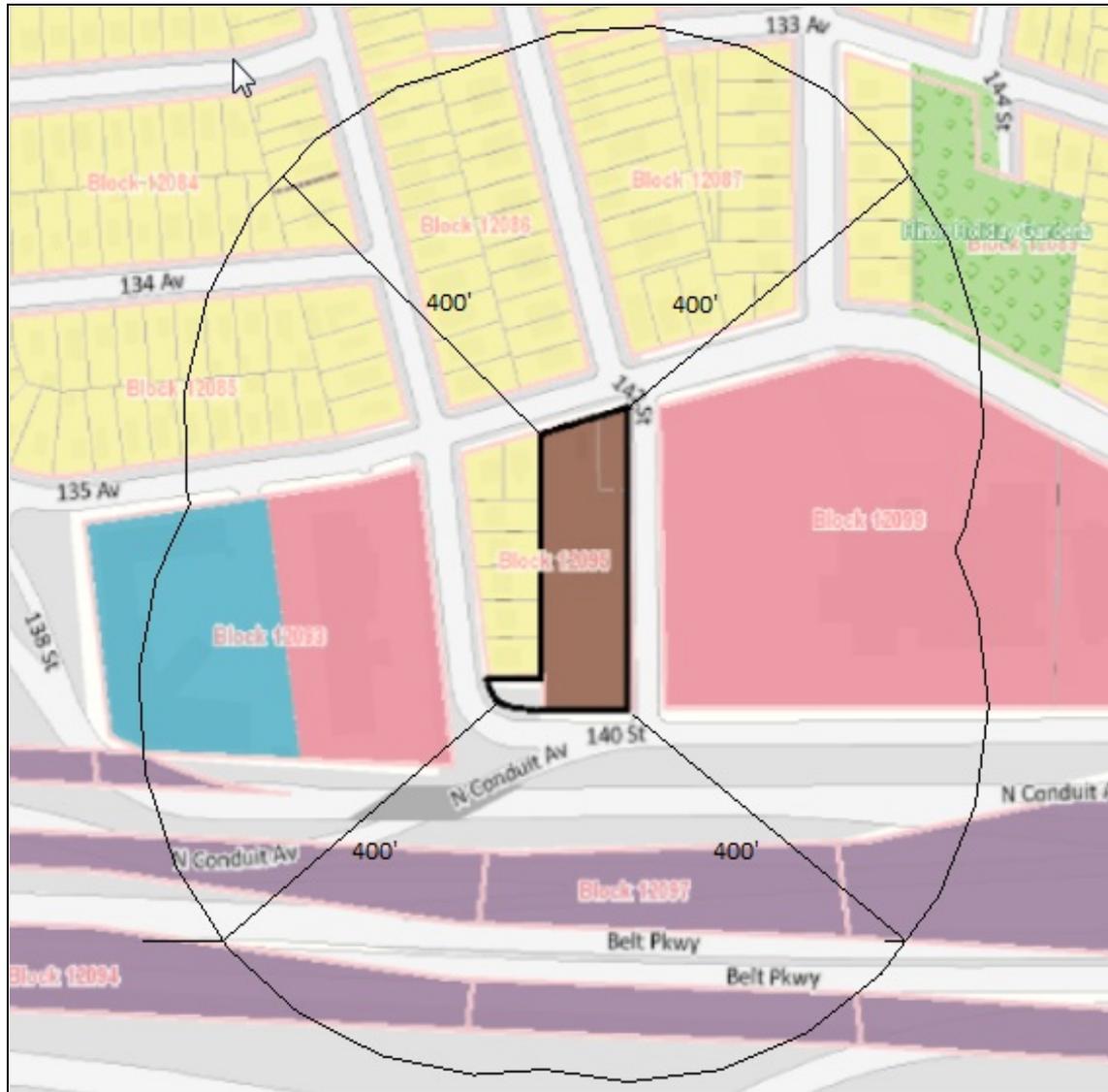


Exhibit 7: Land Use Map

Jamaica Rezoning project rezoned areas in the vicinity of the project site in order to protect the lower-density character of the neighborhoods to the north, and to allow for moderate increases in residential and commercial density along main corridors.

Land Use - Future With the Proposed Action

In the future with-action condition, a new hotel would be developed consistent with the commercial nature of this section of North Conduit Avenue. The proposed hotel would consist of 344 rooms with 96 accessory parking spaces.

Under the proposed action, a largely vacant parcel would be redeveloped in a manner consistent with surrounding uses. The location is well situated with regard to the airport, the Belt Parkway, and the Van Wyck Expressway. Additionally, the monorail along the Van Wyck Expressway (the AirTrain) has been completed as part of the City's objective of improving airport access. On-site improvements at the airport have also been constructed to enhance the airport's capacity and services. The new hotel would be provide additional accommodations near JFK Airport to support the airport's growth.

The new hotel would also be supportive of the new Aqueduct Racino, by providing additional accommodations for tourists and stop-overs who are attracted to the new venue. The proposed project would also be consistent with the land use development goals embodied in the South Jamaica Rezoning – allowing the construction of a moderate density commercial use on a site adjacent to the Belt Parkway/North Conduit corridor.

Based on the information presented above, no significant adverse Land Use impacts would result from the proposed project and no further analysis is warranted.

Zoning - Existing Conditions

The majority of the site (Lots 2 and 6) is zoned R3-2, a district which permits residential development at 0.6 FAR (including 0.1 FAR attic bonus) and community facilities at 1.0 FAR. The 2,429 square foot portion of North Conduit Avenue that is the subject of the proposed street acquisition is mapped R3A, a contextual zone that also allows only single family homes, also at 0.6 FAR including 0.1 FAR attic bonus. To the east and west are areas zoned C4-2 and developed with hotels apart from the western portion of the subject block which is developed with single- and two-family homes.

The South Jamaica Rezoning proposal rezoned areas adjacent to and north of the site (and the 2,429 square foot portion of North Conduit Avenue that is the subject of the proposed street acquisition) from R3-2 to R3A and R3-1. The rezoning did not affect the Lots 2 and 6 of the project site or the two C4-2 zones east and west of the project site along North Conduit Avenue.

The area south of the Belt Parkway, which contains JFK Airport is zoned M1-1. In addition to the airport, the area contains a mix of warehouse and industrial uses and motels.

Zoning - Future Without the Proposed Action

In the future without the proposed action, no changes in zoning are expected to occur.

In the No-Action scenario, neither the proposed zone change to C4-2, nor the proposed street demapping would not occur. The two C4-2 zones on either side of the project site would remain as they are today – not contiguous with each other. In addition, Block 12095/Lots 2 and 6 would remain the only lots zoned R3-2 in the vicinity east of the Van Wyck Expressway (refer to Exhibit 3).

It is assumed that Lots 2 and 6 would eventually be developed pursuant to the existing R3-2 zoning. As discussed, the likely development scenario for the parcel would be for community facility use.

Zoning - Future With the Proposed Action

In the future with-action conditions, the project site would be rezoned to C4-2. C4-2 districts permit 3.4 FAR of commercial development. Residential development is permitted at an R6 equivalent, allowing up to 2.43 FAR, or 3.9 FAR for non-profit housing for the elderly, or 3.0 FAR on a wide street using the optional Quality Housing program. Community facility development is permitted at 4.8 FAR.

In the future with the proposed action, the project sponsor is proposing to develop the project site with a 13-story, 344-room hotel with accessory parking for 96 vehicles. As discussed above, the proposed structure and use would be compatible with existing uses and buildings that are adjacent to the rezoning area, and the new hotel would be supportive of growth at JFK Airport and the new Aqueduct Racino.

The zoning map amendment to C4-2 would join the two C4-2 zoning districts on the properties adjacent to the Belt Parkway/North Conduit Avenue on either side of the project site, and would eliminate the R3-2 zone on Block 12095/Lots 2 and 6.

Based on the information presented above, no significant adverse Zoning impacts would result from the proposed project and no further analysis is warranted.

Public Policy – Existing Conditions

The project site is not located within the coastal zone boundaries of the Waterfront Revitalization Program, nor is the site located within a 172-C area.

Tourism represents an important part of the City's economy, contributing to employment in several areas of the leisure and hospitality, transportation, and trade sectors. New York City attracted over 50 million visitors to the city in 2011, which was ahead of its goal of 50 million visitors by 2012⁷.

The project site is located in the Jamaica Watershed Area, which is of particular significance because NYCDEP has an ongoing program that is designed to reduce pollutant levels and improve the ecology of the bay. The Jamaica Bay Plan, which is an important part of New York City's PlaNYC initiative, aims to find ways to preserve natural areas, and better manage storm water.

The plan includes upgrades to the Wastewater Treatment Plants (WTPs) that have outfalls into Jamaica Bay and the rest of the Bergen Basin, and also establishes a series of Best Management Practices that are designed to reduce the amount of stormwater and sanitary sewage that reaches the WTPs. An important part of this effort is a new analysis and tracking protocol for New York City projects undergoing environmental review. The Jamaica Plan, and how the proposed project relates to its policies, is discussed more fully below in the Infrastructure section.

Public Policy – No-Action Conditions

No changes to any public policy that affect the project site are expected in the Build Year of 2015. The South Jamaica Rezoning affected areas generally north of the site and the policies embedded in that rezoning include preserving the lower density residential neighborhoods north of the site, while allowing for moderate residential and commercial development along major corridors. Similarly, the Jamaica Bay Plan will continue to guide the City's plans to reduce pollutant levels and improve the ecology in Jamaica Bay.

Public Policy – With-Action Conditions

By providing additional hotel capacity near JFK Airport, it is the applicant's intention that the proposed action would be supportive of public policy to improve airport services and accommodations. The proposed project would provide additional accommodations near the City's International airport.

With respect to the South Jamaica Rezoning, the proposed actions would allow for the construction of a hotel use along the heavily traveled North Conduit Avenue/Belt Parkway corridor. As demonstrated in the Traffic and Noise sections below, the project site experiences moderate ambient noise levels associated with the relatively high traffic volumes along this important east-west corridor. As such, development of the proposed hotel would be consistent with the goals of the South Jamaica Rezoning that allow for moderate residential and commercial development along major corridors. Nor would the proposed action result in a development that is inconsistent with the South Jamaica goal

⁷ <http://www.reuters.com/article/2010/01/04/us-usa-tourism-newyork-idUSTRE6034AU20100104>

of preserving the low density character of the established neighborhoods. The project site is currently vacant. It is located between two hotels and adjacent to North Conduit Avenue, it is not functionally a part of the lower density residential areas to the north.

The ongoing Jamaica Bay Plan will continue to guide the City's plans to reduce pollutant levels and improve the ecology in Jamaica Bay. Because the project site is located within the Jamaica Watershed Area, a water and sewer infrastructure analysis that addresses the goals of the Jamaica Bay Plan, and discusses the proposed project's consistency with that plan, is included below in the Infrastructure section. The information and analysis in that section concludes that no significant adverse water and sewer infrastructure impacts would result from the proposed project.

Based on the information presented above, no significant adverse Public Policy impacts would result from the proposed project and no further analysis is warranted.

5. Shadows

Pursuant to CEQR, actions that would result in a structure of 50 feet in height or greater require a preliminary assessment of the potential affects of those shadows. Under the proposed action the building would have a top floor ceiling height of 127 feet above mean grade, and the height to the top of the roof top protuberances (elevator and stair bulkheads, etc.) in the middle of the building would be 150 feet above grade.

Under the no-action conditions, the site could be developed with a community facility building with maximum heights of 35 feet.

As described in the *CEQR Technical Manual*, the length of a shadow is measured at 4.3 times the building height. The highest point of the building height would be 150 feet above grade. The resulting worst-case shadow under the proposed action would therefore be approximately 645 feet in length.

A 1.2 acre publicly accessible open space resource, Hilton Holiday Gardens, is located on Block 12089, lot 8. This park was mapped by the Board of Estimate in 1967. As shown in Exhibit 8, the park is comprised of a single open grass area. There are no seating facilities or other amenities.

Although this EAS was submitted prior to the publication of the 2010 and 2012 *CEQR Technical Manuals*, a shadow analysis has been prepared that generally follows the criteria presented in the Shadow section of the new *CEQR Technical Manual* to ensure consistency with the revised shadow impact criteria. Based on the location of the project with respect to the receptor (the park), the analysis presented below represents a worst-case analysis.

The project site in relation to the Holiday Gardens park is shown below in Exhibit 9.



Exhibit 8: Hilton Gardens Park



Exhibit 9: Initial Shadow Screen and Shadow Analysis Model

A 645-foot radius was drawn from the norther portion of the new hotel, rather than the 150-foot high elevator and stair protuberances located in the middle of the new hotel. As indicated, the the closest portion of the park (the northeast corner) is located within this initial screening distance. It is noted that the park is located north of the project site, so the screening quadrants located -108 degrees and +108 degrees from true north (i.e., the areas south of the project site that cannot be shaded) are not shown in Exhibit 12. It is also noted that the 645-foot radius was drawn from the edge of the building, which overstates the potential area of shadow (i.e., represents a conservative boundary) because the 645-foot radius was calculated based on the greatest height of 150 feet which is toward the center of the building.

The three-dimensional model showing the potential for the proposed project to cast a shadow onto the park is also shown in Exhibit 9. The buildings to the left and right of the project site are the Hamptons Inn and the Holiday Gardens respectively.

Tier 3 Screening Assessment

As indicated in Exhibit 9, a portion of the park falls within the area of potential shadow, so the Tier 3 screening assessment has been performed, consistent with the *2012 CEQR Technical Manual* methodology to determine if shadows resulting from the proposed action can reach the park during four representative days: December 21, March 21, May 6/August 6 and June 21. These are shown in Exhibits 10 through 13. Note that the landscape in these exhibits has been shaded in order to more clearly show the shadow outlines, and both the 645-foot radius corresponding to the 150-foot height center of the building, and the 546-foot radius corresponding to the 127-foot height at the edge of the proposed building, are shown on these exhibits.

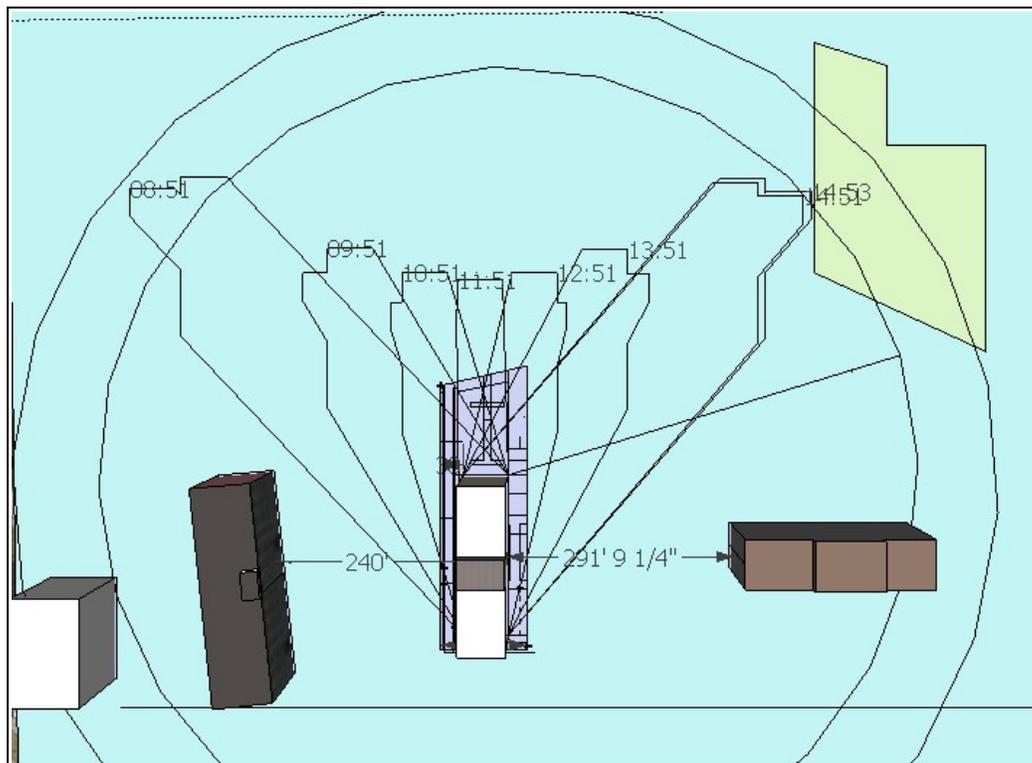


Exhibit 10: Tier 3 – December 21 Shadows

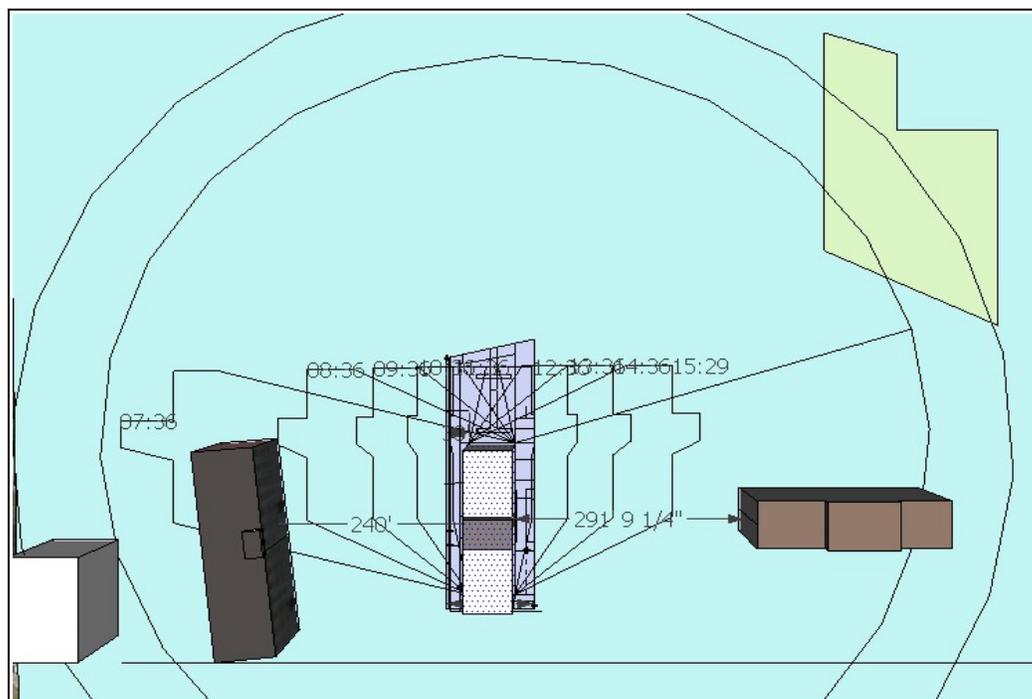


Exhibit 11: Tier 3 – March 21 / September 21 Shadows

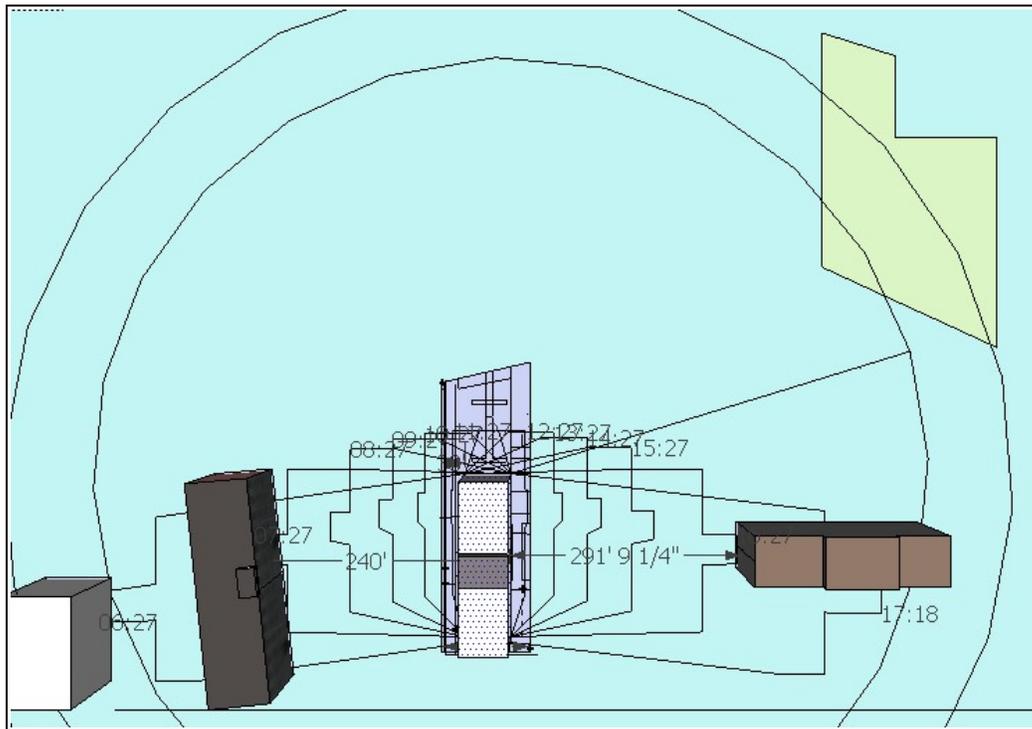


Exhibit 12: Tier 3 – May 6 / August 6 Shadows

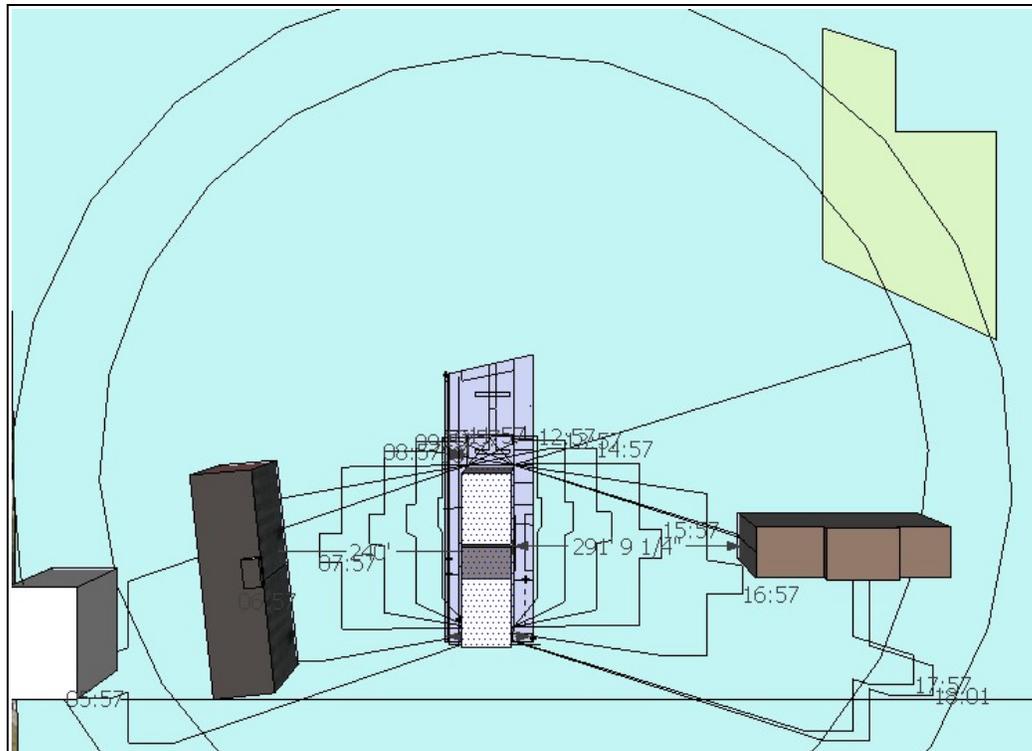


Exhibit 13: Tier 3 – June 21 Shadows

Examination of the Tier 3 exhibits indicates that incremental shadows from the proposed building would not reach the sunlight-sensitive resource (the Holiday Gardens Park) during any of the analysis days. Consistent with the guidelines presented in the *CEQR Technical Manual*, all the Tier 3 analyses presented above are based on eastern standard time (UTC-5).

The only analysis day that the shadow comes close to the park is on the winter solstice (December 21) when the project shadow falls just short of the park at the end of the analysis period at 2:53 PM. just reaches the park. In order to be certain that the shadow diagrams accurately model actual conditions, the grade elevations at the project site have been compared to the grade elevations at the park. The project site grade elevation is approximately 20 feet above mean sea level while the corresponding elevations at the park are approximately 13 feet. Therefore, a further analysis has been prepared for the December 21 analysis day in which the proposed hotel building height was raised by seven (7) feet to account for the difference in elevations. As shown in Exhibit 14 (the 7-foot increase in height is highlighted in red), with this adjustment, the hotel shadow would actually enter the park at 2:49 PM, or four (4) minutes earlier than without the adjustment in height.

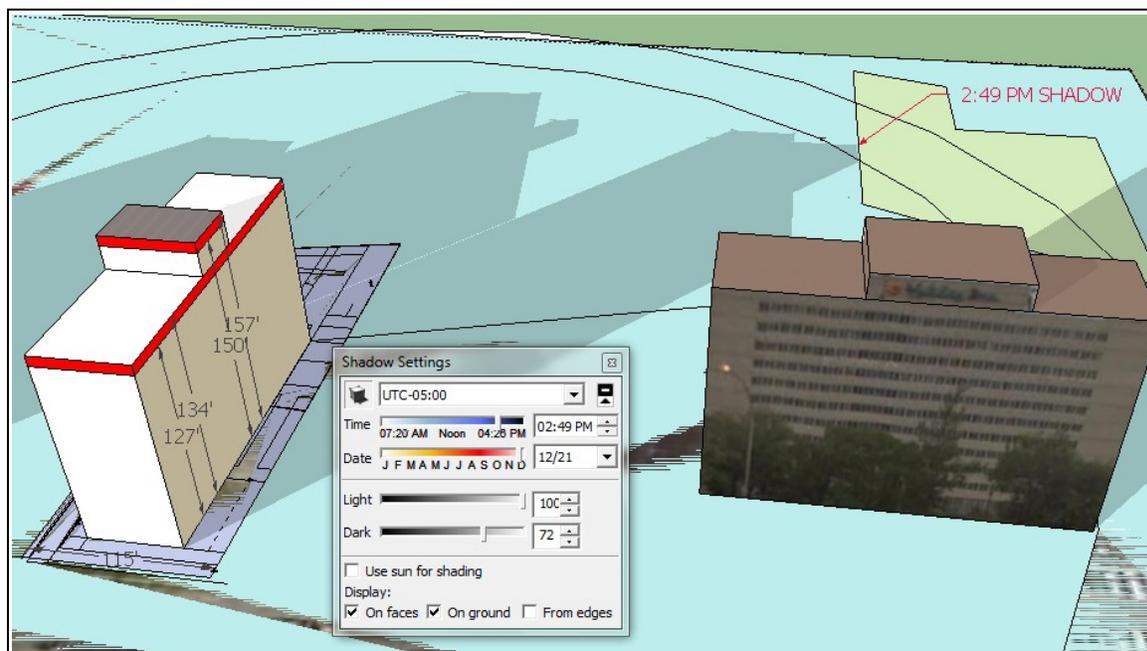


Exhibit 14: Tier 3 December 21 Shadows with 7-Foot Height Adjustment at 2:49 PM

As shown in Exhibit 15, the project shadow would still be present on a small portion of the park at the end of the analysis period of 2:53 PM, four (4) minutes later.

Table 1, Shadow Analysis Summary, shows the time-frame windows that reflect the shadow entry and exit times, and incremental shadow duration, on Holiday Gardens Park.

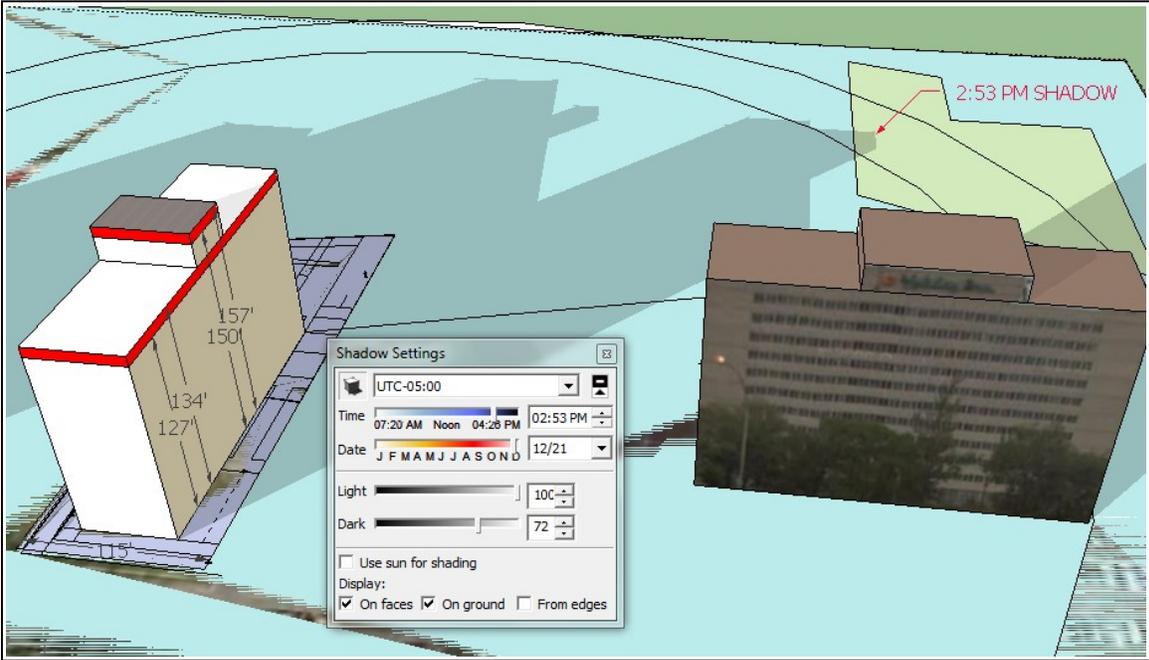


Exhibit 15: Tier 3 December 21 Shadows with 7-Foot Height Adjustment at 2:53 PM

**Table 1
 Shadow Analysis Summary**

Analysis Day	DEC 21	MAR 21/SEP 21	MAY 6/AUG 6	JUN 21
Timeframe Window	8:51 AM – 2:53 PM	7:36 AM – 4:29 PM	6:27 AM – 5:18 PM	5:57 AM – 6:01 PM
Shadow Enter-Exit Time	2:49 PM – 2:53 PM	--	--	--
Incremental Duration	4 Minutes	--	--	--

As indicated in Table 1, the project shadow would enter the park at 2:49 PM and persist until the end of the analysis period four (4) minutes later at 2:53 PM, for a total time of four (4) minutes. Consistent with the guidelines presented in the *CEQR Technical Manual*, shadows less than 10 minutes in duration are not considered to be significant. Project generated shadows do not enter the park on any of the other analysis days.

No significant adverse shadow impacts would result from the proposed project and no further analysis is warranted.

6. Historic Resources

Because the proposed action would result in new development that could disturb any archaeological remains on site, an assessment of site potential was conducted pursuant to *CEQR Technical Manual* methodology.

Existing Conditions

Architectural Resources:

The only designated historic resource in the vicinity of the affected area is the TWA Terminal in JFK Airport. This structure is located over a mile from the affected area. The surrounding area contains low-density residences constructed since the 1920s and high-rise, chain hotels constructed from the 1950s on.

Archaeological Resources:

Based on a review of historic land use maps, it appears that the southern portion of the proposed development site has never been developed, while the northern portion contained several detached homes constructed in the early twentieth century. The project site has been cleared. The western half of the affected block, which is not part of the proposed action, contains seven detached homes. These houses were constructed in the 1950s or 1960s.

As discussed above, the project site is vacant and therefore contains no structures of archaeological significance. The proposed project has been reviewed by the NYC Landmarks Preservation Commission (LPC). The LPC has determined that the properties comprising the project site are not likely to contain any significant archaeological resources that would be disturbed by construction on the site. The LPC letter of determination is attached in Appendix F.

Future Without the Proposed Action

Archaeological Resources:

In the future without the proposed action, it is likely that residential and community facility development would occur in the affected area. Such as-of-right development has no potential to destroy any archaeological resources on the site since it has been disturbed during construction of the single family homes that were previously constructed on the project site. The LPC letter of determination is also attached in Appendix F.

Architectural Resources:

Since there is no line of sight from the project site to the TWA Terminal, there is no

potential for no-action development to affect its context.

Future With the Proposed Action

Archaeological Resources:

In the future with the proposed action the project site would be rezoned for commercial use. The project sponsor is proposing to construct a 13-story, 344-room hotel with accessory parking for 96 vehicles. As discussed above, the LPC has determined that the site is not likely to contain any significant archaeological resources that would be disturbed by project development.

Architectural Resources:

The only historic architectural resource in the vicinity of the affected area is not visible from the project site. Therefore, the proposed action would not result in significant adverse impacts related to historic resources.

Based on the information presented above, no significant adverse Historic Resources impacts would result from the proposed project and no further analysis is warranted.

7. Urban Design and Visual Resources

The proposed project would result in the development of a vacant parcel for a hotel that would be similar in its urban design characteristics to surrounding development along North Conduit Avenue, and would be consistent with the urban design features of the surrounding area. As described below, no adverse impacts to urban design and visual resources are anticipated.

Existing Conditions

The urban design character of the areas to the east, west and south of the affected area is dominated by the airport, highways, and airport-related uses such as hotels and car rental establishments. To the north of the affected area, urban design is characterized by small, detached houses on lots of varying sizes. The hotels to the east and west are up to 14 stories in height, and surrounded with surface parking and driveways. To the south of the affected area is a wide expanse of roadways, including North Conduit Avenue, the Belt Parkway, and Nassau Expressway. Beyond that are the buildings, roads, and runways of JFK International Airport.

The affected area consists of the eastern portion of the block, bounded by 135th Avenue, 140th Street, North Conduit Avenue, and 142nd Street. The western half of the block is developed with seven detached homes on lots approximately 40 feet wide; two of the houses front on 135th Avenue and five front on 140th Street. The houses consist of one

story above a high basement. The eastern half of the block (the project site) is vacant land.

The existing urban design and visual resources conditions are shown in Exhibits A-1 through A-3 (Appendix A – Site Photos), which include the undeveloped project site on the eastern portion of Block 12095, along with the existing homes that are built on the western portion of the block. Also shown in these exhibits there are the two hotels that are built on the C4-2 zones east and west of the project site.

The street pattern in the area consists of major limited-access highways such as the Belt Parkway, Nassau Expressway, and Van Wyck Expressway, which are functionally separate from the local street network north of North Conduit Avenue. Blocks are somewhat irregular, due to shifts and discontinuities in the street grid.

Future Without the Proposed Action

In the future without the action, existing urban design conditions are likely to remain. Development in the affected area of a community facility use is likely. This would produce buildings of up to 35 feet in height. Such development would be similar in its urban design characteristics to development to the north, but would not be entirely compatible with adjacent blocks to the east and west of the rezoning area and nearby airport-related commercial development along North Conduit Avenue. No changes to street patterns would occur.

Future With the Proposed Action

Development under the proposed action would be consistent with existing urban design along this stretch of North Conduit Avenue which is developed with high rise hotels. As shown in the proposed action site plan and elevation drawings (Appendix BD), as well as in the 3-dimensional shadow diagrams, the proposed project would result in hotel building of greater height than what could be developed on-site absent the proposed action (35 feet). The proposed hotel would be similar to existing development immediately to the east and west. The project site would be served by two curb cuts on North Conduit Avenue and four curb cuts along 142nd Street. This would be consistent with existing patterns, in which airport-related commercial uses front on North Conduit Avenue. There would be no alterations to street patterns. No significant adverse Urban Design and Visual Resources impacts would result from the proposed project and no further analysis is warranted .

8. Natural Resources

The affected area consists of an a vacant, cleared area that would be redeveloped commercially under the proposed action. The affected area does not support any rare or significant natural vegetation. The surrounding area is developed with commercial,

residential, and highway uses.

However, the project site is located within the Jamaica Watershed Area, which is of particular significance because NYCDEP has an ongoing program that is designed to reduce pollutant levels and improve the ecology of the bay. The Jamaica Bay Plan, which is an important part of New York City's PlaNYC initiative, aims to find ways to preserve natural areas, and better manage storm water.

As noted above in the Public Policy section, the plan includes upgrades to the Wastewater Treatment Plants (WTPs) that have outfalls into Jamaica Bay and the rest of the Bergen Basin, and also establishes a series of Best Management Practices that are designed to reduce the amount of stormwater and sanitary sewage that reaches the WTPs. An important part of this effort is a new analysis and tracking protocol for New York City projects undergoing environmental review. The Jamaica Plan, and how the proposed project relates to its policies, is discussed more fully below in the Infrastructure section.

Because of the absence of significant natural resources in the immediate vicinity of the affected area, and because construction of the proposed project will be in conformance with the water and sewer infrastructure guidelines discussed below, no adverse impacts related to natural resources are anticipated, and pursuant to the 2012 *CEQR Technical Manual*, no significant adverse Natural Resources impacts would result from the proposed project and no further analysis is warranted.

9. Hazardous Materials

For hazardous materials, the goal of CEQR is to determine whether the proposed action could lead to increased exposure of people or the environment to hazardous material and whether the increased exposure would result in significant health impacts or environmental damage. A hazardous material is any substance that poses a threat to human health or the environment.

The proposed action would facilitate the development of a vacant parcel along North Conduit Avenue. Based on the history of the site and surrounding parcels, and based on the Phase I and Phase II Environmental Site Assessments that were prepared for the project site, no adverse impacts related to hazardous materials are anticipated.

PHASE I ESA

A Phase I Environmental Site Assessment (ESA) was prepared by Evan Lemonides Associates for the project site in May 2009 (revised September 23, 2009 – Appendix C). The Phase I ESA indicates that the project site is not currently, nor was it historically, involved in the generation, treatment, storage, or disposal of hazardous waste. The following were not identified in the Phase I ESA:

-
- Underground storage tanks
 - A radon hazard condition;
 - Noxious odors;
 - PCB-containing transformers or other equipment;
 - Evidence of asbestos or asbestos-covered piping,
 - Areas of stained flooring, concrete, soil or stressed vegetation; or
 - Adjoining properties with Recognized Environmental Conditions.

Based on a review of the Phase I ESA, NYSDEP determined that due to a number of minor releases occurring at remote (generally ¼ to ½ mile) off-site properties up-gradient of the site, and due to the presence of a thin veneer layer of fill material at the surface of the ground, further investigation would be necessary to confirm the conclusions presented in the Phase I ESA.

PHASE II ESA

A Phase II Environmental Site Assessment (ESA) was prepared by Brickhouse Environmental Consultants for the project site in September 2010 (Appendix D).

The Phase II ESA was conducted in accordance with the April 2010 Work Plan and HASP for the site that was prepared by Soil Mechanics Environmental Services (SMES) and subsequently approved by NYCDEP in a letter dated June 1, 2010. The Work Plan, HASP, and Phase II ESA are attached in the Appendix.

The Phase II ESA soil analytical results were compared to NYSDEC Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives. The groundwater results were compared to the NYSDEC Part 703: Surface Water and Groundwater Quality Standards for Class GA Groundwater, which are minimal standards applicable to potable drinking water wells.

Soils

No compounds were identified above laboratory method detection limits in soil samples from the site for the analysis of VOCs, semi-volatile organic compounds – base neutrals, pesticides, and PCBs. Typical concentrations of various naturally occurring metals were detected in the soil samples. However, none of these detections exceeded the respective NYSDEC Unrestricted Use Soil Cleanup Objective. Soil quality meeting these standards indicates that there would be no restrictions for the use of soils from the site and that future land development would not be restricted with respect to soil quality.

Groundwater

Groundwater at the site is approximately 12 to 19 feet below grade indicating a clear gradient from north to south toward Jamaica Bay approximately 2 miles south of the site.

No compounds were identified above laboratory method detection limits in groundwater samples from the site for the analysis of VOCs, semi-volatile organic compounds – base neutrals, pesticides, and PCBs. These results confirm the absence of environmental impact to site groundwater from the remote upgradient off-site releases identified by NYCDEP review of the September 2009 Phase I ESA that was prepared by ELA.

Typical concentrations of various naturally occurring metals were detected in the groundwater samples. The metals iron, manganese, sodium, and cobalt were detected in slight exceedance of the Class GA (i.e., fresh groundwater) groundwater standards in MW-1. Sodium was the only metal detected above the standard in MW-2. Cobalt, manganese, and sodium were detected above their respective standards in MW-3. No patterns were observed in the occurrence of these metals across the site, with groundwater flowing onto the property at the upgradient northern property line present in the same general range of concentrations as the groundwater flowing beyond the downgradient property line.

Although the metals Iron, Sodium, cobalt and Manganese have concentrations slightly exceeding the respective NYSDEC class GA groundwater standards, these metals are typically found in shallow groundwater and are generally considered to be naturally occurring. These releases do not indicate environmental impact from onsite or offsite releases of hazardous substances or petroleum products. Rather, the results reflect the natural interaction of groundwater with the sand comprising the aquifer materials. Use of this groundwater for drinking purposes would require appropriate filtration of other means of treatment on order to meet applicable drinking water standards.

Existing Conditions

The site is zoned R3-2 and R3A, which limits development to residential and community facilities. None of the current uses on the site or adjacent parcels raise concerns about hazardous materials. No hazardous materials are generated, used, stored, or disposed by any of the adjoining uses. As noted above, the project site and has only been previously developed for residential use. None of these land uses are associated with the use, manufacture, storage or disposal of hazardous materials.

Based on the results of the Phase I and Phase II ESAs, there are no hazardous materials present in the soils. As discussed above, the metals Iron, Sodium, cobalt and Manganese have concentrations slightly exceeding the respective NYSDEC class GA groundwater standards. However, these metals are typically found in shallow groundwater and are generally considered to be naturally occurring. These do not indicate environmental impact from on-site or off-site releases of hazardous substances or petroleum products.

Future Without the Proposed Action

In the future without the proposed action, it is likely that as-of-right community facility development within the affected area would occur. Given the history and existing conditions of the project site and surrounding parcels, no adverse effects are likely. It is noted again that no hazardous materials were discovered in the soils and although the metals Iron, Sodium, cobalt and Manganese have concentrations slightly exceeding the respective NYSDEC class GA groundwater standards, these metals are typically found in shallow groundwater and are generally considered to be naturally occurring. It is further noted that the water table varies from 16 to 19 feet below grade, which would likely be lower than the deepest excavations for a community facility (No-Action) development. Finally, metals are unlikely to vaporize and permeate through the soils, so the slightly elevated levels of the four metals in the ground water would pose no threat during the excavation phases of the No-Action development.

Future With the Proposed Action

Under the proposed action, the eastern half of the affected area would be developed for hotel use. This use is not associated with the generation, use, storage, or disposal of hazardous material. As described for existing conditions, there are no past uses on or adjacent to the site that may have resulted in hazardous materials conditions which could be affected by new construction associated with the proposed action.

As discussed above, no hazardous materials were discovered in the soils and although the metals Iron, Sodium, cobalt and Manganese have concentrations slightly exceeding the respective NYSDEC class GA groundwater standards, these metals are typically found in shallow groundwater and are generally considered to be naturally occurring. It is further noted that the water table varies from 16 to 19 feet below grade, which would be lower than the deepest excavations for the proposed hotel development, which would only have excavations no deeper than approximately 12 feet below grade. Finally, as discussed above, metals are unlikely to vaporize and permeate through the soils, so the slightly elevated levels of the four metals in the ground water would pose no threat during the excavation phases of the proposed development.

The proposed use of the site is for a hotel that would use an off-site public drinking water source. Therefore, the presence of naturally occurring metals in the water table aquifer beneath the site should not restrict the future development of the site.

No significant adverse hazardous materials impacts would result from the proposed project and no further analysis is warranted .

Construction Health and Safety Plan

A preliminary construction health and safety plan has been completed for the proposed project, and is included in Appendix E. Prior and during construction of the proposed project, the applicant will ensure that appropriate safety measures are taken, in accordance with all US Occupational Safety and Health Administration (OSHA), and NYC Department of Buildings and Department of Environmental Protection, and other relevant agency requirements.

Based on the information presented above, no significant adverse Hazardous Materials impacts would result from the proposed project and no further analysis is warranted

10. Infrastructure

As defined in the 2012 *CEQR Technical Manual*, infrastructure comprises the physical systems that support populations and include structures such as water mains and sewers, bridges and tunnels, roadways, and electrical substations. Because these are static structures, they have defined capacities that may be affected by growth in a particular area. This section addresses how the project may affect the City's water and sewer infrastructure.

EXISTING CONDITIONS

The project site is located in the Bergen Basin drainage area, and is in an area served by separate storm and sanitary sewers. The storm sewers empty at outfalls into Jamaica Bay, and the sanitary sewerage is conveyed to the Jamaica Wastewater Treatment Plant (WWTP).

Water Supply

Currently, there is no water usage at the site of the proposed project because the site is vacant.

Sanitary Sewage

The project site is currently vacant and has no built structures. Therefore, the project site does not generate any sanitary sewage demand.

Stormwater Runoff

The proposed site is comprised of just under 1 acre of pervious surface, such as grass and soil. The volume of runoff generated by these surfaces varies depending on the type of

surface coverage, which can be pervious (e.g., grassed areas) or impervious (e.g., roofs, sidewalk). Stormwater generated on the project site either infiltrates into the ground in areas of pervious ground cover, flows off-site as runoff, or evaporates. Currently, there are no connections to the City’s sewer system for stormwater runoff generated on the site of the proposed project.

FUTURE WITHOUT THE PROPOSED ACTION

In the future without the proposed action (No Action Scenario), the +/- 38,000 square foot site would support the development of a 25,000 square foot medical office, along with at-grade parking for 83 cars.

Water Supply

The New York City water supply system comprises three watersheds north and northwest of the City: the Delaware, Catskill and Croton. The system has 19 collecting reservoirs, two balancing reservoirs, aqueducts and tunnels with several dams, three major aqueducts and two large water distribution systems, with a third major tunnel under construction. The current average daily water consumption for the City is an estimated 1.3 billion gallons per day (gpd) according to DEP, the municipal agency responsible for its operation.

As summarized in Table 1, the No Action Scenario would result in an associated water demand of approximately 6,750 gpd. While new water supply connections for the site will be needed, this comparatively nominal water usage rate would not impact the City’s water supply and distribution facilities. Therefore, the No Action Scenario is not expected to result in any potential significant adverse impacts on water supply.

**Table 1
 No Action Scenario Water Usage**

Land Use	Water Use	Size	Rate	TOTAL USAGE
Medical Office	Domestic	25,000 SF	0.10 gpd/sf	2,500 gpd
Medical Office	Air Conditioning	25,000 SF	0.17 gpd/sf	4,250 gpd
				6,750 gpd

Sanitary Sewage

The project site is located in the Bergen Basin drainage area, and is in an area served by separate storm and sanitary sewers. Any sanitary sewerage generated under the No Action Scenario would be conveyed to the Jamaica Wastewater Treatment Plant (WWTP).

Based on the water consumption rates above, connection to the fronting sanitary sewer will be necessary to discharge sanitary sewage from the site. As summarized in Table 2, the No Action Scenario would result in associated sanitary sewage generation of approximately 2,500 gpd. This comparatively nominal rate of wastewater discharge is not expected to affect wastewater conveyance or treatment facilities. The applicant will coordinate with DEP's Bureau of Water and Sewer Operations to secure the appropriate sewer connections for the discharge of sanitary sewage. The increase in sanitary and stormwater flows on the separate sewer facilities is discussed below under stormwater. Therefore, the No Action Scenario is not expected to result in any potential significant adverse impacts on wastewater conveyance and treatment facilities.

Table 2
No Action Scenario Wastewater Flows

Land Use	Size	Total Sewage Generation
Medical Office	25,000 SF	2,500 gpd

Stormwater Runoff

The No Action Scenario would increase impervious surfaces onsite and, consequently, stormwater runoff generated. Table 3 lists the surface types and corresponding runoff coefficients under the No Action Scenario. The information in Table 3 results in a weighted runoff coefficient for the No Action Scenario of 0.78.

Table 3
No Action Scenario Project Site Surface Conditions

Weighted Runoff Coefficient, C				
Surface Type	Roof	Pavement & Walks	Other	Grass and Softscape
Surface Area (SF)	4,200 SF	34,878 SF	0 SF	5,415 SF
Runoff Coefficient	1.00	0.85	0.85	0.20

Coupled with the increase in sanitary sewage from the site, increased flow to separate storm sewers that directly discharge to Jamaica Bay’s Bergen Basin is expected. As shown in Table 4, depending on the rainfall volume and duration, the total volume discharged to Bergen Basin would be between 0.00 and 0.05 MGD.

Table 4
No Action Scenario Stormwater Runoff Volumes to Bergen Basin

Rainfall Volume (inches)	Rainfall Duration (hours)	Stormwater Runoff Volume to Bergen Basin (Direct Drainage, MGD)
0.00	3.80	0.00
0.40	3.80	0.01
1.20	11.30	0.03
2.50	19.50	0.05

FUTURE WITH THE PROPOSED ACTION

The proposed project would support the development of a 138,384 SF, 344-room hotel building with 96 accessory parking spaces (21 at-grade and 75 below grade), and two truck loading bays.

Water Supply

As summarized in Table 5, the proposed project would result in an associated water demand of approximately 83,161 gpd. New water supply connections for the site will be needed and the water usage rate would increase compared to the No Action Scenario. However, the rate estimated for the proposed action would not impact the City’s water supply and distribution facilities. Water supply would likely be from the new 10-inch water main that replaced the existing 8-inch water main beneath 140th Street.

**Table 5
 Proposed Project/With Action Water Usage**

Land Use	Water Use	Size	Rate	TOTAL USAGE
Hotel	Domestic	344 Rooms (1.25 persons/room)	1.50 gpd	<u>51,600 gpd</u>
Hotel	Air Conditioning	<u>138,384</u> SF	0.17 gpd/sf	<u>23,525 gpd</u>
				<u>75,125 gpd</u>

The applicant will coordinate with DEP’s Bureau of Water and Sewer Operations and Customer Service to secure the appropriate water connections and meters. Therefore, the proposed project is not expected to result in any potential significant adverse impacts on water supply.

Sanitary Sewage

The project site is located in the Bergen Basin drainage area and is in an area served by separate storm and sanitary sewers. With Action sanitary sewage would be conveyed to the Jamaica Wastewater Treatment Plant (WWTP) that also discharges into Jamaica Bay and has a rated capacity of 100 million gallons per day.

Based on the water consumption rates above, connection to the fronting sanitary sewer will be necessary to discharge sanitary sewage from the site. As summarized in Table 6, the proposed project would result in associated sanitary sewage generation of approximately 51,600 gpd.

Table 6
Proposed Project/With Action Wastewater Flows

Land Use	Size	TOTAL SEWAGE GENERATION
Hotel	<u>344</u> Rooms (1.25 persons/room)	<u>51,600</u> gpd

The 51,600 gpd associated with the Proposed Project is a net increase of 49,100 gpd over the No Action Scenario (95% increase) and a 100% increase over existing conditions. 51,600 gpd represents approximately 0.049 percent of the capacity of the Jamaica WWTP. This wastewater discharge is not expected to affect wastewater conveyance or treatment facilities.

As a result of the recent sewer and water main construction project, there are multiple sewers that the proposed project would be able to connect to, offering several options for the conveyance of the project’s storm and sanitary sewage. A potential scenario would be to connect to the newly-constructed 10-inch sanitary sewer running beneath 142nd Street for sanitary sewage. Another option for disposing of all or a portion of the site’s sanitary sewage would be to connect to the 10-inch sanitary sewer that runs beneath 135th Avenue along the northern portion of the site. The applicant will coordinate with DEP’s Bureau of Water and Sewer Operations to secure the appropriate sewer connections for the discharge of sanitary sewage.

Self-certification of house or site connection proposals for sewer connections will not be permitted by DOB or DEP in connection with proposed new developments or expansion of existing development as per the Rules of the City of New York, “Rule Governing House/Site Connections to the Sewer System.” There are no plans to amend the drainage plan for the proposed affected area or upgrade the affected sewer system. Therefore, to be issued a permit to connect a City sewer system, the applicant would be required to submit a site specific hydraulic analysis to DEP for review and approval. The site-specific hydraulic analysis would establish the adequacy of the existing separate sewer system that would serve development on the development site. Based on this site specific hydraulic analysis, incorporation of additional BMPs may be required of the applicant at the time of the site connection proposal. Therefore, the proposed project would not result in potential significant adverse impacts to the sanitary sewer and conveyance system.

Stormwater Runoff

Table 7 compares existing site surface conditions to site conditions under the proposed project. The runoff coefficient would increase from 0.20 under existing conditions to 0.72 under the proposed project. Coupled with the increase in sanitary sewage from the site, increased flow to separate storm sewers that directly discharge to Jamaica Bay’s Bergen Basin is expected. Stormwater flows could be conveyed to the newly-constructed 18-inch

storm sewer that runs under North Conduit Avenue.

Table 7
Comparison of Existing and Proposed Project/With Action Site Surface Conditions

Surface Type	Roof		Pavement & Walks		Grass and Softscape	
Surface Area (SF)	Existing	With Action	Existing	With Action	Existing	With Action
		0 SF	12,840 SF	0 SF	<u>16,654 SF</u>	<u>40,702 SF</u>
Runoff Coefficient	1.00	1.00	0.85	0.85	0.20	0.20

Development of the currently vacant site (in both the No Action and With Action conditions) would add impervious surfaces that include buildings and paved areas. See Table 8 for a comparison of Existing, No Action and With Action runoff volumes to Bergen Basin.

Table 8
Comparison of Existing, No Action and With Action Stormwater Runoff Volumes to Bergen Basin

Rainfall Volume (inches)	Rainfall Duration (hours)	Existing Conditions (direct drainage, mg)	No Action (direct drainage, mg)	With Action (direct drainage, mg)	% Change from Existing to Proposed Project
0.00	3.80	0.00	0.00	0.00	0%
0.40	3.80	0.00	0.01	0.01	N/A
1.20	11.30	0.01	0.03	0.02	100%
2.50	19.50	0.01	0.05	0.05	400%

As a result of the sewer and water main construction project described above, there are multiple sewers that the proposed project would be able to connect to, offering several options for the conveyance of the project's storm and sanitary sewage. Although it is premature to determine the exact configuration of the project's water and sewer connections, a likely scenario would be to connect to the newly-constructed 18-inch storm sewer that runs under North Conduit Avenue for storm water, and to a new 10-inch sanitary sewer running beneath 142nd Street for sanitary sewage. Another option for

disposing of all or a portion of the site's sanitary sewage would be to connect to the 10-inch sanitary sewer that runs beneath 135th Avenue along the northern portion of the site. Under both scenarios, the portion of the site corresponding to the area to be demapped would remain unpaved, open grassland. It is important to note that providing the parking garage minimizes the amount of paved areas needed for on-grade parking and leaves a significant portion of the site “soft” - planted areas that would allow for the percolation of storm water directly into the site soils.

Because the proposed project would increase untreated stormwater runoff to Bergen Basin and Jamaica Bay, it is the applicant's intention to implement stormwater best management practices (BMPs) to offset increased flows, and for the development to be consistent with policies set forth in Mayor's PlaNYC 2030, Sustainable Stormwater Management Plan (2008) and NYC Green Infrastructure Plan (2010). A BMPs concept plan has been developed to ensure that stormwater management systems are identified during initial site planning. The concept plan considers the New York State Department of Environmental Conservation requirements related to the development of a Stormwater Pollution Prevention Plan (SWPPP).

Stormwater Best Management Practices Concept Plan

This BMP concept plan was developed to illustrate the opportunities for development of the Proposed Project to incorporate onsite stormwater source controls during site planning and building design phases of project development.

As described in the Project Description section, and also summarized in Table 7 above, construction of the proposed hotel development on the +/- 1 acre site would result in +/- 13,000 square feet of the site being covered by roof, +/- 16,500 square feet being composed of pavement and walkways, and the remaining +/- 11,000 square feet remaining grasses and other softscaped areas.

BMPs suitable for this development configuration include green roofs and blue roofs, which would retain or release stormwater with slowed discharge rates to control peak runoff rates. Trees planted per NYC's street tree requirements in the softscape areas could also be constructed to capture and store water below the tree pit at low additional costs. The paved areas and walkways onsite could use porous concrete or asphalt.

Subsurface vaults/tanks, stone beds, stormwater chambers, and perforated pipes allow storm water to seep into the ground, where site conditions allow, and store water for gradual release during rain events freeing up capacity in the separate storm sewer system that serves the project site.

The stormwater BMPs proposed would help reduce the increase in untreated stormwater flows to Bergen Basin and Jamaica Bay. Therefore, with implemented BMPs, the proposed project would not result in potential significant adverse impacts to Jamaica Bay

from discharge of untreated stormwater.

Stormwater Pollution Prevention Plan (SWPPP)

Because the proposed project is greater than 1 acre, it would need to meet the standards of the NYSDEC State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-10-001I (General Permit). A description of the general requirements of a SWPPP is provided in Section S, Construction Impacts. A SWPPP must demonstrate that the post construction stormwater practices are designed to capture and treat the runoff from the 90 percent storm event, i.e., the water quality volume. These practices must be in conformance with the requirements of the New York State Stormwater Management Design Manual (NYSSMDM) which includes the implementation of green infrastructure practices. In addition to the design of the post construction stormwater management system, the SWPPP would include erosion and sediment control plans that outline the practices that would be implemented during construction.

13. Transportation

Traffic and Parking

The proposed action would result in the development of a 344-room hotel building with 96 accessory parking spaces (21 on-grade and 75 in the cellar level), along with two truck loading bays.

As indicated in Appendix BD, (Site Development Plan and Basement Parking Plan drawings), access to the primary parking area (the 75 spaces in the cellar) would be via a one-way inbound curb cut on North Conduit Avenue. The secondary parking area (the 21 spaces on grade) would be accessed via a pair of curb cuts on 142nd Street (inbound) and 135th Avenue (outbound). The truck bays and the drop off/pick up area would be accessed via curb cuts on 142nd Street.

Absent the proposed action, development of a 25,000 square foot medical office with 83 parking spaces is likely (Appendix NB).

To determine the proposed project's potential to adversely affect traffic, a screening analysis of the With Action scenario compared to the No Action scenario was conducted, using *CEQR Technical Manual* methodology to determine the net difference in trip generation characteristics.

To determine the trip generation characteristics of the proposed project, a survey was performed at the existing 366 room JFK Holiday Inn. This information is shown in Tables TR-1 and TR-2 in the Traffic and Air Quality Appendix (Appendix B) for the

weekday and Saturday periods, respectively. Because the proposed project is close in room count to the surveyed location, the projected trips would be similar, and no adjustment for size is needed. The survey counted autos, taxis, and shuttle bus trips. As indicated, a total of 54, 103, 134, and 99 vehicle trips are projected for the AM, midday, PM, and Saturday peak hours, respectively.

To determine the trip generation characteristics of the No Action scenario, the ITE trip rates were used for medical office. The ITE trip rates are appropriate here because the site is not conveniently located with respect to public transportation, and the vast majority of trips would be via automobile. This information is shown in Tables TR-3 and TR-4. As indicated, a total of 62, 101, 93, and 91 vehicle trips are projected for the AM, midday, PM, and Saturday peak hours, respectively.

The net difference in trips between the No Action scenario and the proposed project scenario is shown in Table TR-6. As indicated, a net total of -13, -8, 28, and -1 net additional vehicle trips would be induced by the proposed project, when compared to the development that would likely be build absent the proposed action. Because these numbers are below the CEQR screening threshold for traffic impacts, indicating that there is no potential for traffic impacts and no further analysis is warranted.

In order to estimate the parking needs for the proposed project, the peak parking accumulation at the surveyed location (64 parking spaces) was factored by the difference in room counts at the two facilities (344 rooms proposed vs. 366 rooms surveyed). This results in a projected peak demand for 60 parking spaces. The proposed project's 75 primary parking spaces in the cellar level would therefore meet the 60 space parking demand for the proposed 344 room hotel. The additional 25 spaces provided on grade would be available and in general would only be used to absorb any spikes in peak parking demand beyond typical operating conditions. It is noted that the amount of parking that is provided also meets the zoning requirements for hotel use in a C4-2 zone.

No significant adverse traffic or parking impacts would result from the proposed project and no further analysis is warranted.

Transit and Pedestrians

The project site is not located within walking distance to JFK airport, nor is it near any subway station stops. Furthermore, the project is served by a single NYC Transit bus line – the Q40 runs past both the project site and the adjacent Holiday Inn. Observations made during the traffic survey at the Holiday Inn did not indicate any trips to that hotel by bus. Given the very low transit share of trips made in the project area, the number of transit and walk-only associated with the project will be negligible. No significant adverse transit or pedestrian impacts would result from the proposed project and no further analysis is warranted.

14. Air Quality

Mobile Sources

As discussed above in the Traffic Section, the proposed action net vehicular trips would be well below the CEQR threshold of 100 vehicles during any peak hour for this area of the city and therefore is not expected to result in significant adverse air quality impacts related to mobile sources.

Parking Garage Sources

In order to determine whether the new parking garage would create air quality impacts, a parking garage analysis was performed, pursuant to the *CEQR Technical Manual*.

There would be two (2) vents for the parking garage. As shown in Appendix BD – Project Elevation, the proposed garage vent locations would be on the roof of the new hotel, approximately midway between the eastern and western edges of the building, or approximately 50 feet from the curb line on 142nd Street. The only nearby building of similar height would be the existing Holiday Inn hotel on the east side of 142nd Street. The proposed vent setbacks from 142nd Street (approximately 50 feet), and the width of 142nd Street (approximately 50 feet), mean that there is more than 100 feet of distance between the proposed vent locations, and the nearest edge of the Holiday Inn building (since the Holiday Inn building is also set back from 142nd Street).

The garage analysis presented in Table AQ-1 (Appendix B - Traffic and Air Quality) accounts for the two (2) separate vent locations. Other input parameters include the following:

The distance between the vent and the receptor is based on a receptor distance of 100 feet, which is a worst-case distance between the vent location and the Holiday Inn building.

The maximum 1-hour and average 8-hour inbound and outbound traffic volumes (77, 57 and 50, 48 respectively) were taken directly from Tables TR-1 and TR-5.

The parking garage area of 200,000 was calculated by the approximate length (200 feet) and width (100 feet) of the garage.

The mean travel distance of 225 feet was estimated as $\frac{3}{4}x$ (longer distance traveled to park + shorter distance traveled to park).

As indicated, the vent would contribute approximately 0.33 ppm of Carbon Monoxide (CO). Inclusive of background, the projected concentration of CO at a receptor 100 feet away would be 2.33 ppm, which is well below the threshold of 9.0 ppm. Therefore, there would not be any potential for air quality impacts associated with ventilating the garage.

Stationary Sources

A screening analysis was prepared to determine the potential for significant impacts with respect to the project heating and air conditioning (HVAC) systems on nearby buildings. The nearest buildings similar in height to the proposed project are the DoubleTree Hotel to the west, and the Holiday Inn Hotel to the east. The proposed project location relative to these two existing buildings is depicted in Exhibits 16 through 18.



Exhibit 16: Proposed Project and Buildings of Similar Height – Aerial View

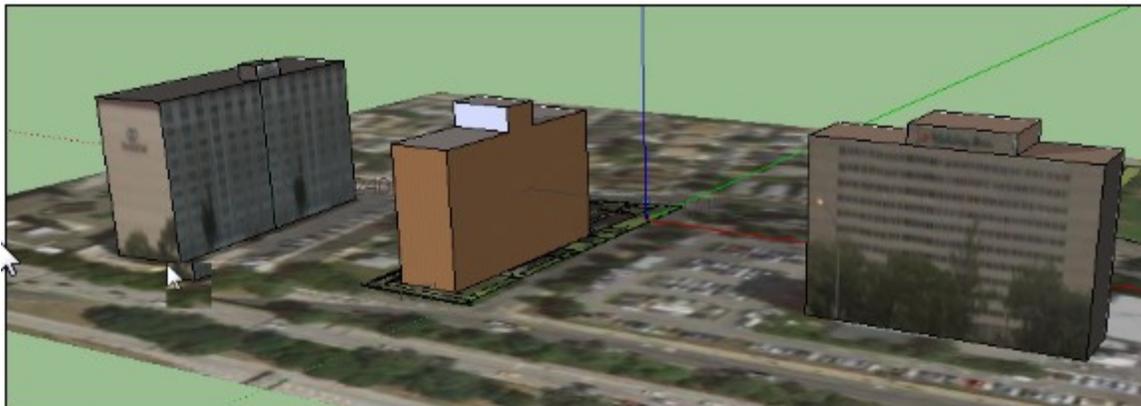


Exhibit 17: Proposed Project and Buildings of Similar Height – Perspective View

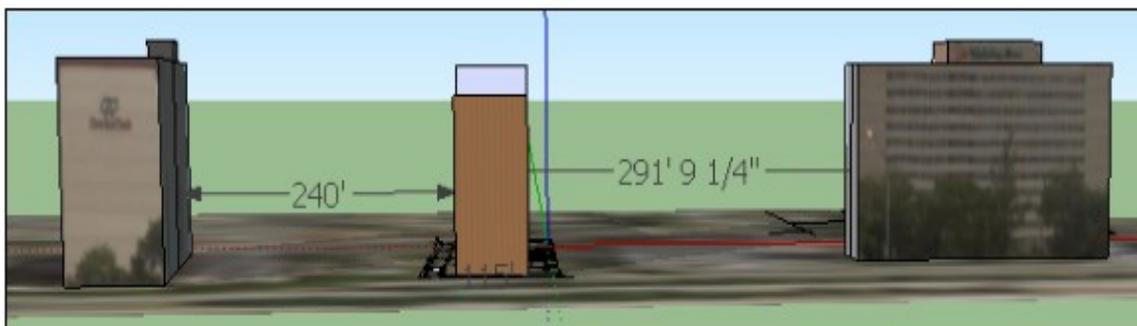


Exhibit 18: Distance Between Proposed Project and Buildings of Similar Height

The proposed project would contain 138,384 +/- square feet of floor area. The nearest building of similar height is approximately 240 feet away from the proposed project. The screening analysis, using Fuel Oil Number 4 (a conservative analysis with respect to Fuel Oil Number 2, and Natural gas) is shown in the following Screening Analysis Diagram in Exhibit 19, (Figure App-17-3, SO₂ Boiler Screen for Residential Development – Fuel Oil No. 4). In all likelihood, the proposed project would be heated using Natural Gas. As indicated in Exhibit 19 (Figure App 17-3 in the 2012 *CEQR Technical Manual*), as long as the project uses Fuel Oil Number 4, Fuel Oil Number 2, or Natural Gas, no significant air quality impacts from the proposed project's HVAC systems would result from the proposed project would result, and no further analysis is warranted.

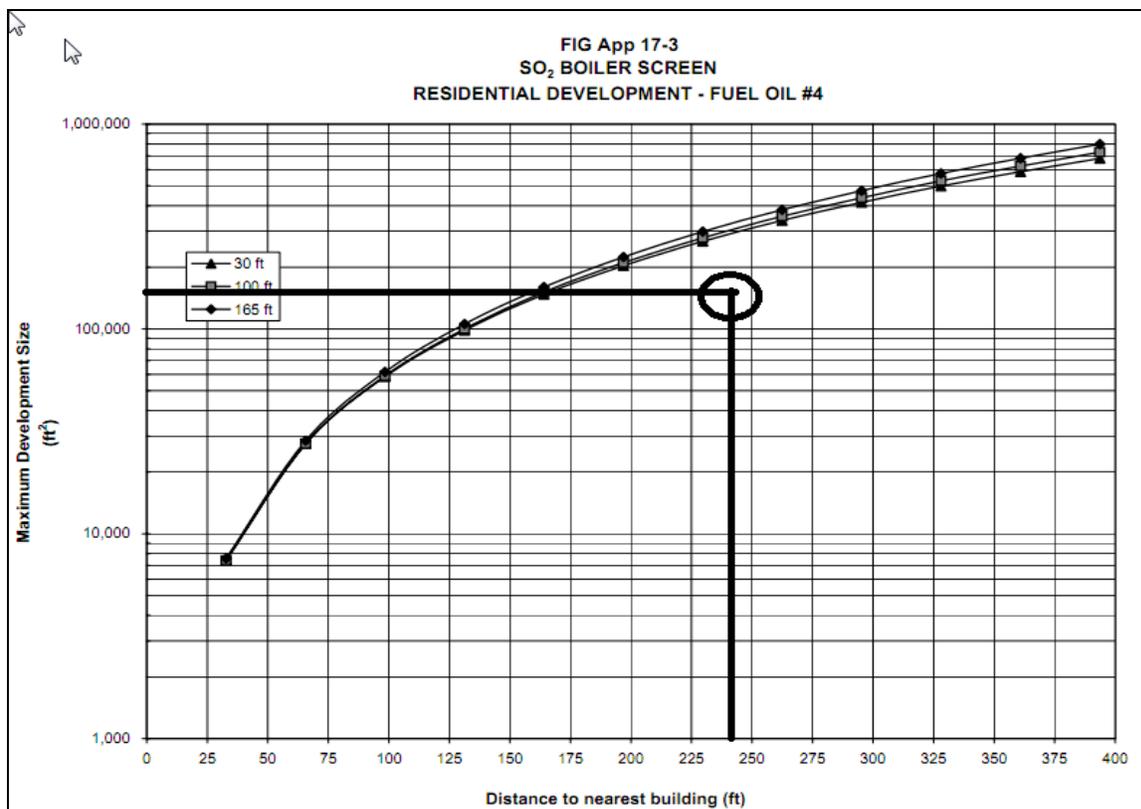


Exhibit 19: HVAC Screening Analysis

16. Noise

The proposed project is not expected to result in increased noise levels. Traffic volumes on the adjacent roadways would not double; therefore, no mobile-source noise impacts are anticipated. The proposed action would not result in the development of a significant noise generator.

Based on field observations, the predominant source of noise in the affected area is traffic along North Conduit Avenue and noise levels are typical of a suburban context. Occasional airplane noise was also observed (as noted below).

The noise measurement locations are displayed in Exhibit 20. Existing noise measurements were taken on Thursday March 11, 2010 between the hours of 8:00 to 10:00 AM, 12:00 to 2:00 PM, and 4:00 to 6:00 PM. The survey equipment used was a Larson-Davis Model 712 Type 2 Integrating Sound Level Meter. Calibration was performed using Larson-Davis Acoustic Calibrator CAL 150 using frequency 1000 Hz., prior to beginning of survey, and for confirmation, at the end of the survey period. Survey results were tallied in the field. A traffic count was performed on each of the streets adjacent to the survey locations concurrently with the noise measurements.

As shown in Exhibit 20, the measurements were taken at three separate locations. The locations were chosen to coincide with the proposed building’s nearest edge to North Conduit (the major source of noise – Location 1), and the property lines adjacent to 142nd Street (Location 2), and 135th Avenue (Location 3). Each of the measurements covered a 20-minute period. The results of these measurements are included in the tables below:



Exhibit 20: Noise Measurement Locations

	LOCATION 1	LOCATION 2	LOCATION 3
LEQ	71.1 dBA	68.2 dBA	71.3 dBA
Lmin	63.8 dBA	58.9 dBA	59.3 dBA
Lmax	83.9 dBA	82.8 dBA	85.2 dBA
L5	75.1 dBA	74.1 dBA	76.7 dBA
L10	73.7 dBA	71.7 dBA	74.2 dBA

L33	71.1 dBA	66.8 dBA	68.8 dBA
L50	69.7 dBA	65.3 dBA	66.7 dBA

Existing Noise Readings AM

	LOCATION 1	LOCATION 2	LOCATION 3
LEQ	71.3 dBA	67.8 dBA	72.5 dBA
Lmin	64.3 dBA	59.0 dBA	60.2 dBA
Lmax	80.2 dBA	84.2 dBA	82.6 dBA
L5	75.8 dBA	73.8 dBA	76.8 dBA
L10	73.9 dBA	72.5 dBA	75.6 dBA
L33	69.0 dBA	66.2 dBA	68.7 dBA
L50	66.3 dBA	65.1 dBA	66.4 dBA

Existing Noise Readings MD

	LOCATION 1	LOCATION 2	LOCATION 3
LEQ	72.4 dBA	70.1 dBA	65.1 dBA
Lmin	65.2 dBA	61.1 dBA	57.4 dBA
Lmax	81.2 dBA	86.1 dBA	78.4 dBA
L5	74.8 dBA	75.5 dBA	70.5 dBA
L10	73.5 dBA	71.7 dBA	67.9 dBA
L33	68.7 dBA	66.8 dBA	62.4 dBA
L50	67.0 dBA	66.0 dBA	60.8 dBA

Existing Noise Readings PM

The results of the noise survey indicate that while the proposed hotel would be in close proximity to Airport, it would be more affected by roadway traffic than by noise associated with the take-off and landing of airplanes. The project site is not located in a major JFK airport flight path, as only one or less airplane was observed over any 20-minute survey period. The highest observed aircraft noise was 68 dBA (instantaneous), and this occurred no more than once during each of the 20-minute survey periods. When averaged across the 20-minute survey period, this would correspond to considerably less than the 65 dBA Ldn value considered to be in the “marginally acceptable” range (Table 19-2 in the 2012 *CEQR Technical Manual*).

Existing Conditions

The three tables presented above indicate that the existing noise levels at the project site are generally representative of a typical busy suburban environment. The LEQ levels at Location 1, representing the proposed building’s nearest edge to North Conduit Avenue are approximately 72 dBA during all time periods. The corresponding L10 levels are approximately 74 dBA.

The AM, Midday, and PM traffic volumes along North Conduit during the 20-minute survey periods were 712, 425, and 596 vehicles - corresponding to between 2136, 1275 1788 vehicles per hour. The highest noise readings were generally during the AM peak period, when traffic was moving at approximately 45 MPH. During the PM peak, there was a traffic jam on North Conduit Avenue, and speeds, throughput traffic volumes, and overall noise levels, were generally lower.

The Location 1 noise contributions associated with the Belt Parkway traffic were observed to be lower than those associated with traffic on North Conduit Avenue. The highest observed instantaneous noise level associated with traffic along the Belt Parkway was between 70 and 72 dBA. These levels were observed rarely, as they were caused by truck traffic, which although occurs occasionally, is generally not permitted on the Belt Parkway.

As shown in the tables above, the sound levels at Locations 2 and 3 (along the 142nd and 143rd Street property lines, respectively), are generally similar to those at Location 1. Traffic volumes along these two roadway are low – varying between a low of 4 vehicles during the PM Peak on 142nd Street, and a high of 55 vehicles during the Midday peak on 135th Avenue. The noise levels at these locations are driven more by bus and truck noise.

The highest L10 levels at each of the locations recorded during the survey period have been summarized below:

	LOCATION 1	LOCATION 2	LOCATION 3
L10 (Highest)	73.9 dBA	72.5 dBA	75.6 dBA

Highest Existing L10 Noise Readings

Based on the information presented above, the highest L10 noise levels at each of the survey locations are in the 70dBA to 80 dBA range, corresponding to “marginally unacceptable” for the proposed hotel use (Table 19-2 of the 2012 *CEQR Technical Manual*).

Based on the information provided above, in order ensure an acceptable interior noise environment, the proposed hotel would provide a minimum of the following window/wall attenuation values:

It is important to note that although the south face of the new hotel would actually be in the 31 dBA attenuation range, Location 3 is adjacent adjacent to 135th Avenue, which is over 100 feet from the north face of the hotel. Therefore the noise level at the north face of the new hotel would be far lower than the measured values at 135th Avenue. The proposed attenuation levels are therefore as follows:

**Table 12
Noise Attenuation Requirements**

Building Face	Highest Measured Noise	Attenuation
South Face (North Conduit Avenue)	73 < L10 <= 76	31 dBA
142 nd Street, 135 th Avenue	70 < L10 <= 73	28 dBA

In order to ensure an acceptable interior noise environment, future residential/commercial uses must provide a closed window condition with a minimum of 28 dB(A) window/wall attenuation in the 142nd Street and the 135th Avenue façades in order to maintain an interior noise level of 45 dB(A). In order to maintain a closed window condition, an alternate means of ventilation that brings outside air into the building without degrading the acoustical performance of the building must also be provided. Alternate means of ventilation include, but are not limited to, central air conditioning. The specific attenuation requirements to be implemented for all facades are provided in Table 12 (CEQR No. 07DCP024Q), August 2013.

In order to ensure an acceptable interior noise environment, future residential/commercial uses must provide a closed window condition with a minimum of 31 dB(A) window/wall attenuation in the North Conduit façade in order to maintain an interior noise level of 45 dB(A). In order to maintain a closed window condition, an alternate means of ventilation that brings outside air into the building without degrading the acoustical performance of the building must also be provided. Alternate means of ventilation include, but are not limited to, central air conditioning. The specific attenuation requirements to be implemented for all facades are provided in Table 12 (CEQR No. 07DCP024Q), August 2013.

Based on the information provided above, no significant adverse noise impacts would result from the proposed project and no further analysis is warranted.

18. Neighborhood Character

The *CEQR Technical Manual* defines neighborhood character as an amalgam of the various elements that give neighborhoods their distinct personality. These elements can include land use, urban design, visual resources, historic resources, socioeconomics, traffic, and noise. For neighborhood character, CEQR considers how these elements combine to create the context and feeling of a neighborhood, and how an action would

affect that context. CEQR generally requires an assessment of neighborhood character when one of these categories is significantly impacted by a proposed action, or when a combination of these categories are moderately affected by a proposed action.

The analyses presented in other portions of this document conclude that the proposed project would have no significant effect on land use, urban design, visual resources, historic resources, socioeconomics, traffic, or noise. Therefore, based on the guidelines presented in the 2012 *CEQR Technical Manual*, the project meets the screening thresholds for neighborhood character, and would not result in a significant neighborhood character impact.

Land Use

The proposed project, a 344 room hotel with accessory parking, would be compatible with the uses found along North Conduit Avenue in the vicinity of JFK Airport. There are four chain hotels within the 400 foot radius of the rezoning area. The construction of the proposed hotel would be consistent with the existing development found in the area. Therefore, as presented in earlier in the analysis, there would be no significant adverse impacts related to land use.

Urban Design

The area's urban design features are limited to the existing hotels and single family homes found in the study area. The area south of the rezoning area is predominantly made up of the airport and warehouse uses. The proposed project would not change the rezoning area's block form. Curb cuts would be provided on North Conduit Avenue as is typical with hotels developments along this road. The proposed building would be 13 stories in height with cellar; the average height for the area. No significant adverse impacts are expected to occur from the proposed action.

Visual Resources

There are no visual resources within the 400 foot radius of the rezoning area. Visual access to the airport is limited by the Belt Parkway. Therefore, the proposed action would not have an adverse impact on visual resources.

Historic Resources

As described earlier, there are no historic resources in or adjacent to the rezoning area or in the study area. The only architectural resource is the TWA hanger which is located in the airport. The proposed rezoning would not have any impact of effect the TWA hanger.

Socioeconomic Conditions

The proposed action would result in temporary employment during the construction phase of the proposed development and would provide permanent employment when the proposed action is in operation. These employment opportunities would not be limited to the physical hotel but would also enhance the livery and service related industries surrounding the JFK Airport. The proposed action would not result in significant adverse impacts related to the area's socioeconomic conditions.

Traffic, Air Quality and Noise

As demonstrated in the traffic, air quality, and noise sections, the project meets the screening criteria that indicate that there would be no significant environmental impact relating to increased vehicle trips and vehicular exhaust fumes from trips associated with the project.

The project site is located along a section of North Conduit Avenue developed with airport-related commercial uses including high-rise hotels similar in size and layout to the projected development. The proposed project would be consistent with this neighborhood character and no significant adverse Neighborhood Character impacts would result from the proposed project and no further analysis is warranted.

Appendix NB:

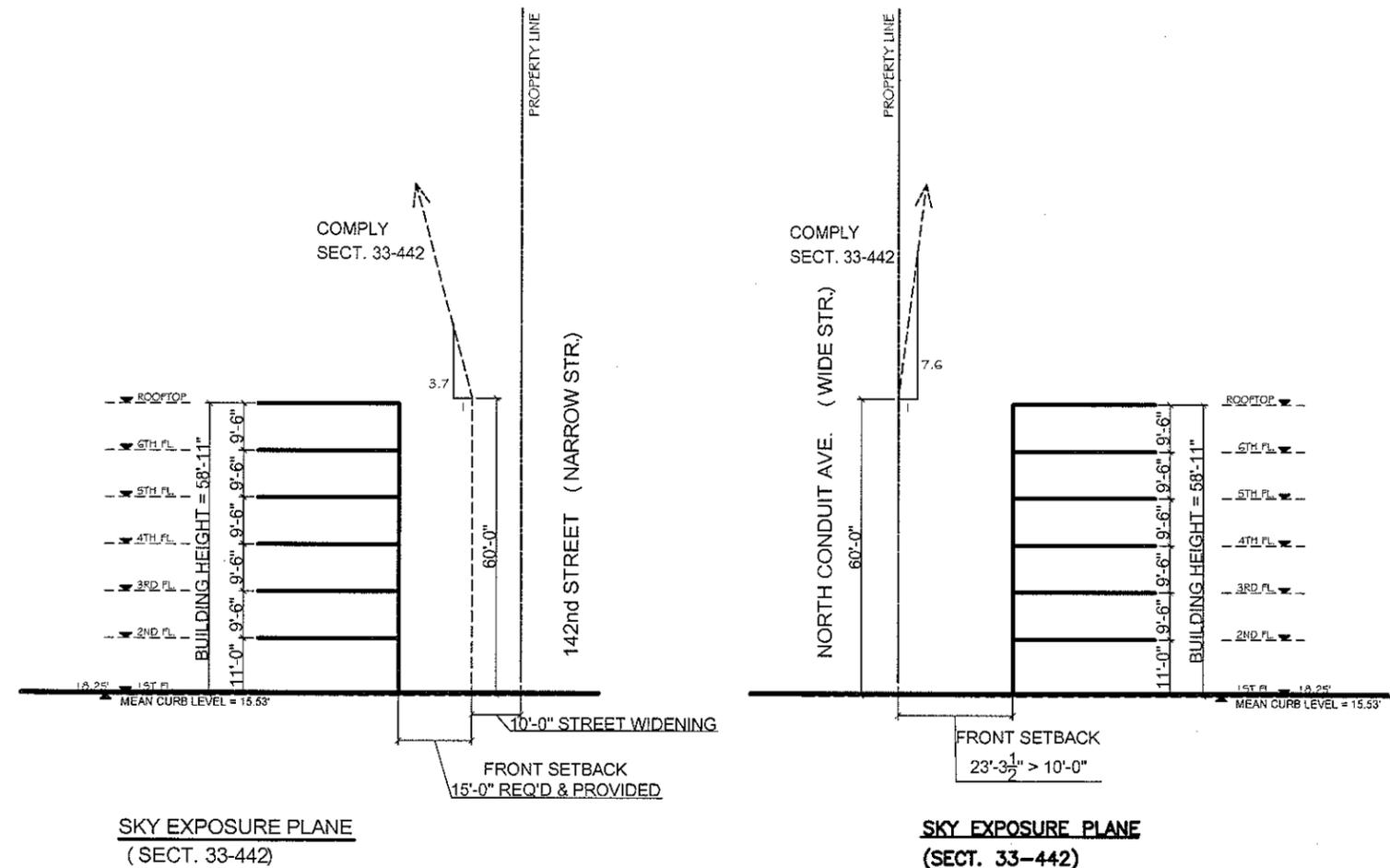
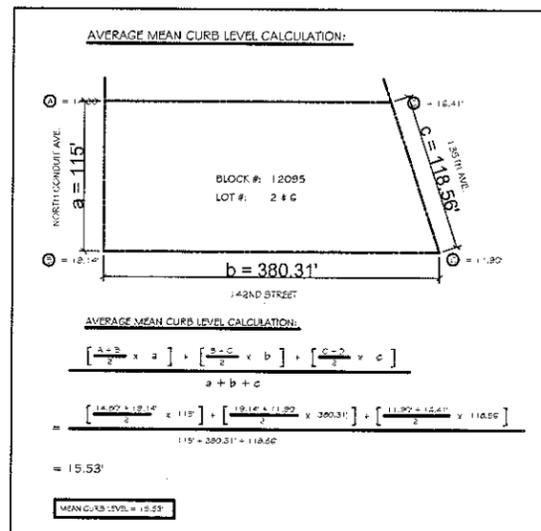
No-Action Scenario Plans and Zoning
Calculations

ZONING ANALYSIS :

PREMISES: 135-08, 142 STREET, QUEENS, NEW YORK
 BLOCK: 12095
 LOT: 2 & 6
 ZONE: C4-2
 MAP: 18d
 LOT SIZE: 38,273 SF (AFTER NYCDOT TAKING)
 SECT. 33-123 MAX. FAR FOR C4-2 COMMUNITY FACILITY = 4.80
 MAX. PERMITTED FLOOR AREA = 38,273 X 4.80 = 183,710 SF
 PROPOSED NET FLOOR AREA = 25,000 SF < 183,710 SF O.K.

(HEIGHT & SETBACK)

- SECT. 33-442 DEPTH OF OPTIONAL FRONT OPEN AREA IN WIDE STREET = 10'-0"
 NARROW STREET = 15'-0" (FROM STREET WIDENING LINE)
 HEIGHT ABOVE THE STREET LINE = 80', SLOPE OVER ZONING LOT (NARROW STR) VERTICAL = 3.7 HORIZONTAL = 1
 (HT & SETBACK SEE SKY EXPOSURE PLANE)
 BUILDING HEIGHT = 58'-11"
- SECT. 33-292 30'-0" OF REAR YARD IS REQ'D.
 PROPOSED 30'-0" REAR YARD IS PROVIDED.
- SECT. 36-21 HEALTH CARE FACILITIES = 300 SF PER PARKING SPACES REQ'D.
 PROPOSED FLOOR AREA = 25,000 SF / 300 SF = 83 PARKING SPACES IS REQ'D.
 PROPOSED 83 VOLUNTARY PARKING SPACES IS PROVIDED.
- SECT. 36-62 MIN. REQUIRED LOADING BERTH IS FIRST 25,000 SF OF FLOOR AREA . NOT REQUIRED LOADING BERTH NEXT 75,000 SF. 1 LOADING BERTH REQ'D NEXT 200,000 SF. ADDITIONAL 1 LOADING BERTH REQ'D
 MIN. DIMENSION REQUIRED = 12' (WIDTH) X 33' (LENGTH) X 12' (HEIGHT)
 PROPOSED BUILDING TOTAL FLOOR AREA = 25,000 SF
 NO LOADING BERTH IS REQ'D.



FOR ILLUSTRATION PURPOSE ONLY

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Tserpes Holdings LLC.
 140-16 135th Avenue
 South Ozone Park, NY 11436
 Tel: 516-527-1999

MICHAEL KANG ARCHITECT, PLLC.
 300 Northern Boulevard
 Suite 200
 Great Neck, NY 11021
 Tel: (718) 461-2020
 Fax: (718) 461-1029

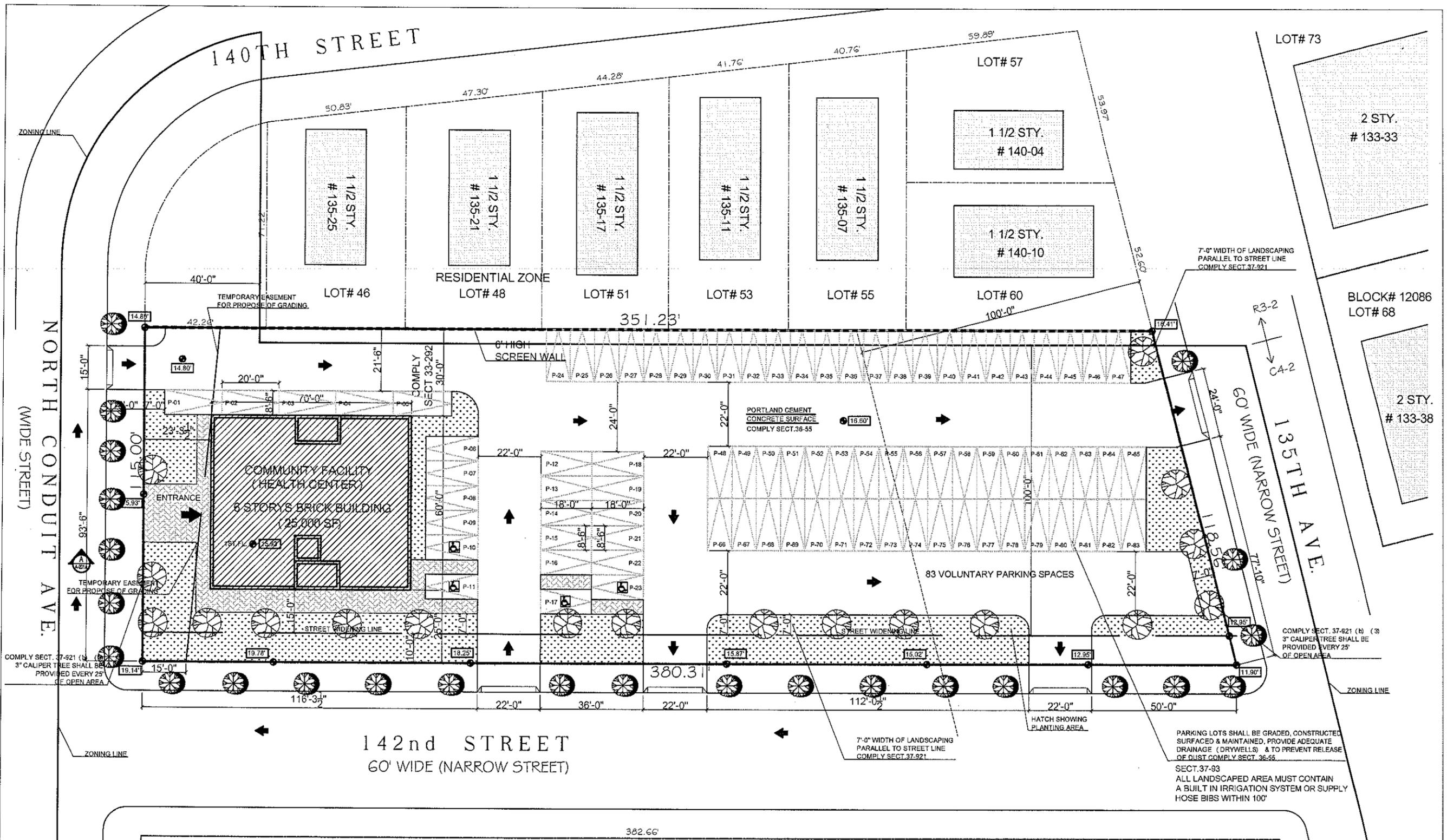
NORTH CONDUIT - COMMUNITY FACILITY

135-08, 142 Street
 QUEENS, NY.

No.	Date	Revision
1	06-27-05	ZONING REV.
2	08-01-05	ZONING REV.
3	08-18-05	PLOT PLAN REV.
4	09-22-05	PLOT PLAN REV.
5	11-11-05	PLOT PLAN REV.
6	04-29-06	ZONING REV.

Drawn by Catherine Kuo	Scale AS NOTED
Date 01-24-05	Project No. 20528
File	

Drawing No.
A-100A
 of 54



12 STORY MASONRY
HOLIDAY INN

SITE DEVELOPMENT PLAN
SCALE: 1/16" = 1'-0"

BLOCK# 12099
LOT# 1

PREMISES: 135-08, 142 STREET, QUEENS, NEW YORK
BLOCK: 12095
LOT: 2-6
ZONE: C4-2
MAP: 18d

LEGEND:

- GRASS AREA
- PAVER AREA
- TREE

FOR ILLUSTRATION PURPOSE ONLY

APPLICANT:
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37-41 34th Ave
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Flushing, NY 11355
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NORTH CONDUIT - COMMUNITY FACILITY

135-08, 142 Street
QUEENS, NY.

No.	Date	Revision
3	09-27-07	ZONING REV.
4	09-03-07	PLOT PLAN REV.
5	09-19-07	PLOT PLAN REV.
6	09-29-07	PLOT PLAN REV.
7	11-14-07	PLOT PLAN REV.
8	04-29-08	PLOT PLAN REV.

Drawn By Catherine Kuo	Drawing No. A-100C
Scale AS NOTED	
Date 01-24-08	
Project No. 20528	
File	

Appendix BD:

With-Action Scenario Plans and Zoning
Calculations

ZONING ANALYSIS :

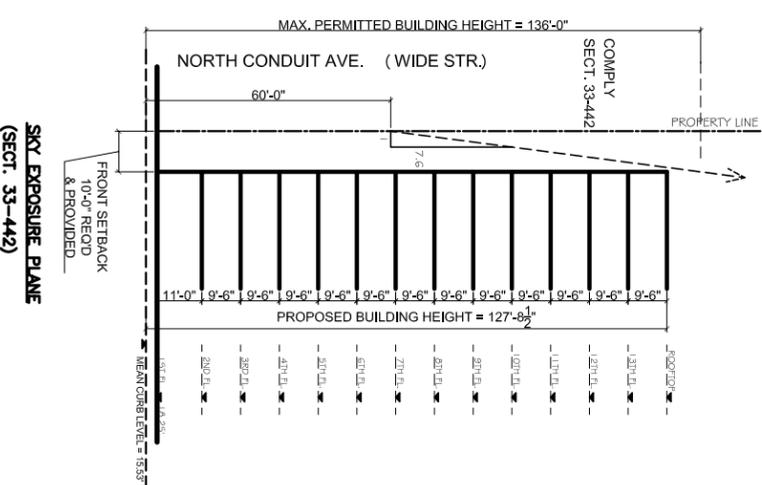
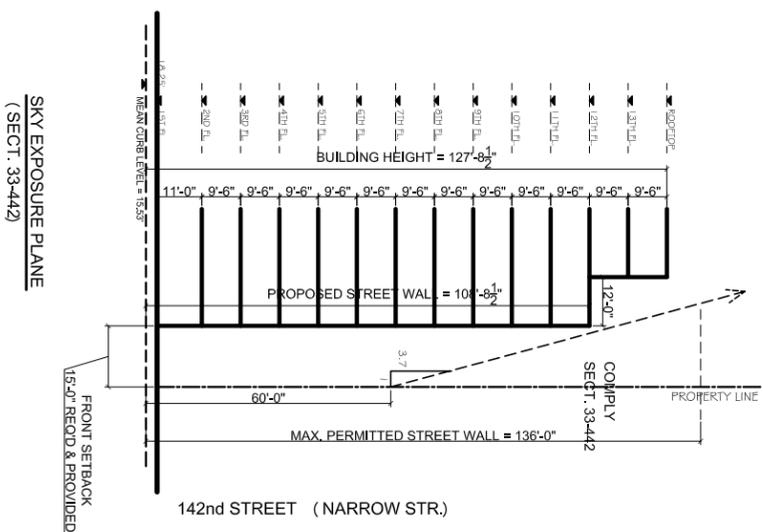
PREMISES: 135-08, 142 STREET, QUEENS, NEW YORK
 BLOCK: 12095
 LOT: 2 & 6 + ADDITIONAL LOT (A PORTION OF NORTH CONDUIT AVE.)
 ZONE: C4-2
 MAP: 18d
 STREET-ACQUISITION
 LOT SIZE: 38,273.09 SF + 2429.13 SF (ADDITIONAL LOT AREA) = 40,702.22 SF
 SECT. 33-122 MAX. FAR FOR C4-2 COMMERCIAL BUILDING = 3,40
 MAX. PERMITTED FLOOR AREA = 130,128.51 SF + 8,259.04 SF = 138,387.55 SF
 PROPOSED NET FLOOR AREA = 138,383.84 SF < 138,387.55 SF O.K.

SECT. 33-442 (HEIGHT & SETBACK)
 DEPTH OF OPTIONAL FRONT OPEN AREA IN WIDE STREET = 10'-0"
 NARROW STREET = 15'-0" (FROM STREET WIDENING LINE)
 HEIGHT ABOVE THE STREET LINE = 60', SLOPE OVER ZONING LOT (NARROW STR) VERTICAL = 3.7 HORIZONTAL = 1
 (HT & SETBACK SEE SKY EXPOSURE PLANE)
 BUILDING HEIGHT = 127'-8.5"

SECT. 33-292 30'-0" OF REAR YARD IS REQ'D.
 PROPOSED 30'-0" REAR YARD IS PROVIDED.

SECT. 36-21 ONE PARKING SPACES PER 8 HOTEL ROOMS.
 TOTAL HOTEL ROOMS = 344 ROOMS/8 = 43 PARKING SPACES REQUIRED.
 PROPOSED OPEN PARKING SPACES = 21 SPACES
 & 75 PARKING SPACES @ CELLAR FLOOR. TOTAL PARKING SPACES = 96 > 43 O.K.

SECT. 36-62 MIN. REQUIRED LOADING BERTH IS FIRST 25000 SF OF FLOOR AREA . NOT REQUIRED LOADING BERTH NEXT 75,000 SF. 1 LOADING BERTH REQ'D NEXT 200,000 SF. ADDITIONAL 1 LOADING BERTH REQ'D
 MIN. DIMENSION REQUIRED = 12' (WIDTH) X 33' (LENGTH) X 12' (HEIGHT)
 PROPOSED BUILDING TOTAL FLOOR AREA = 138,383.84 SF
 PROPOSED 2 LOADING BERTH PART INSIDE BUILDING @ 1ST FL. IS PROVIDED.
 [12' (WIDTH) X 33' (LENGTH) X 12'-0.5" (HEIGHT)]



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 MICHAEL KANG, R.A.

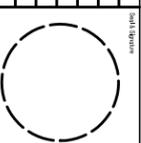


HYATT PLACE - NORTH CONDUIT AVE. HOTEL - 13 STORYS

Address

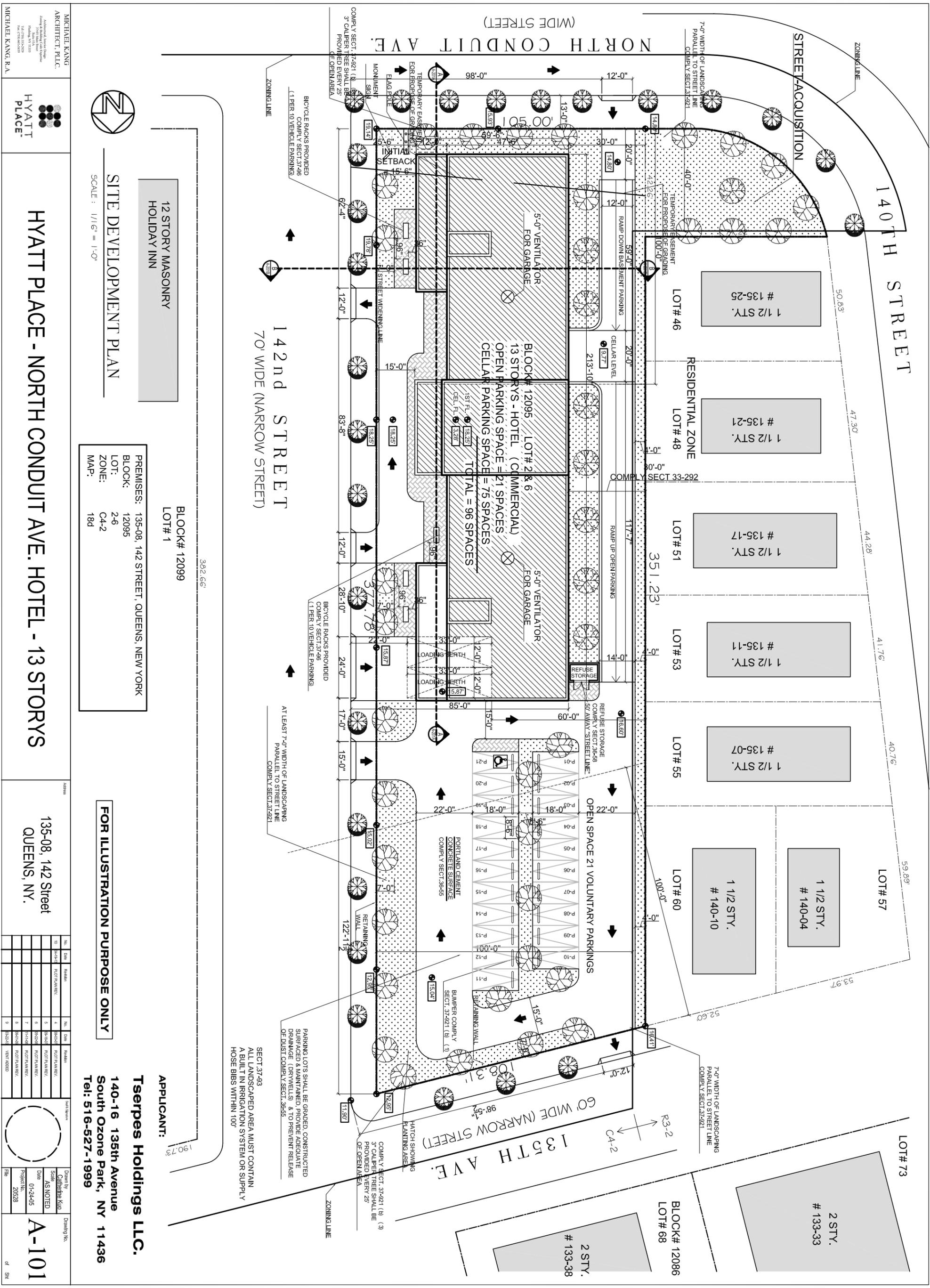
135-08, 142 Street
 QUEENS, NY.

No.	Date	Revised	No.	Date	Revised
9	12-13-14	FINAL PLAN REV.	3	09-02-14	ZONING REV.
			4	09-02-14	ZONING REV.
			5	09-02-14	TITLE PLAN REV.
			6	09-02-14	TITLE PLAN REV.
			7	10-01-14	TITLE PLAN REV.
			8	09-02-14	TITLE PLAN REV.



Drawn by
 Scale AS NOTED
 Date 01-24-05
 Project No. 20528

Drawing No. **A-100B**
 of SH



SITE DEVELOPMENT PLAN

SCALE: 1/16" = 1'-0"

12 STORY MASONRY
HOLIDAY INN

PREMISES: 135-08, 142 STREET, QUEENS, NEW YORK
 BLOCK: 12095
 LOT: 2-6
 ZONE: C4-2
 MAP: 18d

FOR ILLUSTRATION PURPOSE ONLY

APPLICANT:
Tserpes Holdings LLC.
 140-16 135th Avenue
 South Ozone Park, NY 11436
 Tel: 516-527-1999

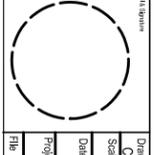
MICHAEL KANG
 ARCHITECT, PLLC.
 140-16 135th Avenue
 South Ozone Park, NY 11436
 Tel: 516-527-1999
 MICHAEL KANG, R.A.



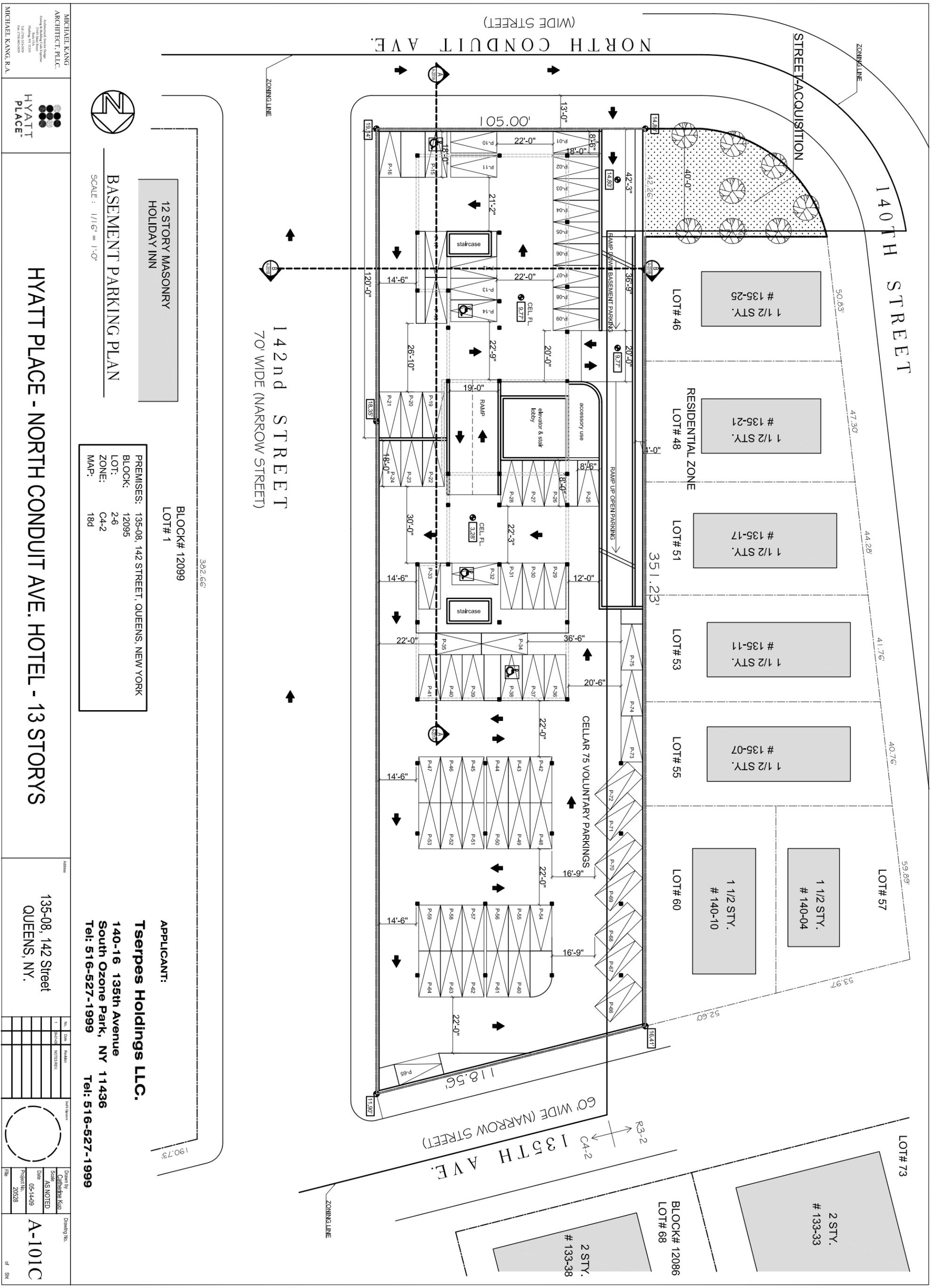
HYATT PLACE - NORTH CONDUIT AVE. HOTEL - 13 STORYS

Address
 135-08, 142 Street
 QUEENS, NY.

No.	Date	Revised	No.	Date	Revised
10	10-13-17	FOR PLAN REV.	4	3-16-18	FOR PLAN REV.
9	10-13-17	FOR PLAN REV.	5	3-16-18	FOR PLAN REV.
8	10-13-17	FOR PLAN REV.	6	3-16-18	FOR PLAN REV.
7	10-13-17	FOR PLAN REV.	7	10-13-17	FOR PLAN REV.
6	10-13-17	FOR PLAN REV.	8	3-16-18	FOR PLAN REV.
5	10-13-17	FOR PLAN REV.	9	3-16-18	FOR PLAN REV.
4	10-13-17	FOR PLAN REV.	8	3-16-18	FOR PLAN REV.
3	10-13-17	FOR PLAN REV.	9	3-16-18	FOR PLAN REV.



Project No.: 20528
 Drawing No.: A-101
 of SH



BASEMENT PARKING PLAN

SCALE : 1/16" = 1'-0"

PREMISES: 135-08, 142 STREET, QUEENS, NEW YORK
 BLOCK: 12095
 LOT: 2-6
 ZONE: C4-2
 MAP: 18d

APPLICANT:
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 140-16 135th Avenue
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Drawn by: **Capitline Kuo**
 Scale: **AS NOTED**
 Date: **05-14-09**
 Project No.: **20528**
 Drawing No.: **A-101C**
 of **SM**

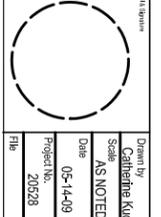
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HYATT PLACE - NORTH CONDUIT AVE. HOTEL - 13 STORYS

135-08, 142 Street
 QUEENS, NY.

No.	Date	Revised
1	05-14-09	NOTES REV.



Project No.: **20528**
 Drawing No.: **A-101C**
 of **SM**

Appendix A: Site Photographs



Exhibit A-1: Project Site from North Conduit (also showing Existing homes on western portion of block)

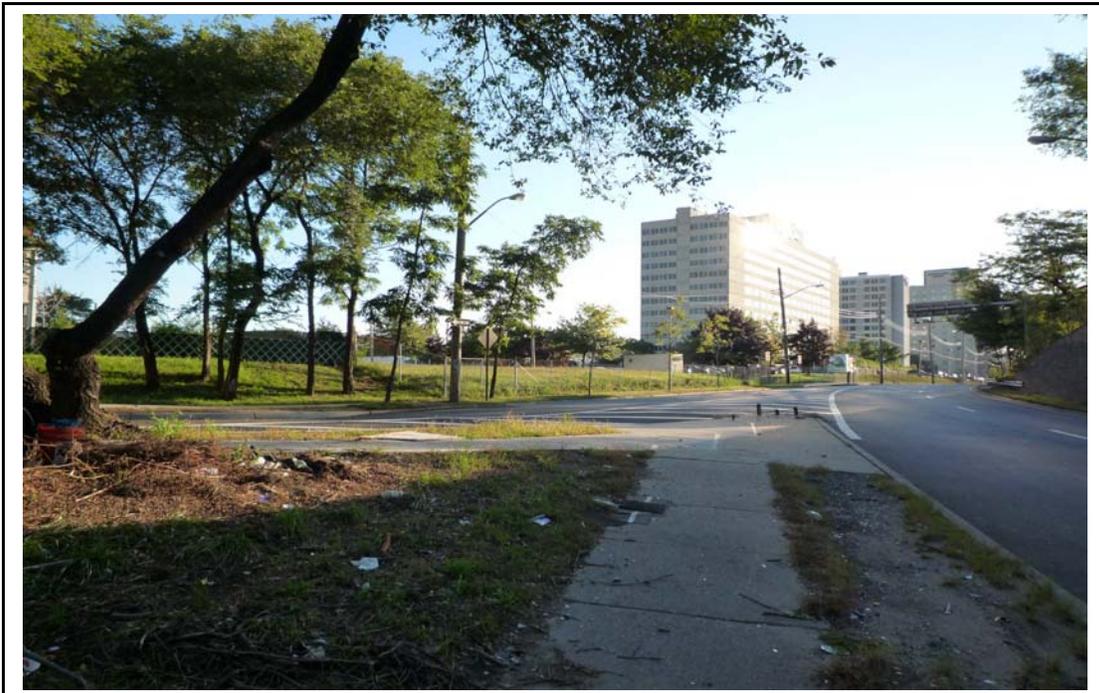


Exhibit A-2: Project Site from North Conduit at 140th Street (also showing Holiday Inn just east of the site)



**Exhibit A-3: Project Site from North Conduit at 142nd Street
(also showing Double Tree Hotel to the west)**

Table TR-2														
Holiday Inn Trips - Saturday														
	CARS			SHUTTLES		TAXIS		OTHER		TOTAL		HOURLY TOTAL		
	In	Out	Parked	In	Out	In	Out	In	Out	In	Out	In	Out	Total
08:15	5	6	54	0	1	0	0	0	0	5	7			
08:30	6	8	52	2	1	1	1	1	1	10	11			
08:45	4	3	53	1	1	1	1	0	0	6	5			
09:00	5	3	55	1	1	2	2	2	2	10	8	31	31	62
09:15	7	6	56	1	1	1	1	1	0	10	8			
09:30	6	7	55	2	0	1	1	0	1	9	9			
09:45	7	7	55	2	1	1	1	1	0	11	9			
10:00	8	9	54	1	1	1	1	0	1	10	12	40	38	78
10:15	8	6	56	1	1	1	1	0	0	10	8			
10:30	7	6	57	1	2	0	0	1	1	9	9			
10:45	7	6	59	2	2	0	1	1	1	9	8			
11:00	7	6	60	2	2	0	1	1	1	9	8	37	33	70
11:15	7	5	62	2	1	0	1	0	0	9	7			
11:30	6	6	62	2	2	2	2	0	0	10	10			
11:45	7	9	60	2	1	1	1	1	1	11	12			
12:00	6	8	58	3	3	2	2	1	1	12	14	42	43	85
12:15	8	7	59	1	0	1	1	0	1	10	9			
12:30	7	7	59	1	2	0	0	0	0	8	9			
12:45	7	9	57	1	2	1	1	1	0	10	12			
01:00	4	7	54	2	4	1	1	0	1	7	13	35	43	78
01:15	5	5	54	1	1	2	2	1	0	9	8			
01:30	5	7	52	1	2	2	2	1	1	9	12			
01:45	13	10	55	1	2	3	1	0	0	17	13			
02:00	7	8	54	0	1	1	2	0	1	8	12	43	45	88
02:15	11	8	57	2	0	2	1	2	1	17	10			
02:30	6	6	57	2	3	3	4	0	2	11	15			
02:45	9	7	59	0	1	1	2	0	0	10	10			
03:00	10	5	64	1	1	1	2	0	0	12	8	50	43	93
03:15	4	7	61	2	1	1	1	1	0	8	9			
03:30	5	9	57	1	2	2	2	0	0	8	13			
03:45	4	14	47	2	3	2	2	0	0	8	18			
04:00	4	14	37	2	3	2	2	0	0	8	18	31	58	89
04:15	3	19	21	2	3	2	1	0	0	7	23			
04:30	6	13	14	2	2	1	1	1	0	10	16			
04:45	7	10	11	1	1	0	1	1	0	9	12			
05:00	5	6	10	3	2	2	2	0	2	10	12	36	63	99
05:15	7	6	11	1	1	1	1	0	0	9	8			
05:30	6	5	12	1	1	0	0	1	1	8	7			
05:45	8	7	13	0	1	2	1	0	0	10	9			
06:00	5	6	12	1	1	1	1	1	0	8	8	35	32	67
06:15	4	3	13	1	1	1	0	0	1	6	5			
06:30	8	9	12	1	0	0	2	1	0	10	11			
06:45	8	7	13	1	1	2	2	0	1	11	11			
07:00	7	3	17	0	1	1	1	0	0	8	5	35	32	67
	286	324		57	62	52	54	20	21	415	461	434	477	911

Source: LHA Field Survey - Friday September 9, 2006., 2006.

Table TR-3 ITE Trip Generation Rates - Medical Office			
	Trip Rate (/1000 SF)	In	Out
Weekday	36.13	0.50	0.50
Saturday	8.96	0.50	0.50
AM Peak Hour	2.48	0.79	0.21
MD Peak Hour *	4.04	0.53	0.47
PM Peak Hour	3.72	0.27	0.73
SAT Peak GEN	3.63	0.57	0.43
Note *: Taken as AVG(AM PEAK GEN,PM PEAK GEN)			
Source: ITE Trip Generation, 7th Edition LU Code 720.			

Table TR-4 ITE Auto Trip - Medical Office			
	Two-Way	In	Out
Weekday	903	452	452
Saturday	224	112	112
AM Peak Hour	62	49	13
MD Peak Hour *	101	53	47
PM Peak Hour	93	25	68
SAT Peak GEN	91	52	39
Note *: Taken as AVG(AM PEAK GEN,PM PEAK GEN) 25000 Square Feet			
Source: LHA - October 29, 2006.			

Table TR-5 Hotel Trips			
	Two-Way	In	Out
Weekday	964	491	473
Saturday	911	434	477
AM Peak Hour	54	26	28
MD Peak Hour *	103	53	50
PM Peak Hour	134	77	57
SAT Peak GEN	93	50	43
Note *: Taken as AVG(AM PEAK GEN,PM PEAK GEN)			
Source: LHA - Tables TR-1 and TRT-2			

Table TR-6 Net New Trips			
	Two-Way	In	Out
Weekday	61	39	21
Saturday	687	322	365
AM Peak Hour	-8	-23	15
MD Peak Hour *	2	-0	3
PM Peak Hour	41	52	-11
SAT Peak GEN	2	-2	4
Note *: Taken as AVG(AM PEAK GEN,PM PEAK GEN)			
Source: LHA - Tables TR-1 and TRT-2			

Appendix C:
Phase I Environmental Site Assessment

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT



NORTH CONDUIT HOTEL JFK AIRPORT, NEW YORK

Prepared by:

**Evan Lemonides Associates
139 Fulton Street, Suite 207
New York, NY 10038
(212) 334-1962**

**May 17, 2009
(revised September 29, 2009)**

I. EXECUTIVE SUMMARY

Report Findings

Property Name: 135-08 142nd Street
Property Address: 135-08 142nd Street
City/County/State/Zip Code: South Ozone Park (Queens), New York 11436
Property Usage: Vacant Land

Section	Acceptable	O & M Program	Routine Solution	Additional Study	Estimated Cost
III. Property Description/ History	X				
IV. Regulatory Review	X				
V. Reconnaissance	X				

This report documents the findings of a Phase I Environmental Site Assessment at 135-08 142nd Street (the “Subject”), located at 135-08 142nd Street (Block (Block 12095, Lots 2 and 6) Queens County, New York. The property, which is situated in an area characterized by residential and commercial development along 135-08 142nd Street consists of a 1+ acre parcel that is presently a vacant site.

The Subject is not currently, nor was it historically, involved in the generation, treatment, storage, or disposal of hazardous waste;

The following were not identified:

- Underground storage tanks
- A radon hazard condition;
- Noxious odors;
- PCB-containing transformers or other equipment;
- Evidence of asbestos or asbestos-covered piping,
- Areas of stained flooring, concrete, soil or stressed vegetation; or
- Adjoining properties with Recognized Environmental Conditions.

Based on these findings, it is our opinion that the potential for on-site contamination is low, and a Phase II Investigation is not recommended at this time.

II. INTRODUCTION

A. General

Lemonides Associates ("LA") was retained by Tserpes Holding LLC to prepare a Phase I Environmental Site Assessment (ESA). This assessment was prepared on behalf of and for the exclusive use of Tserpes Holding LLC. This Phase I ESA will be used as a resource document for the preparation of an Environmental Assessment Statement (EAS) in support of the proposed project.

B. Purpose and Scope

1. Purpose

The purpose of this assessment was to identify areas of potential on-site environmental contamination that could adversely affect the property's use and value, or give rise to potential liability to a government agency or private party.

2. Scope

The approach and scope of this assessment consisted of reviewing readily available information and environmental data relating to the property, including historical maps and aerial photographs; records maintained by federal, state, and local regulatory agencies; and conducting a site visit including visual inspection and interviews with persons allegedly knowledgeable about the site.

The specific scope of this assignment included the following:

a. Review of readily available information regarding:

- Previous site uses;
- Current site uses;
- Topography;
- Geology; and
- Hydrology.

β. A site reconnaissance to characterize on-site conditions and assess the site's location with respect to surrounding property uses and natural surface features.

- χ.** Interviews with persons familiar with the property to obtain information on present and previous on-site activities potentially resulting in the environmental degradation of the site or adjoining properties.
- d.** A review and interpretation of readily available historical documents, historical and topographic maps, and New York City Building Department records to identify previous activities on or near the Subject.
- e.** A review of readily available environmental databases maintained by the USEPA, state, and local agencies within the approximate minimum search distance described within the Regulatory Review Section of this report provided by *Toxics Targeting, Inc. ("TTI")*. A copy of the Computerized Environmental Report (CER), prepared by TTI, has been provided in Appendix B.
- f.** A visual reconnaissance of the surrounding properties to identify obvious potential environmental conditions on neighboring properties.

III. PROJECT DESCRIPTION/HISTORY

A. Overview

The Subject is a +/-1.0-acre parcel located in Queens County that is presently a vacant, vegetated lot. Surrounding properties are a mix of residential and commercial uses. Residential buildings are present to the north of the Subject and commercial uses (hotels) are present to the west and east. North Conduit Avenue is located along the southern border of the Subject. The lot is presently fenced in and there is a gate on the northern boundary. Single family residential dwellings are located along the western boundary of the Subject. The parking lot of the Holiday Inn Hotel is present across 142nd Street to the east of the Subject. The immediate surrounding properties contain no industrial uses.

B. Property Location

The Subject is located at 135-08 142nd Street, South Ozone Park, New York and is identified on location maps as Block 12095, Lots 2 and 6. The approximate geographic coordinates of the Subject are N 40 47' 45" latitude and W 73 58' 26" longitude.

C. Size and Shape of Parcel

The property is rectangular-shaped and approximately 1.0 acres (44,493 square feet) in size.

D. Topography

The topography of the area surrounding the Subject can be characterized as relatively flat with no visible sloping. According to the United States Geological Survey (USGS) *Queens, New York 7.5-Minute Series* topographic map, the Subject's elevation is approximately 15' above sea level (asl).

E. Surface Waters

There are no surface waters in the vicinity of the site.

F. Soils

The general soils of the area are referred to as urban land complex because the soil's original structure and content have been altered by human activities including filling, grading, construction, and utility line installation and are thus unidentifiable.

G. Geology

There are no predominant geological surface features such as rock outcroppings on the Subject. The basement rocks of Queens County are pre-Cambrian metamorphic rocks. However, they are flanked on the northwest by consolidated sedimentary and igneous rocks of Triassic age which dip northwest, and on the southeast and south by unconsolidated Coastal Plain sediments of Cretaceous age which dip toward the southeast and in part are water bearing. The Subject is located within the Cretaceous deposits, which consist of layers of silt, clay, sandy clay, sand, and gravel.

H. Groundwater

Under natural, undisturbed conditions, shallow groundwater flow generally follows the topography of the land surface and on this basis; the topography suggests that groundwater flow across the site is in a northwesterly direction to the East River. However, localized conditions can alter flow directions and thus the expected flow may not coincide with actual groundwater flow in the subject area. Based on our review of *USGS Groundwater in Queens County (1953)* shallow groundwater in the vicinity of the Subject is located at a depth of about 50' below ground surface (bgs).

Subsurface water at the Subject Site is not used as a potable source. It is known that the groundwater throughout New York City has been degraded below potable water standards by several centuries of progressive contamination. The water table is largely contained within the Wisconsin glacial drift and would presumably follow the local topography.

The potable water supply is provided to the Subject by the City of New York, which derives it from surface impoundments in the Croton, Catskill, and Delaware watersheds. Subsurface tunnels pipe the water to New York City. Thus the Subject Site and surrounding uses are well insulated from effects of the degraded groundwater in its vicinity.

I. Surrounding Land Use

Surrounding properties are a mix of residential and commercial uses with residential buildings adjacent to the Subject to the north and south and east. There is a construction storage yard immediately adjacent to the property to the northeast. This property abuts the eastern boundary of the residential building that is immediately north of the Subject. Uses to the west of the Subject consist of a

park/playground as well as multi-family residences presently under construction are adjacent to this park/playground on its western boundary. The property has no visible sloping. The immediate surrounding properties contain no industrial uses. Table 1 contains a tabulation of surrounding property usage.

Table 1
Surrounding Property Usage

Direction	Adjacent Property	Surrounding Properties
North	Roadway 135 th Street	Residential
South	N. Conduit Avenue	N. Conduit Ave./Belt Parkway
East	142 nd Street	Commercial (Hotels)
West	Residential	Residential/Commercial

J. Utilities

The Subject is served with the following utilities:

Water: City of New York
Sanitary Sewer: City of New York
Storm Sewer: City of New York and/or On-site
Electric: Consolidated Edison
Natural Gas: Consolidated Edison

K. Subject Description

The Subject is a 1+ acre parcel located in Queens County that is presently a vacant site.

L. Current Uses of the Property

The Subject is presently a vegetated, vacant lot with no structures.

M. Environmental Permits

Based on our research, no environmental permits such as wastewater discharge permits, State Pollution Discharge Elimination System (SPDES), Stormwater Pollution Prevention Plan (SWPPP), or NYC sewer connection permits were ever obtained for the Subject.

N. Historical Land Use

1. Sanborn Fire Insurance Maps (Sanborn Maps)

Sanborn Maps constitute a database of prior site uses of real property for many cities and towns in the United States. The maps were originally created to assist insurance underwriters in understanding the potential fire risk of any structure requiring insurance; however, they are also useful for determining the previous uses of the property. Sanborn Maps often contain a wealth of information relating to uses of individual structures, location of fuel storage tanks, chemical storage tanks, or both, and storage of other potentially toxic substances. Sanborn Maps begin their coverage in 1867 and continue through the present.

2. General

LA reviewed the available historical Sanborn Fire Insurance maps, topographic maps, city directories and official records at the New York City Building Department to determine the previous uses of the Subject and surrounding properties. Based upon this review, the Subject and in the immediate vicinity of the Subject contained single-family homes.

3. Topographic Maps

LA reviewed the USGS Queens, *New York - 7.5 Minute Series* topographic map of the Subject. Properties to the north are topographically down gradient from the Subject.

Aerial Photographs

Aerial photographs provide visual documentation of site conditions at the time of the photographs. Activities such as dumping or past manufacturing use of a site can be discerned through the examination of historical aerial photographs. The photographs indicated that there were no large-scale activities in the past that could have impacted the Subject Site. Since the Subject Site is relatively small, the review of the Sanborn Maps and site inspection provided a more accurate assessment of past and present used on and adjacent to the Subject property.

5. Building Permits:

LA reviewed building permits and historic information regarding the Subject Site on file at the New York City Building Department. General building permits for the Project were on file, but did not reveal any information or condition that could impact the environmental integrity of the Project.

IV. REGULATORY REVIEW

A copy of regulatory databases contained within a Computerized Environmental Report (CER) provided by Toxics Targeting, Inc. (TTI) is provided in Appendix B. The CER provides a listing of all federal and state standard source environmental records within the approximate search distance specified by the standard protocol of the American Society for Testing and Materials (ASTM). Table 3 provides the databases reviewed and the number of sites within the minimum search radius.

LA reviewed each environmental database on a site-by-site basis to determine if any of the Recognized Environmental Conditions identified in the CER are suspected to have a negative impact on the Subject.

1. NPL and De-Listed NPL Sites

This is a list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA or “Superfund”). A site must be on the NPL to receive money from the Trust Fund for Remedial Action. A list of the de-listed NPL sites includes sites that were once listed in the NPL database.

Analysis/Comment: The TTI CER did not identify any NPL sites with a one-mile radius of the Subject or any de-listed NPL sites within a one-half mile radius of the Subject.

2. CERCLIS Superfund NFRAP and Non-NFRAP Sites

CERCLIS (Comprehensive Environmental, Response, Compensation and Liability Information System) is the USEPA’s system for tracking potential hazardous waste sites within the Superfund program. A federal listing of non-NFRAP sites that can pose environmental or public health hazards requiring investigation or cleanup. A federal listing of CERCLIS NFRAP sites have no further remedial action planned.

Analysis/Comment: The TTI CER did not identify any CERCLIS NFRAP or Non-NFRAP sites within a one-half mile radius of the Subject.

3. RCRA Corrective Action Activity (CORRACTS)

The CORRACTS are waste facilities with RCRA corrective action activity reported by the USEPA.

Analysis/Comment: The TTI CER did not identify any RCRA

CORRACTS facilities within a one-mile radius of the Subject.

Table 3
Databases Reviewed and Number of Sites
Within Minimum Search Distance

Databases Reviewed	Minimum Search Radius	Number of Sites Within Minimum Search Radius
ASTM Required 1 Mile Search		
National Priorities List (NPL) Sites	1 Mile Radius	0
New York State Inactive Hazardous Waste Registry	1 Mile Radius	0
NYS Inactive Hazardous Waste Disposal Site Qualifying	1 Mile Radius	0
RCRA Corrective Action Activity (CORRACTS) Sites	1 Mile Radius	0
ASTM Required ½ Mile Search		0
De-Listed National Priority List (NPL) Sites	1/2-Mile Radius	0
CERCLIS Superfund Non-NFRAP Sites	1/2-Mile Radius	0
CERCLIS Superfund NFRAP Sites	1/2-Mile Radius	0
Brownfield Sites	1/2-Mile Radius	0
Voluntary Cleanup Program	1/2-Mile Radius	0
Environmental Restoration Program	1/2-Mile Radius	0
Brownfield Cleanup Program	1/2-Mile Radius	0
New York State Solid Waste Facilities/Landfills	1/2-Mile Radius	0
RCRA Hazardous Waste Treatment, Storage, Disposal Sites	1/2-Mile Radius	0
New York State Toxic Spills		
Active Tank Failures	1/2-Mile Radius	1
Active Tank Test Failures	1/2-Mile Radius	2
Active Spills – Unknown/Other Causes	1/2-Mile Radius	4
Active Spills – Miscellaneous Causes	1/2-Mile Radius	2
Closed Tank Failures	1/2-Mile Radius	5
Closed Tank Test Failures	1/2-Mile Radius	1
Closed Spills – Unknown/Other Causes	1/2-Mile Radius	36
Closed Spills – Miscellaneous Causes	1/2-Mile Radius	13
ASTM Required Property & Adj. Property – 1/8-Mi.		
New York State Major Oil Storage Facilities	1/8-Mile Radius	0
Local and State Petroleum Bulk Storage Sites	1/8-Mile Radius	1
RCRA Hazardous Waste Generators and Transporters	1/8-Mile Radius	2
New York State Chemical Bulk Storage Sites	1/8-Mile Radius	0
Historic Utilities Facilities	1/8-Mile Radius	0
ASTM Required On-Site Only Search		
NYC Environmental Quality Review Reqs. (“E”) Sites	On-Site	0
Emergency Response Notification System ERNS	On-Site	0
Institutional Controls/Engineering Controls (IC/EC)	On-Site	0
Non-ASTM Databases 1/2-Mile Search		

1934 NYC Municipal Waste Landfills	1/2-Mile Radius	1
Hazardous Substance Waste Disposal Sites	1/2-Mile Radius	0
Non-ASTM Databases 1/8-Mile Search		
Toxic Release Inventory Sites (TRI)	1/8-Mile Radius	0
Permit Compliance System (PCS) Toxic WW Discharges	1/8-Mile Radius	0
Air Discharges	1/8-Mile Radius	0
Civil & Administrative Enforcement Docket Facilities	1/8-Mile Radius	0

4. RCRA Corrective Action Activity (CORRACTS)

The CORRACTS are waste facilities with RCRA corrective action activity reported by the USEPA.

Analysis/Comment: The TTI CER did not identify any RCRA CORRACTS facilities within a one-mile radius of the Subject.

4. Inactive Hazardous Waste Registry (IHWR) or Registry Qualifying Sites (RQS)

The IHWR list is an inventory of dumps, landfills, and other toxic sites listed by New York State Environmental and Health Authorities. This list also includes Registry Qualifying Sites (RQS).

Analysis/Comment: The TTI CER did not identify any IHWR or RQS sites within a one-mile radius of the Subject.

5. RCRA Hazardous Waste Treatment, Storage and Disposal Sites

This is a state listing of sites contaminated with toxic substances that can pose environmental or public health hazards. These sites are not eligible for state clean up funding programs.

Analysis/Comment: The TTI CER did not identify any facilities listed in this database within a one-half mile radius of the Subject.

6. Brownfields Sites (Voluntary Cleanup Program, Environmental Restoration Program, Brownfield Cleanup Program)

The New York State Brownfield Cleanup Sites is a listing of sites that are abandoned, idled or under-used industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Analysis/Comment: The TTI CER did not identify any Brownfield Sites within a one-half mile radius of the Subject.

7. New York State Dept. of Environmental Conservation (DEC) Solid Waste Facilities/Landfills

This database contains active and inactive landfills, incinerators, transfer stations or other solid waste management facilities.

Analysis/Comment: The TTI CER did not identify any New York State DEC solid waste facilities or landfills within a one-half mile radius of the Subject.

8. 1934 NYC Municipal Waste Landfills

The NYC Municipal Waste Landfill list is an inventory of landfills, incinerators, transfer stations, and other sites that manage solid wastes.

Analysis/Comment: The TTI CER identified one 1934 NYC Municipal Waste Landfill site within a one-half mile radius of the Subject. This site is described in Table 4 below.

Table 4
1934 NYC Municipal Waste Landfill Site
Within 1/2-Mile of Subject

Address:	147 th Street & 150 th Avenue
ID No.:	400A-0002-303
Distance and Direction:	2519' SSE
Topographic Relationship with the Subject:	Down gradient (at a lower elevation)
Waste Type:	Municipal

9. New York State Major Oil Storage Facilities

The New York State Major Oil Storage Facility list is an inventory of sites with more than a 400,000-gallon capacity for storing petroleum products.

Analysis/Comment: The TTI CER did not identify any Major Oil Storage Facilities within a one-eighth mile radius of the Subject.

10. RCRA Hazardous Waste Generators and Transporters

These sites are reported by the New York State manifest system and the U.S. Environmental Protection Agency's Resource Conservation and Recovery Act Information System. Under RCRA, generators are classified by the weight of hazardous waste generated in a calendar month into the following categories: Large Quantity Generator, 1,000 kilograms (kgs) or more; Small Quantity Generator, 100 to 1,000 kgs; and Conditionally-Exempt Small Quantity Generator, less than 100 kgs. RCRA Generators, while they represent some form of hazardous waste activity, are most significant if they are determined to have Class I Violations or to be out of

compliance.

Analysis/Comment: The TTI CER identified two (2) New York and Federal Hazardous Waste Generator and Transporter within a one-eighth mile radius of the Subject. These sites are summarized in Table 5.

Table 5

NYS and Federal Hazardous Waste Generators and Transporters within 1/8-Mile of Subject

Property Name:	Consolidated Edison
Address:	V8479-138-10 135 th Avenue
ID No.:	NYP0040701199
Distance and Direction:	592' WSW
Topographic Relationship with the Subject:	Down gradient (at a lower elevation)
Waste Type:	Oil with PCBs

Property Name:	V8479
Address:	138-10 135 th Avenue
ID No.:	NYP0040341286
Distance and Direction:	592' WSW
Topographic Relationship with the Subject:	Down gradient (at a lower elevation)
Waste Type:	Oil with PCBs

11. Local and State Registered Petroleum Bulk Storage (RPBS) Facilities

The PBS facility list is an inventory of all petroleum storage facilities that have greater than 1,100 gallons and less than 400,000 gallons of capacity that are registered with the NYSDEC. The Subject does not have any USTs onsite.

Analysis/Comment: The TTI CER identified one RPBS facility within a one-eighth mile radius of the Subject. This site is listed in Table 6.

Table 6
State Registered Petroleum Bulk Storage (RPBS) Facility Within 1/8th Mile Radius of Subject

Facility Name & Address	Tank Size (gallons)	Tank Content	Location
Double Tree JFK Airport 135-30 140 th Street	7500 & 4000	No. 2 & No. 6 Fuel Oil	353' WSW

12. New York State Toxic Spills

This is a list of active tank failures, active tank test failures, active unknown and miscellaneous spills, closed tank failures, closed tank test failures and

closed spills from unknown and miscellaneous causes. It includes stationary and non-stationary source spills reported to state and federal agencies, including remediated and unremediated leaking USTs.

Analysis/Comment: ELA identified 104 New York State Toxic Spills sites within a one-half mile radius of the Subject. The TTI CER provides information on each of these sites. A partial list of these sites is provided in Table 7.

13. Historic Utilities Facilities

These sites contain power generating stations, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites.

Analysis/Comment: The TTI CER identified no Historic Utility Facilities within one-eighth mile radius from the Subject.

14. Air Discharge Facilities

These sites contain air pollution sources that are monitored by the EPA and/or state and local regulatory agencies.

Analysis/Comment: The TTI CER did not identify any Air Discharge Facilities within a one-eighth mile radius of the Subject.

15. Hazardous Substance Waste Disposal Sites

This list contains sites contaminated with toxic substances that can pose environmental or public health hazards.

Analysis/Comment: The TTI CER did not identify any Hazardous Substance Waste Disposal Sites within a one-half mile radius of the Subject.

16. ASTM-Required On-Site Only Search – NYC Environmental Quality Review Requirements (“E”), Emergency Response Notification System (ERNS) and Institutional Controls/Engineering Controls (IC/EC) Sites

The NYC Environmental Quality Review Requirements contain sites that have been assigned a special “E” designation under the CEQR process. The ERNS is a list of federally reported spills. IC/EC sites are sites that have had actions, such as legal controls, applied to them that help minimize the potential for human exposure to contamination by ensuring appropriate

land or resource use.

Analysis/Comment: The TTI CER did not identify any NYC Environmental Quality Review Requirements, ERNS and IC/EC sites on the Subject.

Table 7
Selected New York State Toxic Spills Sites
Within 1/2-Mile Radius of Subject

Facility Name & Address	Spill Date	Quantity & Material Spilled	Resource Affected	Location
JFKIA Building 110 JFK Airport	5/15/95	1.0 diesel fuel (Tank Failure)	Soil	2407' SE
JFK Holiday Inn 144-02 135th Ave.	7/20/07	0.0-gal. Petroleum (Test Failure)	Soil	336' ESE
Cumberland Farms 13344 150th Street	7/8/08	0.0-gal. Unknown (Unknown Cause Spill)	Soil	2133' E
Building 204 JFK Airport Bldg. 204	6/29/95	1.0-gal. Gasoline (Unknown Cause Spill)	Soil	2395' SSE
JFKIA – Building 110 JFK Airport – JFKIA	8/1/92	1.0-gal. Gasoline/MTBE (Unknown Cause Spill)	Groundwater	2405' SE
N. Conduit Tank Truck Crash Westbound Conduit & Van Wyck	3/3/08	3000 gal. Diesel/Gasoline – Traffic Accident (Misc. Cause Spill)	Groundwater	1314' WSW
Rockaway Mason Supply 145-15 Rockaway Blvd.	12/2/08	Unknown, Gasoline (Misc. Cause Spill)	Soil/Groundwater	2532' NNE
Aircraft Bldg. 87 JFK Main Street	6/23/07	100.0-gal., Jet (Active Spill, Misc. Cause)	Sewer	1803' S
145-11 North Conduit Ave. 1145-11 North Conduit Ave.	1/5/98	0.0-gal., #2 Fuel, Diesel, Gasoline (Closed Status Tank Failure)	Soil	882' ESE
Mobil S/S 132-40 S. Conduit Ave.	9/5/90	0.0-gal., Gasoline (Closed Status Tank Failure)	Groundwater	2534' WSW
Viscount Hotel JFK Airport Viscount Hotel	11/27/90	200.0-gal., No. 6 Fuel Oil (Closed Status Tank Failure)	Sewer	2549' WSW
124-27 135th Place 124-27 135th Place	8/13/02	Unknown (Closed Status Tank Failure)	Soil	2560' NW
Building 67 JFK Airport – Bldg. 67	1/13/94	1.0-lb., Petroleum	Soil	2613' SSW
Mobil S/S 132-40 S. Conduit Ave.	10/02/90	0.0-gal., Waste/Unused Oil (Closed Status Tank Test Failure)	Soil	2534' WSW
134-11 Van Wyck Exp. 134-11 Van Wyck Exp.	8/30/03	0.0-gal., Unknown (Closed Status Unknown Cause)	Air	835' W
X 100 35th Avenue/Inwood Street	2/23/00	0.0-gal., Gasoline (Closed Status Unknown Cause)	Soil	974' E
135 Ave. 4KV Substation 135 Avenue & Inwood Street	1/9/06	0.0-gal., Petroleum (Closed Status Unknown Cause)	Soil	974' E

17. Non-ASTM Databases 1/8-Mile Search – Toxic Release Inventory Site (TRI), Federal Permit Compliance System (PCS) Toxic Wastewater Discharges, Federal Air Discharges and Civil & Administrative Enforcement Docket Facilities

TRI sites are sites that have discharged selected toxic chemicals to air, land and water or treatment facilities. PCS sites contain sites with permitted toxic wastewater discharges. Federal Air Discharges contain air pollution point sources monitored by U.S. EPA and/or state and local air regulatory agencies. Civil & Administrative Enforcement Docket Facilities contain sites that have had judiciary cases filed on behalf of the U.S. EPA by the Department of Justice.

Analysis/Comment: The TTI CER did not identify any TRI, PCS, Federal Air Discharge or Civil & Administrative Enforcement Docket Facilities sites with a one-eighth mile radius of the Subject.

V. SITE RECONNAISSANCE

A. Site Visit Information

Site Inspection Conducted By: George Wright
Date of Site Visit: April 11, 2009
Weather: Rain, 49°

B. Raw Materials Stored or Used On-Site

1. Chemical Storage and Usage

There is no chemical storage or usage on the Subject.

2. Petroleum Bulk Storage (PBS) Tanks

There were no PBS tanks observed on the Subject.

C. Site Waste and Wastewater

1. Solid Waste

With the exception of minor debris and trash in the rear parking lot, the grounds surrounding the Subject are well-landscaped and/or paved.

2. Sanitary Sewage

Sanitary sewage disposal is provided by the City of New York. LA did not observe any sources of wastewater or liquid discharge into the sewer other than sanitary sewage.

3. Hazardous Waste

No hazardous waste was observed or reported to be generated on the Subject.

D. Site Observations

1. Stained Soil, Stained Pavement, or Stressed Vegetation

There was no evidence of soil staining or stressed vegetation on-site.

2. Liquid Discharges

No visible evidence of liquid discharges into or from the Subject was observed during the survey.

3. Pools of Liquid

LA did not observe standing surface water or pools containing liquids likely to be hazardous substances or petroleum products.

4. Odors

LA did not identify strong, pungent, or noxious odors suspected to represent any environmental concerns.

5. Pits, Ponds, or Lagoons

LA did not observe pits, ponds, or lagoons suspected of containing hazardous substances or petroleum products on the Subject.

6. Drums and Containers for Storing Waste

LA did not identify any containers suspected of storing hazardous substances.

7. Polychlorinated Biphenyls (PCBs)

LA did not identify any sources of PCBs onsite.

8. Floor Drains and Sumps

LA did not observe any floor drains or sumps that could represent any environmental concerns.

9. Air Emissions

LA did not observe any air emission sources that could represent any environmental concerns.

10. Wells

Water wells were not identified on the Subject.

11. Radon

It is unlikely that a radon hazard condition exists on the Subject property.

12. Asbestos

It is unlikely that an asbestos hazard condition exists on the Subject property.

VI. FINDINGS AND CONCLUSIONS

LA has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E 1527-05. This report documents the findings of a Phase I Environmental Site Assessment at 135-08 142nd Street (the "Subject"), South Ozone Park (Queens County), New York. The property, which is situated in an area characterized by residential and commercial development along 135-08 142nd Street consists of a 1+ acre parcel that is presently a vegetated vacant lot.

Based on the findings in this Phase I Environmental Site Assessment, LA believes there is no reason to suspect the presence of any environmental concerns at the Subject and it is recommended that no further investigations be performed.

VII. LIMITING CONDITIONS

1. This report has been prepared in accordance with generally accepted practices for conducting a Phase I Environmental Site Assessment in compliance with the ASTM standard entitled “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.” The purpose of this assessment was to determine the presence of hazardous substances or petroleum product conditions on the Subject, if any; and to render an opinion.
2. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services in the time and budgetary constraints imposed by the client. The work described in this report was carried out in accordance with the Terms and Conditions in the contract.
3. In preparing this report, LA has relied on certain information provided by federal, state, and local officials and other parties referenced therein, and on information contained in the files of state agencies, local agencies, or both, available to LA at the time of this site assessment. Although there may have been some degree of overlap in the information provided by these various sources, LA did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment. Observations were made of the site and of the structures on the site as indicated in this report. Where access to portions of the site or to structures on the site was unavailable or limited, LA renders no opinion as to the presence of indirect evidence relating to petroleum substances, hazardous substances, or both, in that portion of the site and structure. In addition, LA renders no opinion as to the presence of indirect evidence relating to hazardous material or oil, where direct observation of the interior walls, floors, ceiling or a structure is obstructed by objects covering on or over these surfaces.
4. This report was prepared on behalf of and for the exclusive use of Tserpes Holding LLC and may not be relied upon by any other person or entity. The contents of this report may not be quoted in whole or in part or distributed to any other person or entity other than Tserpes Holding LLC without, in each individual case, the advanced written consent of an officer of LA.
5. LA does not represent that the site referred to herein contains no petroleum or hazardous or toxic substances or other conditions beyond those observed by LA during the site assessment.

VII. LIMITING CONDITIONS

6. As part of this assessment, LA submitted requests for information via the Freedom of Information Act (FOIA) to various governmental agencies. As of the preparation of this report these requests may not have been fulfilled. The conclusions of this report are subject to change upon receipt of a response from these FOIA requests.

**SIGNATURE OF ENVIRONMENTAL PROFESSIONAL PARTICIPATING
IN THE PHASE I ENVIRONMENTAL ASSESSMENT**

George Wright
Certified Environmental Inspector
Lemonides Associates

Appendix D:
Phase II Environmental Site Assessment



Brickhouse Environmental

DRAFT
PHASE II ENVIRONMENTAL SITE ASSESSMENT

135-08 142ND STREET
BLOCK 12095, LOTS 2 & 6
QUEENS, NEW YORK

PREPARED FOR:

MR. GEORGE TSERPES
TSERPES HOLDING, LLC.
271 OCEAN AVENUE
LYNBROOK, NEW YORK 11563

SEPTEMBER 16, 2010

BE PROJECT No. 10-2658-0

PREPARED BY:

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TABLE OF CONTENTS

	<u>Page</u>
1.0 Introduction	1
2.0 Field Investigation	
2.1 Field Preparation.....	2
2.2 Soil Boring Installation	2
2.3 Temporary Well Installation.....	3
2.4 Temporary Well Sampling.....	4
2.5 Temporary Well Abandonment.....	4
3.0 Soil and Groundwater Sampling Results	4
4.0 Summary of Findings and Conclusions	5

LIST OF APPENDICES

- Appendix A Figures and Analytical Summary Tables
- Appendix B Soil Boring Logs and Temporary Well Point Construction Details
- Appendix C Laboratory Analytical Reports and Chain of Custody Documentation

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1.0 INTRODUCTION/BACKGROUND

Brickhouse Environmental has prepared this Phase II Environmental Site Assessment Report on behalf of Tserpes Holding, LLC. The Project Site is located at 135-08 142nd Street, Town of South Ozone Park, Borough of Queens, State of New York (the Site) (Figure 1). The Site is situated on 1.02± acres along the western side of 142nd Street, between 135th Avenue and North Conduit Avenue. The property is currently a vacant, unimproved lot covered by mowed grass (Figure 2). Residential dwellings are located to the north and west. The parking lot for a hotel is located to the east, and North Conduit Avenue and the Belt Parkway are located to the South. The JFK Airport is located beyond the Belt Parkway to the South. Topography of the Site and surrounding area slopes very gradually to the South toward Jamaica Bay approximately 2,000 feet to the South of the Site. Based on topography and surface water features, groundwater flow is anticipated to be to the South.

In preparing to conduct this investigation, Brickhouse Environmental reviewed a January 2010 Environmental Assessment Statement prepared for Tserpes Holdings, LLC. The Assessment included a summary of a Phase I Environmental Site Assessment (ESA) report prepared for the Site by Evan Lemonides Associated dated September 23, 2009. This review was conducted in order to obtain additional background information related to proposed future development of the Site as a Hotel, and to obtain data related to existing and historic conditions associated with the Subject Site and surrounding area.

Based on a review of these documents, the Site has never been utilized for commercial or industrial purposes associated with the generation, treatment, storage, or disposal of hazardous materials or petroleum products. The upgradient land uses are dominated by residential dwellings. Further, there are no documented historic off site releases of hazardous substances or petroleum products in the vicinity of the Site of a character or magnitude likely to impact the Site. Therefore, it was concluded that there is no potential for significant adverse environmental impacts on the Site and a Phase II Investigation was not warranted or recommended.

However, upon review of the above referenced documents, the New York City Department of Environmental Protection determined that due to a number of minor releases occurring at remote (generally ¼ to ½ mile) off-site properties upgradient of the Site, and due to the presence of a thin veneer of fill material at the surface of the ground, further investigation would be necessary to confirm the conclusions contained in the Phase I ESA report and Environmental Assessment Statement.

This Phase II Environmental Site Assessment was conducted in accordance with April 2010 Work Plan for the Site prepared by Soil Mechanics Environmental Services (SMES), and subsequently approved by the New York City Department of Environmental Protection (NYCDEP) in a letter dated June 1, 2010.



2.0 FIELD INVESTIGATION

2.1 Field Preparation

As required by the Work Plan, Brickhouse Environmental notified the NYCDEP that commencement of field activities would be conducted on August 31, 2010 in a letter dated August 16, 2010. Prior to conducting the subsurface investigation, a utility mark-out request was made through the New York City One Call system for clearance and mark-out of belowground utilities that may be present in or near the work area. The Site owner was also contacted in regard to on-site private utilities.

A Site-Specific Sampling and Analysis (S&A) Plan was prepared to detail the sampling program. The S&A Plan included laboratory methods, quality assurance/quality control (QA/QC) procedures, sample collection and handling procedures, and bottle/sample delivery schedules. A Site-Specific Health & Safety Plan was also prepared to ensure that standard safety procedures were followed and that field personnel were aware of potential hazards associated with the project.

2.2 Soil Boring Installation

Field work was conducted by Brickhouse Environmental on August 31, 2010. The investigation consisted of the installation of soil borings and temporary groundwater monitoring points using direct push technology. ZEBRA Environmental Corp. of Lynbrook, New York, provided Geoprobe® drilling services.

Consistent with the Work Plan, a total of four soil borings (B-1 through B-4) were installed on August 31, 2010. Borings B-1 through B-3 were advanced to depths of 20 feet below grade, and boring B-4 was advanced to a depth of 17 feet below grade. Refer to Figure 3 for a map of soil boring locations. Soil boring B-1 was advanced along the northern property boundary, B-2 and B-3 were advanced along the southern property boundary, and B-4 was advanced at a central location at the Site. Boring logs containing written descriptions of the conditions encountered at each boring are attached (Appendix B).

At each boring location, continuous cores were field screened and characterized for the presence of odors, staining, or other obvious evidence of impact. The soil cores and work area surrounding the Geoprobe machine were also screened for organic vapors using a calibrated Photo-Ionization Detector (PID). No organic vapors were detected throughout the course of the investigation. In addition, no other obvious signs of contamination, including staining or odors were observed in any of the four borings. The soils were logged based on color, grain size, and moisture content. The soil boring investigation showed a sequence of dry fill material consisting of Sand and Gravel with occasional fragments of asphalt. The thickness of the fill varied from zero feet (B-1) to 2 feet (B-2).



No odors or signs of environmental impact were observed in the thin veneer of fill material

Below surface fill materials are naturally deposited layers of fine to medium sand. No Bedrock or significant changes in lithology were encountered to 20 ft bgs. Saturated conditions indicating the upper surface of the water table was encountered at depths ranging from 12.4 feet below grade at B-1, along the northern property boundary, to approximately 19 feet below grade along the southern property boundary at B-2 and B-3. This data indicates a clear groundwater gradient to the south as anticipated based on a review of the prior reports prepared for the Site.

Two (2) grab soil samples were collected from each soil boring for laboratory analysis. The first sample was collected from surface soils approximately 1.5-2.0 feet below existing grade. These samples are representative of the top soil and thin veneer of fill material at the surface. The Work Plan called for the collection of the second sample to be biased toward any sign of subsurface impact. However, since no evidence of impact was observed, the second sample was collected from deeper subsurface materials located just above or slightly below the water table.

A Brickhouse geoscientist completed all sampling activities, in compliance with appropriate sampling and decontamination protocols recognized by the NYSDEC. Discrete soil grab samples were collected directly from the Geoprobe sample core which was promptly placed in laboratory supplied glassware for the analysis of volatile organic compounds (VOCs) by EPA Method 8260. Additional sample material was also placed into laboratory supplied glassware for semi-volatile organic compounds – base neutrals by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082, and TAL metals. Each sample was labeled with the time, date, and location, and then stored in a clean ice-filled insulated cooler. Custody of the samples was documented using laboratory chain-of-custody forms. All samples were submitted to Test America, Inc. of Buffalo, New York, a New York State Department of Health (NYSDOH) Environmental Laboratory Approved Program (ELAP) certified laboratory for analysis.

2.3 Temporary Well Installation

In addition to the soil boring investigation, Brickhouse Environmental collected representative groundwater samples by constructing temporary well points in three of the four soil borings on August 31, 2010.

MW-1 was installed in soil boring B-1, MW-2 was installed in soil boring B-2, and MW-3 was installed in soil boring B-3. Well constructions are provided on the attached boring logs (Appendix B). Each temporary well point was constructed of 1-inch diameter schedule 40 PVC screen and riser set in the soil boring. Screen was installed in each temporary well point from 10 to 20 ft bgs.



2.4 Temporary Well Sampling

Groundwater samples were collected from temporary wells MW-1, MW-2, and MW-3 on August 31, 2010. Prior to sample collection, each well was purged using a peristaltic pump until the water was free of visible suspended sediment. After purging, a groundwater sample was collected from each temporary monitoring point using a new disposable bailer. Odors, sheens or other evidence of impact was not observed in the water obtained from any of the temporary monitoring wells (MW-1 through MW-3).

The groundwater samples were placed directly into laboratory prepared bottleware and immediately placed on ice in a hard plastic cooler to aid in sample preservation. The dissolved TAL metals sample was field filtered through a 0.45 um disposable groundwater filter. The groundwater samples were transported to Test America Laboratories of Buffalo, New York under chain of custody procedures. The groundwater samples were analyzed for VOCs by EPA Method 8260, semi-volatile organic compounds – base neutrals by EPA Method 8270, pesticides/PCBs by EPA Method 8081/8082, and TAL metals (via filtered and unfiltered analysis). The analytical results are discussed in Section 3.0 below.

2.5 Temporary Well Abandonment

After sampling, each of the three temporary well points was abandoned on August 31, 2010. The wells were abandoned by removing the PVC pipe. The boreholes were then backfilled using bentonite and the soil cuttings from the respective boring.

3.0 SOIL AND GROUNDWATER SAMPLING RESULTS

Each of the soil and groundwater samples was analyzed for VOCs by EPA Method 8260, semi-volatile organic compounds – base neutrals by EPA Method 8270, pesticides/PCBs by EPA Method 8081/8082, and TAL metals (via filtered and unfiltered analysis for groundwater). The results of the soil laboratory analyses are summarized in Table 1. The results of the groundwater laboratory analyses are summarized in Table 2. The complete laboratory analytical report is provided in Appendix C.

Soil analytical results were compared to NYSDEC Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives. The groundwater results were compared to the NYSDEC Part 703: Surface Water and Groundwater Quality Standards for class GA Groundwater, which are the minimum standards applicable to potable drinking water wells. Where applicable, these standards are also listed on the table.

No compounds were identified above laboratory method detection limits in soil samples from the Site for the analysis of VOCs, semi-volatile organic compounds – base neutrals, pesticides, and PCBs. Typical concentrations of various naturally occurring



metals were detected in the soil samples however, none of the detections exceeded their respective NYSDEC Unrestricted Use Soil Cleanup Objective. Soil quality meeting these standards indicates there would be no restrictions for the use of Site soil and that future land development would not be restricted with respect to Site soil quality.

No compounds were identified above laboratory method detection limits in Site groundwater samples from the Site for the analysis of VOCs, semi-volatile organic compounds – base neutrals, pesticides, and PCBs. These results confirm the absence of environmental impact to Site groundwater from the remote upgradient off-Site releases identified by NYCDEP review of the September 2009 Environmental Site Assessment report.

Typical concentrations of various naturally occurring metals were detected in the groundwater samples. The metals iron, manganese, sodium and cobalt were detected just in slight exceedance of the Class GA (i.e. fresh groundwater) groundwater standards in MW-1. Sodium was the only metal detected above the standard in MW-2. Cobalt, manganese and sodium were detected above their respective standard in MW-3. No patterns were observed in the occurrence of these metals across the Site, which groundwater flowing onto the property at the upgradient northern property line present in the same general range of concentrations as the groundwater flowing beyond the downgradient property line.

At this Site, the minor exceedances of the Class GA standards for select metals does not indicate environmental impact from on or off-site releases of hazardous substances or petroleum products. Rather, the results reflect the natural interaction of the groundwater with the sand comprising the aquifer materials. The results do indicate that the water table aquifer would not be suitable for drinking water purposes without appropriate filtration or other means of water quality treatment. A hotel utilizing off-site public drinking water supplies is proposed for the Site. Site groundwater is not proposed for use as a drinking water supply. Therefore, the presence of these naturally occurring metals should not restrict the future development of the property, and no further investigation into groundwater quality conditions is recommended or warranted.

4.0 SUMMARY OF FINDINGS AND CONCLUSIONS

Based on the soil and groundwater sampling conducted during the Phase II Environmental Assessment, the following is a summary of the findings and conclusions.

- The soil boring investigation showed a thin veneer of fill materials across portions of the property from the surface of the ground to a maximum a depth of 2 feet. Below the fill materials are naturally deposited layers of fine to medium sand. Bedrock was not encountered during this investigation up to 20 ft bgs.



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DRAFT

135-08 142ND ST./PHASE II ESA REPORT
BE PROJECT NO. 10-2658-0

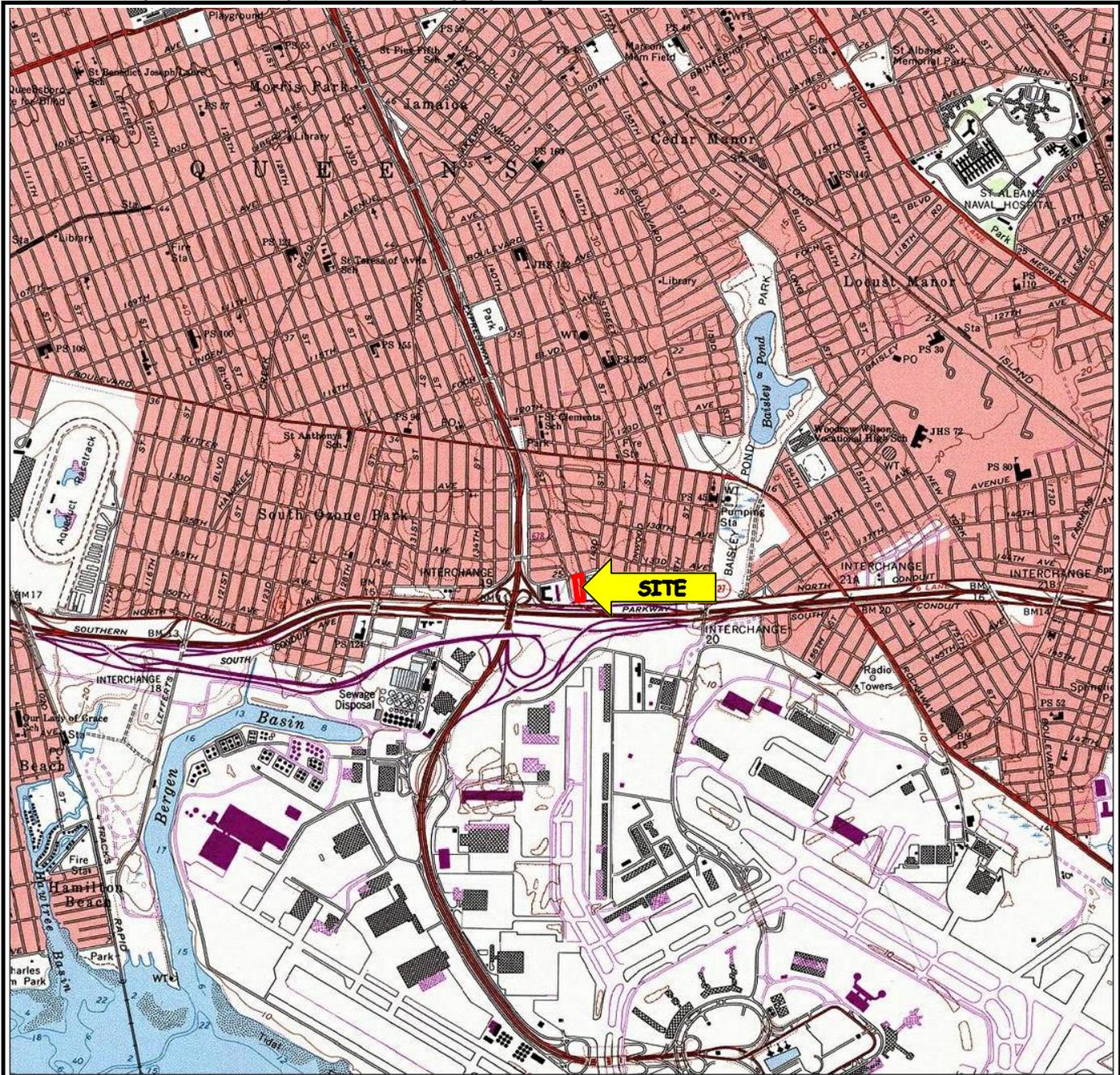
- Groundwater beneath the Site is approximately 12 to 19 feet below grade indicating a clear gradient from north to south toward Jamaica Bay approximately 2 miles south of the Site.
- Analysis of the soil samples revealed that all results were below laboratory method detection limits for the analysis of VOCs, semi-volatile organic compounds – base neutrals, pesticides and PCBs, and therefore, were below applicable NYSDEC soil standards. Detected concentrations of naturally occurring metals were also below their respective NYSDEC soil standards.
- Analysis of the groundwater samples revealed that all results were below laboratory method detection limits for the analysis of VOCs, semi-volatile organic compounds – base neutrals, pesticides and PCBs, and therefore, were below applicable NYSDEC groundwater standards. Although select metal concentrations slightly exceeded their respective NYSDEC class GA groundwater standards, these metals are typically found in shallow groundwater and are generally considered to be naturally occurring. The results do not indicate environmental impact from on or off-site releases of hazardous substances or petroleum products. Rather, the results reflect the natural interaction of the groundwater with the sand comprising the aquifer materials. Use of this groundwater for drinking water purposes would require appropriate filtration or other means of treatment in order to meet the applicable standards.
- The proposed use of the Site is for a hotel utilizing an off-site public drinking water source. Therefore, the presence of naturally occurring metals in the water table aquifer beneath the site should not restrict the future development of the Site.
- This investigation has not identified environmental conditions that would result in threats to human health or the environment. No further investigation is warranted or recommended.



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APPENDIX A

FIGURE AND SUMMARY TABLES



MN ↑ TN
133°

0 5 1 MILE
0 1000 FEET 0 500 1000 METERS
Map created with TOPO! © 2003 National Geographic (www.nationalgeographic.com/topo)

SCALE: AS NOTED



SOURCE: NATIONAL GEOGRAPHIC TOPOGRAPHIC QUADRANGLE MAPS (JAMAICA, NY-1994)

SITE LOCATION MAP

135-08 142nd STREET
QUEENS, NEW YORK



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PROJECT: 10-2658.0
FILE NO.: 102658.08L
DATE: 08/18/2010
SCALE: AS NOTED

FIGURE
1



*APPROXIMATE SITE BOUNDARY
SOURCE: GOOGLE MAPS

SITE AERIAL PHOTOGRAPH

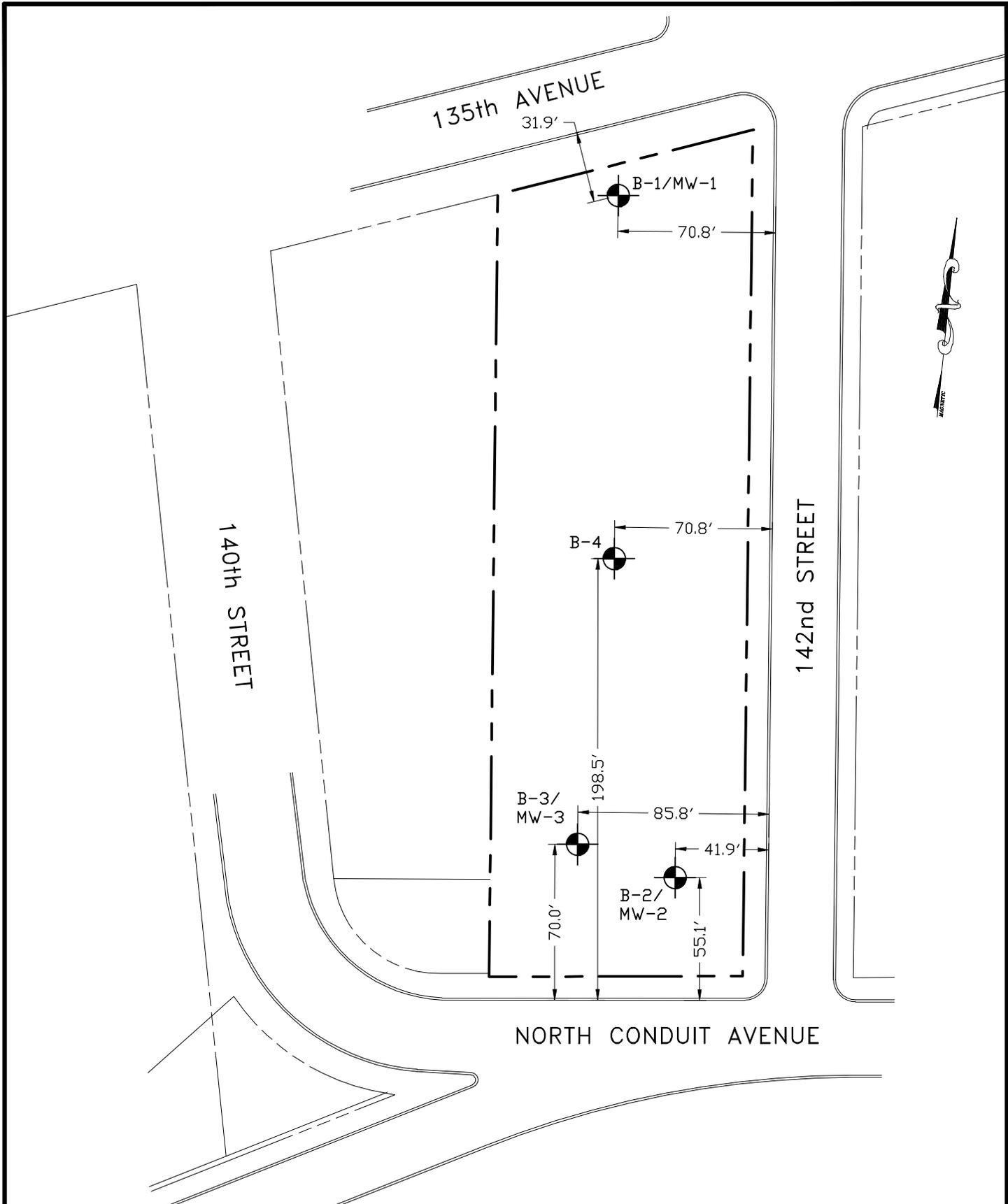
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135-08 142nd STREET
QUEENS, NEW YORK

PROJECT: 10-28865.0
FILE NO.: 102658.0AR
DATE: 09/18/2010
SCALE: APPROX. 1" = 100'

FIGURE
2





SOIL BORING LOCATION MAP

135-08 142nd STREET - QUEENS - NEW YORK



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PROJECT: 10-2658.0
FILE NO.: 102658.05B
DATE: 08/18/2010
SCALE: APPROX. 1" = 60'

FIGURE

3

Table 1
Soil Analytical Results
135-08 142nd St. Queens, NY
BE Project No. 10-2658-0

Sample Location	B-1		B-2		B-3		B-4		NYSDEC Unrestricted Use Cleanup Objective
	1.5-2' 8/31/2010	13.5-14' 8/31/2010	1.5-2' 8/31/2010	16.5-17' 8/31/2010	1.5-2' 8/31/2010	16.5-17' 8/31/2010	1.5-2' 8/31/2010	16.5-17' 8/31/2010	
VOCs by Method 8260B (ug/kg)									
No compounds detected									
SVOCs by Method 8270C (ug/kg)									
No compounds detected									
Metals by 6010B (mg/kg)									
Aluminum	5410 B	1530 B	5860 B	2530 B	3470 B	3250 B	4260 B	2190 B	NS
Arsenic	1.3 J,B	0.2 J, B	1.0 J,B	0.6 J,B	0.6 J,B	0.7 J,B	1.0 J,B	0.3 J,B	13
Barium	20.9 B	11.4 B	22.8 B	13.1 B	20.5 B	22.8 B	18.5 B	15.1 B	350
Beryllium	0.209 J	0.042 J	0.198	0.101 J	0.153 J	0.114 J	0.161 J	0.014 J	7.2
Cadmium	0.034 J	<0.227	0.068 J	0.039 J	0.075 J	0.047 J	0.073 J	0.047 J	2.5
Calcium	437 B	97.4 B	358 B	457 B	315 B	847 B	240 B	4990 B	NS
Chromium	10.5	2.82	12.3	5.78	8.25	5.85	11.3	4.74	30
Cobalt	2.24	1.77	3.64	2.36	2.93	3.29	3.34	2.46	NS
Copper	6.0	2.5	7.2	5.2	6.4	6.7	6.7	5.5	50
Iron	9880 B	2650 B	12400 B	6510 B	10500 B	7010 B	12200 B	4200 B	NS
Lead	3.6	0.7 J	2.4	1.2	4.3	1.2	1.9	1.0 J	63
Magnesium	633 B	539 B	1040 B	710 B	1050 B	1440 B	905 B	771 B	NS
Manganese	141	134	122	163	151	177	130	180	1600
Nickel	8.47	5.73	8.80	8.60	8.11	14.2	8.15	24.7	30
Potassium	139 B	347 B	150 B	253 B	389 B	778 B	242 B	302 B	NS
Selenium	0.9 J	<4.5	0.9 J	<4.1	0.8 J	0.7 J	1.1 J	<4.3	3.9
Sodium	28.6 J	27.1 J	103 J	95.0 J	48.0 J	87.0 J	45.3 J	69.7 J	NS
Thallium	<6.4	0.3 J,B	<5.9	<6.2	<6.3	<7.2	<6.3	<6.4	NS
Vanadium	11.0 B	3.52 B	15.0 B	5.85 B	9.92 B	7.87 B	10.8 B	4.57 B	NS
Zinc	12.4	9.3	12.1	7.6	14.7	10.7	19.6	13.5	109
Mercury	0.0429	<0.0216	<0.0210	<0.0203	<0.0207	<0.0243	<0.0193	<0.0207	0.18
Pesticides by Method 8081A (ug/kg)									
No compounds detected									
PCBs by Method 8082 (ug/kg)									
No compounds detected									

Notes:

NS = No Standard

J = Estimated Value

B = Analyte was detected in the associated Method Blank.

mg/kg = milligrams per kilogram (dry weight basis)

ug/kg = micrograms per kilogram (dry weight basis)

VOC = Volatile Organic Compound

Only detected compounds are presented. Refer to the analytical report for a list of all compounds

Table 2
Groundwater Analytical Results
135-08 142nd St. Queens, NY
BE Project No. 10-2658-0

Sample Location	MW-1	MW-2	MW-3	NYSDEC
Sampling Date	8/31/2010	8/31/2010	8/31/2010	Standard
VOCs by Method 8260B (ug/l)				
No compounds detected				
SVOCs by Method 8270C (ug/l)				
No compounds detected				
Total Metals by 6010B (mg/l)				
Aluminum	0.485	<0.200	<0.200	NS
Barium	0.0390	0.0694	0.0330	1
Calcium	61.6 B1,B	56.6 B1,B	60.5 B1,B	NS
Cobalt	0.0075	<0.0040	0.0070	0.005
Iron	1.06	0.153	0.298	0.3
Lead	0.0076	<0.0050	<0.0050	0.025
Magnesium	11.5	8.82	11.1	NS
Manganese	3.71	0.0796	3.25	0.3
Potassium	4.93	7.18	4.66	NS
Sodium	52.7	33.2	51.8	20
Dissolved Metals by 6010B (mg/l)				
Aluminum	<0.200	<0.200	0.254	NS
Barium	0.0342	0.0720	0.0372	1
Calcium	62.7 B1,B	59.9 B1,B	60.5 B1,B	NS
Cobalt	0.0082	<0.0040	0.0073	0.005
Iron	0.346	0.080	0.645	0.3
Lead	<0.0050	<0.0050	0.0065	0.025
Magnesium	11.8	9.29	11.4	NS
Manganese	3.77	0.156	3.57	0.3
Potassium	4.95	7.49	4.76	NS
Sodium	53.5	33.9	51.8	20
Zinc	0.0041	0.0048 J	0.0057	NS
Pesticides by Method 8081A (ug/l)				
No compounds detected				
PCBs by Method 8082 (ug/l)				
No compounds detected				

Notes:

J = Estimated value

B = Analyte was detected in the associated Method Blank.

B1 = Analyte concentration in the sample is greater than 10x the concentration found in the method blank.

VOC = Volatile Organic Compound

ug/l = micrograms per liter

mg/l = milligrams per liter

NA = Not Analyzed

NS = No Standard

Shaded data exceed the NYSDEC Class GA Groundwater Standard

Only detected compounds are presented. Refer to the analytical report for a list of all compounds



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APPENDIX B

SOIL BORING LOGS AND TEMPORARY WELL POINT CONSTRUCTION DETAILS



Log of B-1/MW-1

(Page 1 of 1)

Depth in Feet	GRAPHIC	DESCRIPTION	PID Response (ppm)	Sample ID	MW-1	Well Construction Information
0		TOPSOIL, brown, dry, no odor				WELL CONSTRUCTION Date Compl. : 8/31/10 Hole Diameter : 2 in. Drill. Method : Direct Push Geoprobe Company Rep. : Quincy and Jose INNER CASING Material : PVC Diameter : 1 in. Joints : threaded WELL SCREEN Material : PVC Diameter : 1 in. Joints : threaded Opening : .010 slot SAND PACK : Natural Sands ANNULUS SEAL : Bentonite Chips
1		FINE SAND, brown, dry, no odor	0.0	B-1:1.5-2'		
2		FINE SAND, light brown, dry, no odor	0.0			
3		FINE SAND, light brown, dry, no odor	0.0			
4		FINE SAND, light brown, dry, no odor	0.0			
5		FINE SAND, light brown, dry, no odor	0.0			
6		FINE to MEDIUM SAND, tan, dry, no odor	0.0			
7		FINE to MEDIUM SAND, tan, dry, no odor	0.0			
8		FINE to MEDIUM SAND, tan, dry, no odor	0.0			
9		FINE to MEDIUM SAND, tan, dry, no odor	0.0			
10		FINE to MEDIUM SAND, tan, dry, no odor	0.0			
11		FINE to MEDIUM SAND, tan, dry, no odor	0.0			
12		FINE to MEDIUM SAND, tan, dry, no odor	0.0			
13		FINE to MEDIUM SAND, tan, dry, no odor	0.0			
14		MEDIUM to COARSE SAND, light brown, wet, no odor	0.0	B-1:13.5-14'		
15		MEDIUM to COARSE SAND, light brown, wet, no odor	0.0			
16		MEDIUM to COARSE SAND, light brown, wet, no odor	0.0			
17		MEDIUM to COARSE SAND, light brown, wet, no odor	0.0			
18		MEDIUM to COARSE SAND, light brown, wet, no odor	0.0			
19		MEDIUM to COARSE SAND, light brown, wet, no odor	0.0			
20		MEDIUM to COARSE SAND, light brown, wet, no odor	0.0			

PID measurements taken with Brickhouse Environmental PID equipment , calibrated to 100 (ppm) of isobutylene.
Depth to water measured on 8/31/10.

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Log of B-2/MW-2

(Page 1 of 1)

Depth in Feet	GRAPHIC	DESCRIPTION	PID Response (ppm)	Sample ID	MW-2	Well Construction Information
0		SAND and GRAVEL, with asphalt subbase materials, brown, dry, no odor	0.0	B-2:1.5-2'		WELL CONSTRUCTION Date Compl. : 8/31/10 Hole Diameter : 2 in. Drill. Method : Direct Push Geoprobe Company Rep. : Quincy and Jose INNER CASING Material : PVC Diameter : 1 in. Joints : threaded WELL SCREEN Material : PVC Diameter : 1 in. Joints : threaded Opening : .010 slot SAND PACK : Natural Sands ANNULUS SEAL : Bentonite Chips
1			0.0			
2		FINE to MEDIUM SAND, brown, dry, no odor	0.0			
3			0.0			
4		FINE to MEDIUM SAND, light brown, dry, no odor	0.0			
5			0.0			
6			0.0			
7		FINE SAND, tan, dry, no odor	0.0			
8			0.0			
9			0.0			
10			0.0			
11			0.0			
12			0.0			
13			0.0			
14			0.0			
15		Moist @ 15'	0.0			
16			0.0			
17		Wet @ 17'	0.0	B-2:16.5-17'		
18			0.0			
19			0.0			
20			0.0			

PID measurements taken with Brickhouse Environmental PID equipment , calibrated to 100 (ppm) of isobutylene.
Depth to water measured on 8/31/10.

Log of B-2/MW-2

(Page 1 of 1)



Log of B-3/MW-3

(Page 1 of 1)

Depth in Feet	GRAPHIC	DESCRIPTION	PID Response (ppm)	Sample ID	MW-3	Well Construction Information
0		COARSE SAND and GRAVEL, with asphalt subbase materials, dark brown, dry, no odor	0.0			WELL CONSTRUCTION Date Compl. : 8/31/10 Hole Diameter : 2 in. Drill. Method : Direct Push Geoprobe Company Rep. : Quincy and Jose INNER CASING Material : PVC Diameter : 1 in. Joints : threaded WELL SCREEN Material : PVC Diameter : 1 in. Joints : threaded Opening : .010 slot SAND PACK : Natural Sands ANNULUS SEAL : Bentonite Chips
1			0.0	B-3:1.5-2'		
2		FINE to MEDIUM SAND, brown, dry, no odor	0.0			
3			0.0			
4			0.0			
5			0.0			
6		FINE SAND, tan, dry, no odor	0.0			
7			0.0			
8			0.0			
9			0.0			
10			0.0			
11			0.0			
12			0.0			
13			0.0			
14			0.0			
15		Moist @ 15'	0.0			
16			0.0			
17		Wet @ 17'	0.0	B-3:16.5-17'		
18			0.0			
19			0.0			
20			0.0			

PID measurements taken with Brickhouse Environmental PID equipment , calibrated to 100 (ppm) of isobutylene.
Depth to water measured on 8/31/10.

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Log of B-4

(Page 1 of 1)

Depth in Feet	GRAPHIC	DESCRIPTION	PID Response (ppm)	Sample ID
0		MEDIUM SAND and GRAVEL, brown, asphalt subbase, no odor		
1		MEDIUM SAND, orange, dry, no odor	0.0	B-4:1.5'-2'
2			0.0	
3		MEDIUM SAND, light orange, dry, no odor	0.0	
4			0.0	
5			0.0	
6			0.0	
7		FINE to MEDIUM SAND, tan, dry, no odor	0.0	
8			0.0	
9			0.0	
10			0.0	
11			0.0	
12			0.0	
13			0.0	
14			0.0	
15			0.0	
16		COARSE SAND, dark brown, wet, no odor	0.0	B-4:16.5'-17'
17			0.0	

PID measurements taken with Brickhouse Environmental PID equipment , calibrated to 100 (ppm) of isobutylene.
Temporary groundwater monitoring well not constructed.

Log of B-4

(Page 1 of 1)



Brickhouse Environmental

APPENDIX C

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

14 September 2010

Brickhouse Environmental

Dave Galajda
515 South Franklin Street
West Chester, PA 19382

RE: Queens, NY

Laboratory ID #: KT10058

Enclosed are the results of analyses for samples received by the laboratory on 09/02/10 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "O. Burgos", is displayed on a light gray rectangular background.

Oswaldo Burgos
Project Manager

Brickhouse Environmental
 515 South Franklin Street
 West Chester PA, 19382

Project: Queens, NY
 Project Number: 10-2658.0
 Project Manager: Dave Galajda

Reported:
 09/14/10 14:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1:1.5-2'	KTI0058-01	Soil	08/31/10 08:55	09/02/10 12:00
B-1:13.5-14'	KTI0058-02	Soil	08/31/10 09:07	09/02/10 12:00
B-4:1.5-2'	KTI0058-03	Soil	08/31/10 09:29	09/02/10 12:00
B-4:16.5-17'	KTI0058-04	Soil	08/31/10 09:48	09/02/10 12:00
B-2:1.5-2'	KTI0058-05	Soil	08/31/10 09:56	09/02/10 12:00
B-2:16.5-17'	KTI0058-06	Soil	08/31/10 10:22	09/02/10 12:00
B-3:1.5-2'	KTI0058-07	Soil	08/31/10 10:53	09/02/10 12:00
B-3:16.5-17'	KTI0058-08	Soil	08/31/10 11:17	09/02/10 12:00
MW-2	KTI0058-09	Water	08/31/10 11:30	09/02/10 12:00
MW-3	KTI0058-10	Water	08/31/10 11:47	09/02/10 12:00
MW-1	KTI0058-11	Water	08/31/10 12:15	09/02/10 12:00
TRIP BLANK	KTI0058-12	Water	08/26/10 00:00	09/02/10 12:00



Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1:1.5-2' (KT10058-01) Soil Sampled: 08/31/10 08:55 Received: 09/02/10 12:00									
1,1,1-Trichloroethane	ND	4.6	ug/kg dry	1	1010349	09/07/10	09/07/10 22:27	8260B	
1,1,2,2-Tetrachloroethane	ND	4.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.6	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	4.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.6	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	9.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.6	"	"	"	"	"	"	
2-Butanone (MEK)	ND	23	"	"	"	"	"	"	
2-Hexanone	ND	23	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	23	"	"	"	"	"	"	
Acetone	ND	23	"	"	"	"	"	"	
Benzene	ND	4.6	"	"	"	"	"	"	
Bromodichloromethane	ND	4.6	"	"	"	"	"	"	
Bromoform	ND	4.6	"	"	"	"	"	"	
Bromomethane	ND	4.6	"	"	"	"	"	"	
Carbon disulfide	ND	4.6	"	"	"	"	"	"	
Carbon Tetrachloride	ND	4.6	"	"	"	"	"	"	
Chlorobenzene	ND	4.6	"	"	"	"	"	"	
Chlorodibromomethane	ND	4.6	"	"	"	"	"	"	
Chloroethane	ND	4.6	"	"	"	"	"	"	
Chloroform	ND	4.6	"	"	"	"	"	"	
Chloromethane	ND	4.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Cyclohexane	ND	4.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.6	"	"	"	"	"	"	

TestAmerica King Of Prussia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-1:1.5-2' (KT10058-01) Soil Sampled: 08/31/10 08:55 Received: 09/02/10 12:00

Ethylbenzene	ND	4.6	ug/kg dry	1	10I0349	09/07/10	09/07/10 22:27	8260B	
Isopropylbenzene	ND	4.6	"	"	"	"	"	"	
Methyl Acetate	ND	4.6	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	4.6	"	"	"	"	"	"	
Methylcyclohexane	ND	4.6	"	"	"	"	"	"	
Methylene Chloride	ND	4.6	"	"	"	"	"	"	
Styrene	ND	4.6	"	"	"	"	"	"	
Tetrachloroethene	ND	4.6	"	"	"	"	"	"	
Toluene	ND	4.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Trichloroethene	ND	4.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.6	"	"	"	"	"	"	
Vinyl chloride	ND	4.6	"	"	"	"	"	"	
Xylenes, total	ND	9.2	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97 %	64-126		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	72-126		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		108 %	71-125		"	"	"	"	

B-1:13.5-14' (KT10058-02) Soil Sampled: 08/31/10 09:07 Received: 09/02/10 12:00

1,1,1-Trichloroethane	ND	5.6	ug/kg dry	1	10I0349	09/07/10	09/07/10 22:53	8260B	
1,1,2,2-Tetrachloroethane	ND	5.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.6	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	11	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.6	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1:13.5-14' (KT10058-02) Soil Sampled: 08/31/10 09:07 Received: 09/02/10 12:00									
1,4-Dichlorobenzene	ND	5.6	ug/kg dry	1	1010349	09/07/10	09/07/10 22:53	8260B	
2-Butanone (MEK)	ND	28	"	"	"	"	"	"	
2-Hexanone	ND	28	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	28	"	"	"	"	"	"	
Acetone	ND	28	"	"	"	"	"	"	
Benzene	ND	5.6	"	"	"	"	"	"	
Bromodichloromethane	ND	5.6	"	"	"	"	"	"	
Bromoform	ND	5.6	"	"	"	"	"	"	
Bromomethane	ND	5.6	"	"	"	"	"	"	
Carbon disulfide	ND	5.6	"	"	"	"	"	"	
Carbon Tetrachloride	ND	5.6	"	"	"	"	"	"	
Chlorobenzene	ND	5.6	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.6	"	"	"	"	"	"	
Chloroethane	ND	5.6	"	"	"	"	"	"	
Chloroform	ND	5.6	"	"	"	"	"	"	
Chloromethane	ND	5.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.6	"	"	"	"	"	"	
Cyclohexane	ND	5.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.6	"	"	"	"	"	"	
Ethylbenzene	ND	5.6	"	"	"	"	"	"	
Isopropylbenzene	ND	5.6	"	"	"	"	"	"	
Methyl Acetate	ND	5.6	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	5.6	"	"	"	"	"	"	
Methylcyclohexane	ND	5.6	"	"	"	"	"	"	
Methylene Chloride	ND	5.6	"	"	"	"	"	"	
Styrene	ND	5.6	"	"	"	"	"	"	
Tetrachloroethene	ND	5.6	"	"	"	"	"	"	
Toluene	ND	5.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.6	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-1:13.5-14' (KTI0058-02) Soil Sampled: 08/31/10 09:07 Received: 09/02/10 12:00

Vinyl chloride	ND	5.6	ug/kg dry	1	10I0349	09/07/10	09/07/10 22:53	8260B	
Xylenes, total	ND	11	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95 %	64-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	72-126		"	"	"	"	
Surrogate: Toluene-d8		110 %	71-125		"	"	"	"	

B-4:1.5-2' (KTI0058-03) Soil Sampled: 08/31/10 09:29 Received: 09/02/10 12:00

1,1,1-Trichloroethane	ND	4.5	ug/kg dry	1	10I0349	09/07/10	09/07/10 23:18	8260B	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	9.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
2-Butanone (MEK)	ND	22	"	"	"	"	"	"	
2-Hexanone	ND	22	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	22	"	"	"	"	"	"	
Acetone	ND	22	"	"	"	"	"	"	
Benzene	ND	4.5	"	"	"	"	"	"	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	
Bromoform	ND	4.5	"	"	"	"	"	"	
Bromomethane	ND	4.5	"	"	"	"	"	"	
Carbon disulfide	ND	4.5	"	"	"	"	"	"	
Carbon Tetrachloride	ND	4.5	"	"	"	"	"	"	
Chlorobenzene	ND	4.5	"	"	"	"	"	"	
Chlorodibromomethane	ND	4.5	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-4:1.5-2' (KT10058-03) Soil Sampled: 08/31/10 09:29 Received: 09/02/10 12:00									
Chloroethane	ND	4.5	ug/kg dry	1	1010349	09/07/10	09/07/10 23:18	8260B	
Chloroform	ND	4.5	"	"	"	"	"	"	
Chloromethane	ND	4.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
Cyclohexane	ND	4.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
Isopropylbenzene	ND	4.5	"	"	"	"	"	"	
Methyl Acetate	ND	4.5	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	4.5	"	"	"	"	"	"	
Methylcyclohexane	ND	4.5	"	"	"	"	"	"	
Methylene Chloride	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
Xylenes, total	ND	9.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97 %		64-126	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		72-126	"	"	"	"	
Surrogate: Toluene-d8		110 %		71-125	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-4:16.5-17' (KT10058-04) Soil Sampled: 08/31/10 09:48 Received: 09/02/10 12:00									
1,1,1-Trichloroethane	ND	4.9	ug/kg dry	1	1010349	09/07/10	09/07/10 23:43	8260B	
1,1,2,2-Tetrachloroethane	ND	4.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.9	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	4.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.9	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	9.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.9	"	"	"	"	"	"	
2-Butanone (MEK)	ND	25	"	"	"	"	"	"	
2-Hexanone	ND	25	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	25	"	"	"	"	"	"	
Acetone	ND	25	"	"	"	"	"	"	
Benzene	ND	4.9	"	"	"	"	"	"	
Bromodichloromethane	ND	4.9	"	"	"	"	"	"	
Bromoform	ND	4.9	"	"	"	"	"	"	
Bromomethane	ND	4.9	"	"	"	"	"	"	
Carbon disulfide	ND	4.9	"	"	"	"	"	"	
Carbon Tetrachloride	ND	4.9	"	"	"	"	"	"	
Chlorobenzene	ND	4.9	"	"	"	"	"	"	
Chlorodibromomethane	ND	4.9	"	"	"	"	"	"	
Chloroethane	ND	4.9	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
Chloromethane	ND	4.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.9	"	"	"	"	"	"	
Cyclohexane	ND	4.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.9	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-4:16.5-17' (KTI0058-04) Soil Sampled: 08/31/10 09:48 Received: 09/02/10 12:00

Ethylbenzene	ND	4.9	ug/kg dry	1	10I0349	09/07/10	09/07/10 23:43	8260B	
Isopropylbenzene	ND	4.9	"	"	"	"	"	"	
Methyl Acetate	ND	4.9	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	4.9	"	"	"	"	"	"	
Methylcyclohexane	ND	4.9	"	"	"	"	"	"	
Methylene Chloride	ND	4.9	"	"	"	"	"	"	
Styrene	ND	4.9	"	"	"	"	"	"	
Tetrachloroethene	ND	4.9	"	"	"	"	"	"	
Toluene	ND	4.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.9	"	"	"	"	"	"	
Trichloroethene	ND	4.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.9	"	"	"	"	"	"	
Vinyl chloride	ND	4.9	"	"	"	"	"	"	
Xylenes, total	ND	9.9	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %	64-126		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	72-126		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		111 %	71-125		"	"	"	"	

B-2:1.5-2' (KTI0058-05) Soil Sampled: 08/31/10 09:56 Received: 09/02/10 12:00

1,1,1-Trichloroethane	ND	4.4	ug/kg dry	1	10I0349	09/07/10	09/08/10 00:09	8260B	
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	8.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2:1.5-2' (KT10058-05) Soil Sampled: 08/31/10 09:56 Received: 09/02/10 12:00									
1,4-Dichlorobenzene	ND	4.4	ug/kg dry	1	1010349	09/07/10	09/08/10 00:09	8260B	
2-Butanone (MEK)	ND	22	"	"	"	"	"	"	
2-Hexanone	ND	22	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	22	"	"	"	"	"	"	
Acetone	ND	22	"	"	"	"	"	"	
Benzene	ND	4.4	"	"	"	"	"	"	
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	4.4	"	"	"	"	"	"	
Bromomethane	ND	4.4	"	"	"	"	"	"	
Carbon disulfide	ND	4.4	"	"	"	"	"	"	
Carbon Tetrachloride	ND	4.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.4	"	"	"	"	"	"	
Chlorodibromomethane	ND	4.4	"	"	"	"	"	"	
Chloroethane	ND	4.4	"	"	"	"	"	"	
Chloroform	ND	4.4	"	"	"	"	"	"	
Chloromethane	ND	4.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
Cyclohexane	ND	4.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
Isopropylbenzene	ND	4.4	"	"	"	"	"	"	
Methyl Acetate	ND	4.4	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	4.4	"	"	"	"	"	"	
Methylcyclohexane	ND	4.4	"	"	"	"	"	"	
Methylene Chloride	ND	4.4	"	"	"	"	"	"	
Styrene	ND	4.4	"	"	"	"	"	"	
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	
Toluene	ND	4.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
Trichloroethene	ND	4.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-2:1.5-2' (KT10058-05) Soil Sampled: 08/31/10 09:56 Received: 09/02/10 12:00

Vinyl chloride	ND	4.4	ug/kg dry	1	10I0349	09/07/10	09/08/10 00:09	8260B	
Xylenes, total	ND	8.8	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97 %	64-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	72-126		"	"	"	"	
Surrogate: Toluene-d8		107 %	71-125		"	"	"	"	

B-2:16.5-17' (KT10058-06) Soil Sampled: 08/31/10 10:22 Received: 09/02/10 12:00

1,1,1-Trichloroethane	ND	5.1	ug/kg dry	1	10I0386	09/08/10	09/08/10 15:38	8260B	
1,1,2,2-Tetrachloroethane	ND	5.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.1	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.1	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.1	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	26	"	"	"	"	"	"	
2-Hexanone	ND	26	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	26	"	"	"	"	"	"	
Acetone	ND	26	"	"	"	"	"	"	
Benzene	ND	5.1	"	"	"	"	"	"	
Bromodichloromethane	ND	5.1	"	"	"	"	"	"	
Bromoform	ND	5.1	"	"	"	"	"	"	
Bromomethane	ND	5.1	"	"	"	"	"	"	
Carbon disulfide	ND	5.1	"	"	"	"	"	"	
Carbon Tetrachloride	ND	5.1	"	"	"	"	"	"	
Chlorobenzene	ND	5.1	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.1	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2:16.5-17' (KT10058-06) Soil Sampled: 08/31/10 10:22 Received: 09/02/10 12:00									
Chloroethane	ND	5.1	ug/kg dry	1	10I0386	09/08/10	09/08/10 15:38	8260B	
Chloroform	ND	5.1	"	"	"	"	"	"	
Chloromethane	ND	5.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.1	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.1	"	"	"	"	"	"	
Cyclohexane	ND	5.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.1	"	"	"	"	"	"	
Ethylbenzene	ND	5.1	"	"	"	"	"	"	
Isopropylbenzene	ND	5.1	"	"	"	"	"	"	
Methyl Acetate	ND	5.1	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	5.1	"	"	"	"	"	"	
Methylcyclohexane	ND	5.1	"	"	"	"	"	"	
Methylene Chloride	ND	5.1	"	"	"	"	"	"	
Styrene	ND	5.1	"	"	"	"	"	"	
Tetrachloroethene	ND	5.1	"	"	"	"	"	"	
Toluene	ND	5.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.1	"	"	"	"	"	"	
Trichloroethene	ND	5.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.1	"	"	"	"	"	"	
Vinyl chloride	ND	5.1	"	"	"	"	"	"	
Xylenes, total	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		90 %	64-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	72-126		"	"	"	"	
Surrogate: Toluene-d8		104 %	71-125		"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-3:1.5-2' (KT10058-07) Soil Sampled: 08/31/10 10:53 Received: 09/02/10 12:00									
1,1,1-Trichloroethane	ND	4.4	ug/kg dry	1	1010349	09/07/10	09/08/10 00:59	8260B	
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	8.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
2-Butanone (MEK)	ND	22	"	"	"	"	"	"	
2-Hexanone	ND	22	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	22	"	"	"	"	"	"	
Acetone	ND	22	"	"	"	"	"	"	
Benzene	ND	4.4	"	"	"	"	"	"	
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	4.4	"	"	"	"	"	"	
Bromomethane	ND	4.4	"	"	"	"	"	"	
Carbon disulfide	ND	4.4	"	"	"	"	"	"	
Carbon Tetrachloride	ND	4.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.4	"	"	"	"	"	"	
Chlorodibromomethane	ND	4.4	"	"	"	"	"	"	
Chloroethane	ND	4.4	"	"	"	"	"	"	
Chloroform	ND	4.4	"	"	"	"	"	"	
Chloromethane	ND	4.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
Cyclohexane	ND	4.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-3:1.5-2' (KT10058-07) Soil Sampled: 08/31/10 10:53 Received: 09/02/10 12:00

Ethylbenzene	ND	4.4	ug/kg dry	1	10I0349	09/07/10	09/08/10 00:59	8260B	
Isopropylbenzene	ND	4.4	"	"	"	"	"	"	
Methyl Acetate	ND	4.4	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	4.4	"	"	"	"	"	"	
Methylcyclohexane	ND	4.4	"	"	"	"	"	"	
Methylene Chloride	ND	4.4	"	"	"	"	"	"	
Styrene	ND	4.4	"	"	"	"	"	"	
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	
Toluene	ND	4.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
Trichloroethene	ND	4.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	
Vinyl chloride	ND	4.4	"	"	"	"	"	"	
Xylenes, total	ND	8.7	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %	64-126		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	72-126		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		110 %	71-125		"	"	"	"	

B-3:16.5-17' (KT10058-08) Soil Sampled: 08/31/10 11:17 Received: 09/02/10 12:00

1,1,1-Trichloroethane	ND	5.6	ug/kg dry	1	10I0386	09/08/10	09/08/10 16:03	8260B	
1,1,2,2-Tetrachloroethane	ND	5.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.6	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	11	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.6	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-3:16.5-17' (KT10058-08) Soil Sampled: 08/31/10 11:17 Received: 09/02/10 12:00									
1,4-Dichlorobenzene	ND	5.6	ug/kg dry	1	10I0386	09/08/10	09/08/10 16:03	8260B	
2-Butanone (MEK)	ND	28	"	"	"	"	"	"	
2-Hexanone	ND	28	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	28	"	"	"	"	"	"	
Acetone	ND	28	"	"	"	"	"	"	
Benzene	ND	5.6	"	"	"	"	"	"	
Bromodichloromethane	ND	5.6	"	"	"	"	"	"	
Bromoform	ND	5.6	"	"	"	"	"	"	
Bromomethane	ND	5.6	"	"	"	"	"	"	
Carbon disulfide	ND	5.6	"	"	"	"	"	"	
Carbon Tetrachloride	ND	5.6	"	"	"	"	"	"	
Chlorobenzene	ND	5.6	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.6	"	"	"	"	"	"	
Chloroethane	ND	5.6	"	"	"	"	"	"	
Chloroform	ND	5.6	"	"	"	"	"	"	
Chloromethane	ND	5.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.6	"	"	"	"	"	"	
Cyclohexane	ND	5.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.6	"	"	"	"	"	"	
Ethylbenzene	ND	5.6	"	"	"	"	"	"	
Isopropylbenzene	ND	5.6	"	"	"	"	"	"	
Methyl Acetate	ND	5.6	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	5.6	"	"	"	"	"	"	
Methylcyclohexane	ND	5.6	"	"	"	"	"	"	
Methylene Chloride	ND	5.6	"	"	"	"	"	"	
Styrene	ND	5.6	"	"	"	"	"	"	
Tetrachloroethene	ND	5.6	"	"	"	"	"	"	
Toluene	ND	5.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.6	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-3:16.5-17' (KTI0058-08) Soil Sampled: 08/31/10 11:17 Received: 09/02/10 12:00

Vinyl chloride	ND	5.6	ug/kg dry	1	10I0386	09/08/10	09/08/10 16:03	8260B	
Xylenes, total	ND	11	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		94 %	64-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	72-126		"	"	"	"	
Surrogate: Toluene-d8		109 %	71-125		"	"	"	"	

MW-2 (KTI0058-09) Water Sampled: 08/31/10 11:30 Received: 09/02/10 12:00

1,1,1-Trichloroethane	ND	1.0	ug/L	1	10I0369	09/08/10	09/08/10 17:04	8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	
Acetone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (KTI0058-09) Water Sampled: 08/31/10 11:30 Received: 09/02/10 12:00									
Chlorodibromomethane	ND	1.0	ug/L	1	10I0369	09/08/10	09/08/10 17:04	8260B	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
Methyl Acetate	ND	1.0	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	1.0	"	"	"	"	"	"	
Methylcyclohexane	ND	1.0	"	"	"	"	"	"	
Methylene Chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>112 %</i>		<i>66-137</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98 %</i>		<i>73-120</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>		<i>71-126</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00									
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10I0369	09/08/10	09/08/10 17:26	8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	
Acetone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00

Dichlorodifluoromethane	ND	1.0	ug/L	1	10I0369	09/08/10	09/08/10 17:26	8260B	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
Methyl Acetate	ND	1.0	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	1.0	"	"	"	"	"	"	
Methylcyclohexane	ND	1.0	"	"	"	"	"	"	
Methylene Chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>111 %</i>	<i>66-137</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98 %</i>	<i>73-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>103 %</i>	<i>71-126</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00

1,1,1-Trichloroethane	ND	1.0	ug/L	1	10I0369	09/08/10	09/08/10 17:48	8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	2.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00									
1,2-Dichloropropane	ND	1.0	ug/L	1	10I0369	09/08/10	09/08/10 17:48	8260B	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	
Acetone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
Methyl Acetate	ND	1.0	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	1.0	"	"	"	"	"	"	
Methylcyclohexane	ND	1.0	"	"	"	"	"	"	
Methylene Chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00

Trichloroethene	ND	1.0	ug/L	1	10I0369	09/08/10	09/08/10 17:48	8260B	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	66-137		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99 %	73-120		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	71-126		"	"	"	"	

TRIP BLANK (KTI0058-12) Water Sampled: 08/26/10 00:00 Received: 09/02/10 12:00

1,1,1-Trichloroethane	ND	1.0	ug/L	1	10I0369	09/08/10	09/08/10 18:12	8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethene, Total	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	
Acetone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Volatile Organic Compounds by EPA 8260B
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TRIP BLANK (KT10058-12) Water Sampled: 08/26/10 00:00 Received: 09/02/10 12:00									
Carbon Tetrachloride	ND	1.0	ug/L	1	10I0369	09/08/10	09/08/10 18:12	8260B	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
Methyl Acetate	ND	1.0	"	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	1.0	"	"	"	"	"	"	
Methylcyclohexane	ND	1.0	"	"	"	"	"	"	
Methylene Chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		110 %		66-137	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %		73-120	"	"	"	"	
Surrogate: Toluene-d8		102 %		71-126	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-1:1.5-2' (KT10058-01) Soil **Sampled: 08/31/10 08:55** **Received: 09/02/10 12:00**

2,4,5-Trichlorophenol	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 19:11	8270C	
2,4,6-Trichlorophenol	ND	170	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	170	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	170	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	340	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	170	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	170	"	"	"	"	"	"	
2-Chloronaphthalene	ND	170	"	"	"	"	"	"	
2-Chlorophenol	ND	170	"	"	"	"	"	"	
2-Methylnaphthalene	ND	170	"	"	"	"	"	"	
2-Methylphenol	ND	170	"	"	"	"	"	"	
2-Nitroaniline	ND	340	"	"	"	"	"	"	
2-Nitrophenol	ND	170	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	170	"	"	"	"	"	"	
3-Nitroaniline	ND	340	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	340	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	170	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	170	"	"	"	"	"	"	
4-Chloroaniline	ND	170	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	170	"	"	"	"	"	"	
4-Methylphenol	ND	340	"	"	"	"	"	"	
4-Nitroaniline	ND	340	"	"	"	"	"	"	
4-Nitrophenol	ND	340	"	"	"	"	"	"	
Acenaphthene	ND	170	"	"	"	"	"	"	
Acenaphthylene	ND	170	"	"	"	"	"	"	
Acetophenone	ND	170	"	"	"	"	"	"	
Anthracene	ND	170	"	"	"	"	"	"	
Atrazine	ND	170	"	"	"	"	"	"	
Benzaldehyde	ND	170	"	"	"	"	"	"	
Benzo[a]anthracene	ND	170	"	"	"	"	"	"	
Benzo[a]pyrene	ND	170	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	170	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	170	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1:1.5-2' (KT10058-01) Soil Sampled: 08/31/10 08:55 Received: 09/02/10 12:00									
Benzo[k]fluoranthene	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 19:11	8270C	
Biphenyl	ND	170	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	170	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	170	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	170	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	170	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	170	"	"	"	"	"	"	
Caprolactam	ND	170	"	"	"	"	"	"	
Carbazole	ND	170	"	"	"	"	"	"	
Chrysene	ND	170	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	170	"	"	"	"	"	"	
Dibenzofuran	ND	170	"	"	"	"	"	"	
Diethyl phthalate	ND	170	"	"	"	"	"	"	
Dimethyl phthalate	ND	170	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	170	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	170	"	"	"	"	"	"	
Fluoranthene	ND	170	"	"	"	"	"	"	
Fluorene	ND	170	"	"	"	"	"	"	
Hexachlorobenzene	ND	170	"	"	"	"	"	"	
Hexachlorobutadiene	ND	170	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	170	"	"	"	"	"	"	
Hexachloroethane	ND	170	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	170	"	"	"	"	"	"	
Isophorone	ND	170	"	"	"	"	"	"	
Naphthalene	ND	170	"	"	"	"	"	"	
Nitrobenzene	ND	170	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	170	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	170	"	"	"	"	"	"	
Pentachlorophenol	ND	340	"	"	"	"	"	"	
Phenanthrene	ND	170	"	"	"	"	"	"	
Phenol	ND	170	"	"	"	"	"	"	
Pyrene	ND	170	"	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		91 %		39-146	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-1:1.5-2' (KT10058-01) Soil Sampled: 08/31/10 08:55 Received: 09/02/10 12:00

Surrogate: 2-Fluorobiphenyl		75 %		37-120	1010269	09/07/10	09/08/10 19:11	8270C	
Surrogate: 2-Fluorophenol		76 %		18-120	"	"	"	"	
Surrogate: Nitrobenzene-d5		74 %		34-132	"	"	"	"	
Surrogate: Phenol-d5		81 %		11-120	"	"	"	"	
Surrogate: p-Terphenyl-d14		82 %		58-147	"	"	"	"	

B-1:13.5-14' (KT10058-02) Soil Sampled: 08/31/10 09:07 Received: 09/02/10 12:00

2,4,5-Trichlorophenol	ND	190	ug/kg dry	1	1010269	09/07/10	09/08/10 19:35	8270C	
2,4,6-Trichlorophenol	ND	190	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	190	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	190	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	370	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	190	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	190	"	"	"	"	"	"	
2-Chloronaphthalene	ND	190	"	"	"	"	"	"	
2-Chlorophenol	ND	190	"	"	"	"	"	"	
2-Methylnaphthalene	ND	190	"	"	"	"	"	"	
2-Methylphenol	ND	190	"	"	"	"	"	"	
2-Nitroaniline	ND	370	"	"	"	"	"	"	
2-Nitrophenol	ND	190	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	190	"	"	"	"	"	"	
3-Nitroaniline	ND	370	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	370	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	190	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	190	"	"	"	"	"	"	
4-Chloroaniline	ND	190	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	190	"	"	"	"	"	"	
4-Methylphenol	ND	370	"	"	"	"	"	"	
4-Nitroaniline	ND	370	"	"	"	"	"	"	
4-Nitrophenol	ND	370	"	"	"	"	"	"	
Acenaphthene	ND	190	"	"	"	"	"	"	
Acenaphthylene	ND	190	"	"	"	"	"	"	
Acetophenone	ND	190	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1:13.5-14' (KT10058-02) Soil Sampled: 08/31/10 09:07 Received: 09/02/10 12:00									
Anthracene	ND	190	ug/kg dry	1	1010269	09/07/10	09/08/10 19:35	8270C	
Atrazine	ND	190	"	"	"	"	"	"	
Benzaldehyde	ND	190	"	"	"	"	"	"	
Benzo[a]anthracene	ND	190	"	"	"	"	"	"	
Benzo[a]pyrene	ND	190	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	190	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	190	"	"	"	"	"	"	
Benzo[k]fluoranthene	ND	190	"	"	"	"	"	"	
Biphenyl	ND	190	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	190	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	190	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	190	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	190	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	190	"	"	"	"	"	"	
Caprolactam	ND	190	"	"	"	"	"	"	
Carbazole	ND	190	"	"	"	"	"	"	
Chrysene	ND	190	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	190	"	"	"	"	"	"	
Dibenzofuran	ND	190	"	"	"	"	"	"	
Diethyl phthalate	ND	190	"	"	"	"	"	"	
Dimethyl phthalate	ND	190	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	190	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	190	"	"	"	"	"	"	
Fluoranthene	ND	190	"	"	"	"	"	"	
Fluorene	ND	190	"	"	"	"	"	"	
Hexachlorobenzene	ND	190	"	"	"	"	"	"	
Hexachlorobutadiene	ND	190	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	190	"	"	"	"	"	"	
Hexachloroethane	ND	190	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	190	"	"	"	"	"	"	
Isophorone	ND	190	"	"	"	"	"	"	
Naphthalene	ND	190	"	"	"	"	"	"	
Nitrobenzene	ND	190	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1:13.5-14' (KT10058-02) Soil Sampled: 08/31/10 09:07 Received: 09/02/10 12:00									
N-Nitrosodi-n-propylamine	ND	190	ug/kg dry	1	1010269	09/07/10	09/08/10 19:35	8270C	
N-Nitrosodiphenylamine	ND	190	"	"	"	"	"	"	
Pentachlorophenol	ND	370	"	"	"	"	"	"	
Phenanthrene	ND	190	"	"	"	"	"	"	
Phenol	ND	190	"	"	"	"	"	"	
Pyrene	ND	190	"	"	"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		93 %	39-146		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		84 %	37-120		"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		76 %	18-120		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		79 %	34-132		"	"	"	"	
<i>Surrogate: Phenol-d5</i>		81 %	11-120		"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>		86 %	58-147		"	"	"	"	

B-4:1.5-2' (KT10058-03) Soil Sampled: 08/31/10 09:29 Received: 09/02/10 12:00									
2,4,5-Trichlorophenol	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 19:59	8270C	
2,4,6-Trichlorophenol	ND	170	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	170	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	170	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	330	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	170	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	170	"	"	"	"	"	"	
2-Chloronaphthalene	ND	170	"	"	"	"	"	"	
2-Chlorophenol	ND	170	"	"	"	"	"	"	
2-Methylnaphthalene	ND	170	"	"	"	"	"	"	
2-Methylphenol	ND	170	"	"	"	"	"	"	
2-Nitroaniline	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	170	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	170	"	"	"	"	"	"	
3-Nitroaniline	ND	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	170	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	170	"	"	"	"	"	"	
4-Chloroaniline	ND	170	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-4:1.5-2' (KT10058-03) Soil Sampled: 08/31/10 09:29 Received: 09/02/10 12:00									
4-Chlorophenyl phenyl ether	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 19:59	8270C	
4-Methylphenol	ND	330	"	"	"	"	"	"	
4-Nitroaniline	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	330	"	"	"	"	"	"	
Acenaphthene	ND	170	"	"	"	"	"	"	
Acenaphthylene	ND	170	"	"	"	"	"	"	
Acetophenone	ND	170	"	"	"	"	"	"	
Anthracene	ND	170	"	"	"	"	"	"	
Atrazine	ND	170	"	"	"	"	"	"	
Benzaldehyde	ND	170	"	"	"	"	"	"	
Benzo[a]anthracene	ND	170	"	"	"	"	"	"	
Benzo[a]pyrene	ND	170	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	170	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	170	"	"	"	"	"	"	
Benzo[k]fluoranthene	ND	170	"	"	"	"	"	"	
Biphenyl	ND	170	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	170	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	170	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	170	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	170	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	170	"	"	"	"	"	"	
Caprolactam	ND	170	"	"	"	"	"	"	
Carbazole	ND	170	"	"	"	"	"	"	
Chrysene	ND	170	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	170	"	"	"	"	"	"	
Dibenzofuran	ND	170	"	"	"	"	"	"	
Diethyl phthalate	ND	170	"	"	"	"	"	"	
Dimethyl phthalate	ND	170	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	170	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	170	"	"	"	"	"	"	
Fluoranthene	ND	170	"	"	"	"	"	"	
Fluorene	ND	170	"	"	"	"	"	"	
Hexachlorobenzene	ND	170	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-4:1.5-2' (KT10058-03) Soil Sampled: 08/31/10 09:29 Received: 09/02/10 12:00

Hexachlorobutadiene	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 19:59	8270C	
Hexachlorocyclopentadiene	ND	170	"	"	"	"	"	"	
Hexachloroethane	ND	170	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	170	"	"	"	"	"	"	
Isophorone	ND	170	"	"	"	"	"	"	
Naphthalene	ND	170	"	"	"	"	"	"	
Nitrobenzene	ND	170	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	170	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	170	"	"	"	"	"	"	
Pentachlorophenol	ND	330	"	"	"	"	"	"	
Phenanthrene	ND	170	"	"	"	"	"	"	
Phenol	ND	170	"	"	"	"	"	"	
Pyrene	ND	170	"	"	"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		81 %	39-146		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		81 %	37-120		"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		81 %	18-120		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		80 %	34-132		"	"	"	"	
<i>Surrogate: Phenol-d5</i>		79 %	11-120		"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>		77 %	58-147		"	"	"	"	

B-4:16.5-17' (KT10058-04) Soil Sampled: 08/31/10 09:48 Received: 09/02/10 12:00

2,4,5-Trichlorophenol	ND	180	ug/kg dry	1	1010269	09/07/10	09/08/10 20:22	8270C	
2,4,6-Trichlorophenol	ND	180	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	180	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	180	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	350	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	180	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	180	"	"	"	"	"	"	
2-Chloronaphthalene	ND	180	"	"	"	"	"	"	
2-Chlorophenol	ND	180	"	"	"	"	"	"	
2-Methylnaphthalene	ND	180	"	"	"	"	"	"	
2-Methylphenol	ND	180	"	"	"	"	"	"	
2-Nitroaniline	ND	350	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-4:16.5-17' (KT10058-04) Soil Sampled: 08/31/10 09:48 Received: 09/02/10 12:00									
2-Nitrophenol	ND	180	ug/kg dry	1	1010269	09/07/10	09/08/10 20:22	8270C	
3,3'-Dichlorobenzidine	ND	180	"	"	"	"	"	"	
3-Nitroaniline	ND	350	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	350	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	180	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	180	"	"	"	"	"	"	
4-Chloroaniline	ND	180	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	180	"	"	"	"	"	"	
4-Methylphenol	ND	350	"	"	"	"	"	"	
4-Nitroaniline	ND	350	"	"	"	"	"	"	
4-Nitrophenol	ND	350	"	"	"	"	"	"	
Acenaphthene	ND	180	"	"	"	"	"	"	
Acenaphthylene	ND	180	"	"	"	"	"	"	
Acetophenone	ND	180	"	"	"	"	"	"	
Anthracene	ND	180	"	"	"	"	"	"	
Atrazine	ND	180	"	"	"	"	"	"	
Benzaldehyde	ND	180	"	"	"	"	"	"	
Benzo[a]anthracene	ND	180	"	"	"	"	"	"	
Benzo[a]pyrene	ND	180	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	180	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	180	"	"	"	"	"	"	
Benzo[k]fluoranthene	ND	180	"	"	"	"	"	"	
Biphenyl	ND	180	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	180	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	180	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	180	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	180	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	180	"	"	"	"	"	"	
Caprolactam	ND	180	"	"	"	"	"	"	
Carbazole	ND	180	"	"	"	"	"	"	
Chrysene	ND	180	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	180	"	"	"	"	"	"	
Dibenzofuran	ND	180	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-4:16.5-17' (KT10058-04) Soil **Sampled: 08/31/10 09:48** **Received: 09/02/10 12:00**

Diethyl phthalate	ND	180	ug/kg dry	1	1010269	09/07/10	09/08/10 20:22	8270C	
Dimethyl phthalate	ND	180	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	180	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	180	"	"	"	"	"	"	
Fluoranthene	ND	180	"	"	"	"	"	"	
Fluorene	ND	180	"	"	"	"	"	"	
Hexachlorobenzene	ND	180	"	"	"	"	"	"	
Hexachlorobutadiene	ND	180	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	180	"	"	"	"	"	"	
Hexachloroethane	ND	180	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	180	"	"	"	"	"	"	
Isophorone	ND	180	"	"	"	"	"	"	
Naphthalene	ND	180	"	"	"	"	"	"	
Nitrobenzene	ND	180	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	180	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	180	"	"	"	"	"	"	
Pentachlorophenol	ND	350	"	"	"	"	"	"	
Phenanthrene	ND	180	"	"	"	"	"	"	
Phenol	ND	180	"	"	"	"	"	"	
Pyrene	ND	180	"	"	"	"	"	"	

Surrogate: 2,4,6-Tribromophenol	92 %	39-146	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	87 %	37-120	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol	79 %	18-120	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	81 %	34-132	"	"	"	"	"	"	
Surrogate: Phenol-d5	81 %	11-120	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	86 %	58-147	"	"	"	"	"	"	



Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2:1.5-2' (KT10058-05) Soil Sampled: 08/31/10 09:56 Received: 09/02/10 12:00									
2,4,5-Trichlorophenol	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 20:46	8270C	
2,4,6-Trichlorophenol	ND	170	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	170	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	170	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	340	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	170	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	170	"	"	"	"	"	"	
2-Chloronaphthalene	ND	170	"	"	"	"	"	"	
2-Chlorophenol	ND	170	"	"	"	"	"	"	
2-Methylnaphthalene	ND	170	"	"	"	"	"	"	
2-Methylphenol	ND	170	"	"	"	"	"	"	
2-Nitroaniline	ND	340	"	"	"	"	"	"	
2-Nitrophenol	ND	170	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	170	"	"	"	"	"	"	
3-Nitroaniline	ND	340	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	340	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	170	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	170	"	"	"	"	"	"	
4-Chloroaniline	ND	170	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	170	"	"	"	"	"	"	
4-Methylphenol	ND	340	"	"	"	"	"	"	
4-Nitroaniline	ND	340	"	"	"	"	"	"	
4-Nitrophenol	ND	340	"	"	"	"	"	"	
Acenaphthene	ND	170	"	"	"	"	"	"	
Acenaphthylene	ND	170	"	"	"	"	"	"	
Acetophenone	ND	170	"	"	"	"	"	"	
Anthracene	ND	170	"	"	"	"	"	"	
Atrazine	ND	170	"	"	"	"	"	"	
Benzaldehyde	ND	170	"	"	"	"	"	"	
Benzo[a]anthracene	ND	170	"	"	"	"	"	"	
Benzo[a]pyrene	ND	170	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	170	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	170	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2:1.5-2' (KT10058-05) Soil Sampled: 08/31/10 09:56 Received: 09/02/10 12:00									
Benzo[k]fluoranthene	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 20:46	8270C	
Biphenyl	ND	170	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	170	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	170	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	170	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	170	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	170	"	"	"	"	"	"	
Caprolactam	ND	170	"	"	"	"	"	"	
Carbazole	ND	170	"	"	"	"	"	"	
Chrysene	ND	170	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	170	"	"	"	"	"	"	
Dibenzofuran	ND	170	"	"	"	"	"	"	
Diethyl phthalate	ND	170	"	"	"	"	"	"	
Dimethyl phthalate	ND	170	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	170	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	170	"	"	"	"	"	"	
Fluoranthene	ND	170	"	"	"	"	"	"	
Fluorene	ND	170	"	"	"	"	"	"	
Hexachlorobenzene	ND	170	"	"	"	"	"	"	
Hexachlorobutadiene	ND	170	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	170	"	"	"	"	"	"	
Hexachloroethane	ND	170	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	170	"	"	"	"	"	"	
Isophorone	ND	170	"	"	"	"	"	"	
Naphthalene	ND	170	"	"	"	"	"	"	
Nitrobenzene	ND	170	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	170	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	170	"	"	"	"	"	"	
Pentachlorophenol	ND	340	"	"	"	"	"	"	
Phenanthrene	ND	170	"	"	"	"	"	"	
Phenol	ND	170	"	"	"	"	"	"	
Pyrene	ND	170	"	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		89 %		39-146	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-2:1.5-2' (KT10058-05) Soil Sampled: 08/31/10 09:56 Received: 09/02/10 12:00

Surrogate: 2-Fluorobiphenyl		63 %		37-120	1010269	09/07/10	09/08/10 20:46	8270C	
Surrogate: 2-Fluorophenol		56 %		18-120	"	"	"	"	
Surrogate: Nitrobenzene-d5		59 %		34-132	"	"	"	"	
Surrogate: Phenol-d5		61 %		11-120	"	"	"	"	
Surrogate: p-Terphenyl-d14		84 %		58-147	"	"	"	"	

B-2:16.5-17' (KT10058-06) Soil Sampled: 08/31/10 10:22 Received: 09/02/10 12:00

2,4,5-Trichlorophenol	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 21:10	8270C	
2,4,6-Trichlorophenol	ND	170	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	170	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	170	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	330	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	170	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	170	"	"	"	"	"	"	
2-Chloronaphthalene	ND	170	"	"	"	"	"	"	
2-Chlorophenol	ND	170	"	"	"	"	"	"	
2-Methylnaphthalene	ND	170	"	"	"	"	"	"	
2-Methylphenol	ND	170	"	"	"	"	"	"	
2-Nitroaniline	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	170	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	170	"	"	"	"	"	"	
3-Nitroaniline	ND	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	170	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	170	"	"	"	"	"	"	
4-Chloroaniline	ND	170	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	170	"	"	"	"	"	"	
4-Methylphenol	ND	330	"	"	"	"	"	"	
4-Nitroaniline	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	330	"	"	"	"	"	"	
Acenaphthene	ND	170	"	"	"	"	"	"	
Acenaphthylene	ND	170	"	"	"	"	"	"	
Acetophenone	ND	170	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2:16.5-17' (KT10058-06) Soil Sampled: 08/31/10 10:22 Received: 09/02/10 12:00									
Anthracene	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 21:10	8270C	
Atrazine	ND	170	"	"	"	"	"	"	
Benzaldehyde	ND	170	"	"	"	"	"	"	
Benzo[a]anthracene	ND	170	"	"	"	"	"	"	
Benzo[a]pyrene	ND	170	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	170	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	170	"	"	"	"	"	"	
Benzo[k]fluoranthene	ND	170	"	"	"	"	"	"	
Biphenyl	ND	170	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	170	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	170	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	170	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	170	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	170	"	"	"	"	"	"	
Caprolactam	ND	170	"	"	"	"	"	"	
Carbazole	ND	170	"	"	"	"	"	"	
Chrysene	ND	170	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	170	"	"	"	"	"	"	
Dibenzofuran	ND	170	"	"	"	"	"	"	
Diethyl phthalate	ND	170	"	"	"	"	"	"	
Dimethyl phthalate	ND	170	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	170	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	170	"	"	"	"	"	"	
Fluoranthene	ND	170	"	"	"	"	"	"	
Fluorene	ND	170	"	"	"	"	"	"	
Hexachlorobenzene	ND	170	"	"	"	"	"	"	
Hexachlorobutadiene	ND	170	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	170	"	"	"	"	"	"	
Hexachloroethane	ND	170	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	170	"	"	"	"	"	"	
Isophorone	ND	170	"	"	"	"	"	"	
Naphthalene	ND	170	"	"	"	"	"	"	
Nitrobenzene	ND	170	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2:16.5-17' (KT10058-06) Soil Sampled: 08/31/10 10:22 Received: 09/02/10 12:00									
N-Nitrosodi-n-propylamine	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 21:10	8270C	
N-Nitrosodiphenylamine	ND	170	"	"	"	"	"	"	
Pentachlorophenol	ND	330	"	"	"	"	"	"	
Phenanthrene	ND	170	"	"	"	"	"	"	
Phenol	ND	170	"	"	"	"	"	"	
Pyrene	ND	170	"	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		93 %	39-146		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		85 %	37-120		"	"	"	"	
Surrogate: 2-Fluorophenol		76 %	18-120		"	"	"	"	
Surrogate: Nitrobenzene-d5		83 %	34-132		"	"	"	"	
Surrogate: Phenol-d5		78 %	11-120		"	"	"	"	
Surrogate: p-Terphenyl-d14		87 %	58-147		"	"	"	"	

B-3:1.5-2' (KT10058-07) Soil Sampled: 08/31/10 10:53 Received: 09/02/10 12:00									
2,4,5-Trichlorophenol	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 21:34	8270C	
2,4,6-Trichlorophenol	ND	170	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	170	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	170	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	340	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	170	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	170	"	"	"	"	"	"	
2-Chloronaphthalene	ND	170	"	"	"	"	"	"	
2-Chlorophenol	ND	170	"	"	"	"	"	"	
2-Methylnaphthalene	ND	170	"	"	"	"	"	"	
2-Methylphenol	ND	170	"	"	"	"	"	"	
2-Nitroaniline	ND	340	"	"	"	"	"	"	
2-Nitrophenol	ND	170	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	170	"	"	"	"	"	"	
3-Nitroaniline	ND	340	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	340	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	170	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	170	"	"	"	"	"	"	
4-Chloroaniline	ND	170	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-3:1.5-2' (KT10058-07) Soil Sampled: 08/31/10 10:53 Received: 09/02/10 12:00									
4-Chlorophenyl phenyl ether	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 21:34	8270C	
4-Methylphenol	ND	340	"	"	"	"	"	"	
4-Nitroaniline	ND	340	"	"	"	"	"	"	
4-Nitrophenol	ND	340	"	"	"	"	"	"	
Acenaphthene	ND	170	"	"	"	"	"	"	
Acenaphthylene	ND	170	"	"	"	"	"	"	
Acetophenone	ND	170	"	"	"	"	"	"	
Anthracene	ND	170	"	"	"	"	"	"	
Atrazine	ND	170	"	"	"	"	"	"	
Benzaldehyde	ND	170	"	"	"	"	"	"	
Benzo[a]anthracene	ND	170	"	"	"	"	"	"	
Benzo[a]pyrene	ND	170	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	170	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	170	"	"	"	"	"	"	
Benzo[k]fluoranthene	ND	170	"	"	"	"	"	"	
Biphenyl	ND	170	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	170	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	170	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	170	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	170	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	170	"	"	"	"	"	"	
Caprolactam	ND	170	"	"	"	"	"	"	
Carbazole	ND	170	"	"	"	"	"	"	
Chrysene	ND	170	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	170	"	"	"	"	"	"	
Dibenzofuran	ND	170	"	"	"	"	"	"	
Diethyl phthalate	ND	170	"	"	"	"	"	"	
Dimethyl phthalate	ND	170	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	170	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	170	"	"	"	"	"	"	
Fluoranthene	ND	170	"	"	"	"	"	"	
Fluorene	ND	170	"	"	"	"	"	"	
Hexachlorobenzene	ND	170	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-3:1.5-2' (KT10058-07) Soil Sampled: 08/31/10 10:53 Received: 09/02/10 12:00

Hexachlorobutadiene	ND	170	ug/kg dry	1	1010269	09/07/10	09/08/10 21:34	8270C	
Hexachlorocyclopentadiene	ND	170	"	"	"	"	"	"	
Hexachloroethane	ND	170	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	170	"	"	"	"	"	"	
Isophorone	ND	170	"	"	"	"	"	"	
Naphthalene	ND	170	"	"	"	"	"	"	
Nitrobenzene	ND	170	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	170	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	170	"	"	"	"	"	"	
Pentachlorophenol	ND	340	"	"	"	"	"	"	
Phenanthrene	ND	170	"	"	"	"	"	"	
Phenol	ND	170	"	"	"	"	"	"	
Pyrene	ND	170	"	"	"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		92 %	39-146		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		81 %	37-120		"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		81 %	18-120		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		82 %	34-132		"	"	"	"	
<i>Surrogate: Phenol-d5</i>		80 %	11-120		"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>		85 %	58-147		"	"	"	"	

B-3:16.5-17' (KT10058-08) Soil Sampled: 08/31/10 11:17 Received: 09/02/10 12:00

2,4,5-Trichlorophenol	ND	200	ug/kg dry	1	1010269	09/07/10	09/08/10 21:58	8270C	
2,4,6-Trichlorophenol	ND	200	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	200	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	200	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	400	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	200	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	200	"	"	"	"	"	"	
2-Chloronaphthalene	ND	200	"	"	"	"	"	"	
2-Chlorophenol	ND	200	"	"	"	"	"	"	
2-Methylnaphthalene	ND	200	"	"	"	"	"	"	
2-Methylphenol	ND	200	"	"	"	"	"	"	
2-Nitroaniline	ND	400	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-3:16.5-17' (KT10058-08) Soil Sampled: 08/31/10 11:17 Received: 09/02/10 12:00									
2-Nitrophenol	ND	200	ug/kg dry	1	1010269	09/07/10	09/08/10 21:58	8270C	
3,3'-Dichlorobenzidine	ND	200	"	"	"	"	"	"	
3-Nitroaniline	ND	400	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	400	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	200	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	200	"	"	"	"	"	"	
4-Chloroaniline	ND	200	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	200	"	"	"	"	"	"	
4-Methylphenol	ND	400	"	"	"	"	"	"	
4-Nitroaniline	ND	400	"	"	"	"	"	"	
4-Nitrophenol	ND	400	"	"	"	"	"	"	
Acenaphthene	ND	200	"	"	"	"	"	"	
Acenaphthylene	ND	200	"	"	"	"	"	"	
Acetophenone	ND	200	"	"	"	"	"	"	
Anthracene	ND	200	"	"	"	"	"	"	
Atrazine	ND	200	"	"	"	"	"	"	
Benzaldehyde	ND	200	"	"	"	"	"	"	
Benzo[a]anthracene	ND	200	"	"	"	"	"	"	
Benzo[a]pyrene	ND	200	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	200	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	200	"	"	"	"	"	"	
Benzo[k]fluoranthene	ND	200	"	"	"	"	"	"	
Biphenyl	ND	200	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	200	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	200	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	200	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	200	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	200	"	"	"	"	"	"	
Caprolactam	ND	200	"	"	"	"	"	"	
Carbazole	ND	200	"	"	"	"	"	"	
Chrysene	ND	200	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	200	"	"	"	"	"	"	
Dibenzofuran	ND	200	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-3:16.5-17' (KT10058-08) Soil **Sampled: 08/31/10 11:17** **Received: 09/02/10 12:00**

Diethyl phthalate	ND	200	ug/kg dry	1	1010269	09/07/10	09/08/10 21:58	8270C	
Dimethyl phthalate	ND	200	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	200	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	200	"	"	"	"	"	"	
Fluoranthene	ND	200	"	"	"	"	"	"	
Fluorene	ND	200	"	"	"	"	"	"	
Hexachlorobenzene	ND	200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	200	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	200	"	"	"	"	"	"	
Hexachloroethane	ND	200	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	200	"	"	"	"	"	"	
Isophorone	ND	200	"	"	"	"	"	"	
Naphthalene	ND	200	"	"	"	"	"	"	
Nitrobenzene	ND	200	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	200	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	200	"	"	"	"	"	"	
Pentachlorophenol	ND	400	"	"	"	"	"	"	
Phenanthrene	ND	200	"	"	"	"	"	"	
Phenol	ND	200	"	"	"	"	"	"	
Pyrene	ND	200	"	"	"	"	"	"	

Surrogate: 2,4,6-Tribromophenol	98 %	39-146	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	88 %	37-120	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol	80 %	18-120	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	85 %	34-132	"	"	"	"	"	"	
Surrogate: Phenol-d5	83 %	11-120	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	93 %	58-147	"	"	"	"	"	"	



Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (KTI0058-09) Water Sampled: 08/31/10 11:30 Received: 09/02/10 12:00									
2,4,5-Trichlorophenol	ND	5.0	ug/L	1	10I0314	09/07/10	09/08/10 13:48	8270C	
2,4,6-Trichlorophenol	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	5.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.0	"	"	"	"	"	"	
2-Methylphenol	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10	"	"	"	"	"	"	
2-Nitrophenol	ND	5.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.0	"	"	"	"	"	"	
3-Nitroaniline	ND	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
4-Chloroaniline	ND	5.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
4-Methylphenol	ND	10	"	"	"	"	"	"	
4-Nitroaniline	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	
Acenaphthene	ND	5.0	"	"	"	"	"	"	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Acetophenone	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Atrazine	ND	5.0	"	"	"	"	"	"	
Benzaldehyde	ND	5.0	"	"	"	"	"	"	
Benzo[a]anthracene	ND	5.0	"	"	"	"	"	"	
Benzo[a]pyrene	ND	5.0	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	5.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (KTI0058-09) Water Sampled: 08/31/10 11:30 Received: 09/02/10 12:00									
Benzo[k]fluoranthene	ND	5.0	ug/L	1	10I0314	09/07/10	09/08/10 13:48	8270C	
Biphenyl	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.0	"	"	"	"	"	"	
Caprolactam	ND	5.0	"	"	"	"	"	"	
Carbazole	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	5.0	"	"	"	"	"	"	
Dibenzofuran	ND	10	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	5.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	5.0	"	"	"	"	"	"	
Isophorone	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		96 %		52-132	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (KTI0058-09) Water Sampled: 08/31/10 11:30 Received: 09/02/10 12:00									
Surrogate: 2-Fluorobiphenyl		69 %		48-120	10I0314	09/07/10	09/08/10 13:48	8270C	
Surrogate: 2-Fluorophenol		41 %		20-120	"	"	"	"	
Surrogate: Nitrobenzene-d5		70 %		46-120	"	"	"	"	
Surrogate: Phenol-d5		26 %		16-120	"	"	"	"	
Surrogate: p-Terphenyl-d14		70 %		24-136	"	"	"	"	
MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00									
2,4,5-Trichlorophenol	ND	5.0	ug/L	1	10I0314	09/07/10	09/08/10 14:11	8270C	
2,4,6-Trichlorophenol	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	5.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.0	"	"	"	"	"	"	
2-Methylphenol	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10	"	"	"	"	"	"	
2-Nitrophenol	ND	5.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.0	"	"	"	"	"	"	
3-Nitroaniline	ND	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
4-Chloroaniline	ND	5.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
4-Methylphenol	ND	10	"	"	"	"	"	"	
4-Nitroaniline	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	
Acenaphthene	ND	5.0	"	"	"	"	"	"	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Acetophenone	ND	5.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00									
Anthracene	ND	5.0	ug/L	1	10I0314	09/07/10	09/08/10 14:11	8270C	
Atrazine	ND	5.0	"	"	"	"	"	"	
Benzaldehyde	ND	5.0	"	"	"	"	"	"	
Benzo[a]anthracene	ND	5.0	"	"	"	"	"	"	
Benzo[a]pyrene	ND	5.0	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	5.0	"	"	"	"	"	"	
Benzo[k]fluoranthene	ND	5.0	"	"	"	"	"	"	
Biphenyl	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.0	"	"	"	"	"	"	
Caprolactam	ND	5.0	"	"	"	"	"	"	
Carbazole	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	5.0	"	"	"	"	"	"	
Dibenzofuran	ND	10	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	5.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	5.0	"	"	"	"	"	"	
Isophorone	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00									
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	10I0314	09/07/10	09/08/10 14:11	8270C	
N-Nitrosodiphenylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		76 %	52-132		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		56 %	48-120		"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		35 %	20-120		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		55 %	46-120		"	"	"	"	
<i>Surrogate: Phenol-d5</i>		24 %	16-120		"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>		48 %	24-136		"	"	"	"	

MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00

2,4,5-Trichlorophenol	ND	5.0	ug/L	1	10I0314	09/07/10	09/08/10 14:36	8270C	
2,4,6-Trichlorophenol	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	5.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.0	"	"	"	"	"	"	
2-Methylphenol	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10	"	"	"	"	"	"	
2-Nitrophenol	ND	5.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.0	"	"	"	"	"	"	
3-Nitroaniline	ND	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
4-Chloroaniline	ND	5.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00									
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	1	10I0314	09/07/10	09/08/10 14:36	8270C	
4-Methylphenol	ND	10	"	"	"	"	"	"	
4-Nitroaniline	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	
Acenaphthene	ND	5.0	"	"	"	"	"	"	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Acetophenone	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Atrazine	ND	5.0	"	"	"	"	"	"	
Benzaldehyde	ND	5.0	"	"	"	"	"	"	
Benzo[a]anthracene	ND	5.0	"	"	"	"	"	"	
Benzo[a]pyrene	ND	5.0	"	"	"	"	"	"	
Benzo[b]fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo[g,h,i]perylene	ND	5.0	"	"	"	"	"	"	
Benzo[k]fluoranthene	ND	5.0	"	"	"	"	"	"	
Biphenyl	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
2,2'-Oxybis(1-Chloropropane)	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.0	"	"	"	"	"	"	
Caprolactam	ND	5.0	"	"	"	"	"	"	
Carbazole	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz[a,h]anthracene	ND	5.0	"	"	"	"	"	"	
Dibenzofuran	ND	10	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	5.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Semivolatile Organics by GC/MS

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00									
Hexachlorobutadiene	ND	5.0	ug/L	1	10I0314	09/07/10	09/08/10 14:36	8270C	
Hexachlorocyclopentadiene	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno[1,2,3-cd]pyrene	ND	5.0	"	"	"	"	"	"	
Isophorone	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		93 %		52-132	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		72 %		48-120	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		41 %		20-120	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		69 %		46-120	"	"	"	"	
<i>Surrogate: Phenol-d5</i>		28 %		16-120	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>		53 %		24-136	"	"	"	"	



Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1:1.5-2' (KT10058-01) Soil Sampled: 08/31/10 08:55 Received: 09/02/10 12:00									
4,4'-DDD	ND	1.8	ug/kg dry	1	1010264	09/07/10	09/08/10 16:50	8081A	
4,4'-DDE	ND	1.8	"	"	"	"	"	"	
4,4'-DDT	ND	1.8	"	"	"	"	"	"	
Aldrin	ND	1.8	"	"	"	"	"	"	
alpha-BHC	ND	1.8	"	"	"	"	"	"	
alpha-Chlordane	ND	1.8	"	"	"	"	"	"	
beta-BHC	ND	1.8	"	"	"	"	"	"	
Chlordane	ND	18	"	"	"	"	"	"	
delta-BHC	ND	1.8	"	"	"	"	"	"	
Dieldrin	ND	1.8	"	"	"	"	"	"	
Endosulfan I	ND	1.8	"	"	"	"	"	"	
Endosulfan II	ND	1.8	"	"	"	"	"	"	
Endosulfan sulfate	ND	1.8	"	"	"	"	"	"	
Endrin	ND	1.8	"	"	"	"	"	"	
Endrin aldehyde	ND	1.8	"	"	"	"	"	"	
Endrin ketone	ND	1.8	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.8	"	"	"	"	"	"	
gamma-Chlordane	ND	1.8	"	"	"	"	"	"	
Heptachlor	ND	1.8	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.8	"	"	"	"	"	"	
Methoxychlor	ND	1.8	"	"	"	"	"	"	
Toxaphene	ND	18	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		104 %		42-146	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		76 %		37-136	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1:13.5-14' (KT10058-02) Soil Sampled: 08/31/10 09:07 Received: 09/02/10 12:00									
4,4'-DDD	ND	1.9	ug/kg dry	1	1010264	09/07/10	09/08/10 17:26	8081A	
4,4'-DDE	ND	1.9	"	"	"	"	"	"	
4,4'-DDT	ND	1.9	"	"	"	"	"	"	
Aldrin	ND	1.9	"	"	"	"	"	"	
alpha-BHC	ND	1.9	"	"	"	"	"	"	
alpha-Chlordane	ND	1.9	"	"	"	"	"	"	
beta-BHC	ND	1.9	"	"	"	"	"	"	
Chlordane	ND	1.9	"	"	"	"	"	"	
delta-BHC	ND	1.9	"	"	"	"	"	"	
Dieldrin	ND	1.9	"	"	"	"	"	"	
Endosulfan I	ND	1.9	"	"	"	"	"	"	
Endosulfan II	ND	1.9	"	"	"	"	"	"	
Endosulfan sulfate	ND	1.9	"	"	"	"	"	"	
Endrin	ND	1.9	"	"	"	"	"	"	
Endrin aldehyde	ND	1.9	"	"	"	"	"	"	
Endrin ketone	ND	1.9	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.9	"	"	"	"	"	"	
gamma-Chlordane	ND	1.9	"	"	"	"	"	"	
Heptachlor	ND	1.9	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.9	"	"	"	"	"	"	
Methoxychlor	ND	1.9	"	"	"	"	"	"	
Toxaphene	ND	1.9	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		96 %		42-146	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		72 %		37-136	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-4:1.5-2' (KT10058-03) Soil **Sampled: 08/31/10 09:29** **Received: 09/02/10 12:00**

4,4'-DDD	ND	1.7	ug/kg dry	1	1010264	09/07/10	09/08/10 18:02	8081A	
4,4'-DDE	ND	1.7	"	"	"	"	"	"	
4,4'-DDT	ND	1.7	"	"	"	"	"	"	
Aldrin	ND	1.7	"	"	"	"	"	"	
alpha-BHC	ND	1.7	"	"	"	"	"	"	
alpha-Chlordane	ND	1.7	"	"	"	"	"	"	
beta-BHC	ND	1.7	"	"	"	"	"	"	
Chlordane	ND	17	"	"	"	"	"	"	
delta-BHC	ND	1.7	"	"	"	"	"	"	
Dieldrin	ND	1.7	"	"	"	"	"	"	
Endosulfan I	ND	1.7	"	"	"	"	"	"	
Endosulfan II	ND	1.7	"	"	"	"	"	"	
Endosulfan sulfate	ND	1.7	"	"	"	"	"	"	
Endrin	ND	1.7	"	"	"	"	"	"	
Endrin aldehyde	ND	1.7	"	"	"	"	"	"	
Endrin ketone	ND	1.7	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.7	"	"	"	"	"	"	
gamma-Chlordane	ND	1.7	"	"	"	"	"	"	
Heptachlor	ND	1.7	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.7	"	"	"	"	"	"	
Methoxychlor	ND	1.7	"	"	"	"	"	"	
Toxaphene	ND	17	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		97 %		42-146	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		78 %		37-136	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-4:16.5-17' (KT10058-04) Soil Sampled: 08/31/10 09:48 Received: 09/02/10 12:00									
4,4'-DDD	ND	1.8	ug/kg dry	1	1010264	09/07/10	09/08/10 18:38	8081A	
4,4'-DDE	ND	1.8	"	"	"	"	"	"	
4,4'-DDT	ND	1.8	"	"	"	"	"	"	
Aldrin	ND	1.8	"	"	"	"	"	"	
alpha-BHC	ND	1.8	"	"	"	"	"	"	
alpha-Chlordane	ND	1.8	"	"	"	"	"	"	
beta-BHC	ND	1.8	"	"	"	"	"	"	
Chlordane	ND	18	"	"	"	"	"	"	
delta-BHC	ND	1.8	"	"	"	"	"	"	
Dieldrin	ND	1.8	"	"	"	"	"	"	
Endosulfan I	ND	1.8	"	"	"	"	"	"	
Endosulfan II	ND	1.8	"	"	"	"	"	"	
Endosulfan sulfate	ND	1.8	"	"	"	"	"	"	
Endrin	ND	1.8	"	"	"	"	"	"	
Endrin aldehyde	ND	1.8	"	"	"	"	"	"	
Endrin ketone	ND	1.8	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.8	"	"	"	"	"	"	
gamma-Chlordane	ND	1.8	"	"	"	"	"	"	
Heptachlor	ND	1.8	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.8	"	"	"	"	"	"	
Methoxychlor	ND	1.8	"	"	"	"	"	"	
Toxaphene	ND	18	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		103 %		42-146	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		71 %		37-136	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2:1.5-2' (KT10058-05) Soil Sampled: 08/31/10 09:56 Received: 09/02/10 12:00									
4,4'-DDD	ND	1.7	ug/kg dry	1	1010264	09/07/10	09/08/10 19:14	8081A	
4,4'-DDE	ND	1.7	"	"	"	"	"	"	
4,4'-DDT	ND	1.7	"	"	"	"	"	"	
Aldrin	ND	1.7	"	"	"	"	"	"	
alpha-BHC	ND	1.7	"	"	"	"	"	"	
alpha-Chlordane	ND	1.7	"	"	"	"	"	"	
beta-BHC	ND	1.7	"	"	"	"	"	"	
Chlordane	ND	17	"	"	"	"	"	"	
delta-BHC	ND	1.7	"	"	"	"	"	"	
Dieldrin	ND	1.7	"	"	"	"	"	"	
Endosulfan I	ND	1.7	"	"	"	"	"	"	
Endosulfan II	ND	1.7	"	"	"	"	"	"	
Endosulfan sulfate	ND	1.7	"	"	"	"	"	"	
Endrin	ND	1.7	"	"	"	"	"	"	
Endrin aldehyde	ND	1.7	"	"	"	"	"	"	
Endrin ketone	ND	1.7	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.7	"	"	"	"	"	"	
gamma-Chlordane	ND	1.7	"	"	"	"	"	"	
Heptachlor	ND	1.7	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.7	"	"	"	"	"	"	
Methoxychlor	ND	1.7	"	"	"	"	"	"	
Toxaphene	ND	17	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		98 %		42-146	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		77 %		37-136	"	"	"	"	



Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2:16.5-17' (KT10058-06) Soil Sampled: 08/31/10 10:22 Received: 09/02/10 12:00									
4,4'-DDD	ND	1.7	ug/kg dry	1	1010264	09/07/10	09/08/10 19:50	8081A	
4,4'-DDE	ND	1.7	"	"	"	"	"	"	
4,4'-DDT	ND	1.7	"	"	"	"	"	"	
Aldrin	ND	1.7	"	"	"	"	"	"	
alpha-BHC	ND	1.7	"	"	"	"	"	"	
alpha-Chlordane	ND	1.7	"	"	"	"	"	"	
beta-BHC	ND	1.7	"	"	"	"	"	"	
Chlordane	ND	17	"	"	"	"	"	"	
delta-BHC	ND	1.7	"	"	"	"	"	"	
Dieldrin	ND	1.7	"	"	"	"	"	"	
Endosulfan I	ND	1.7	"	"	"	"	"	"	
Endosulfan II	ND	1.7	"	"	"	"	"	"	
Endosulfan sulfate	ND	1.7	"	"	"	"	"	"	
Endrin	ND	1.7	"	"	"	"	"	"	
Endrin aldehyde	ND	1.7	"	"	"	"	"	"	
Endrin ketone	ND	1.7	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.7	"	"	"	"	"	"	
gamma-Chlordane	ND	1.7	"	"	"	"	"	"	
Heptachlor	ND	1.7	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.7	"	"	"	"	"	"	
Methoxychlor	ND	1.7	"	"	"	"	"	"	
Toxaphene	ND	17	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		111 %		42-146	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		76 %		37-136	"	"	"	"	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-3:1.5-2' (KT10058-07) Soil Sampled: 08/31/10 10:53 Received: 09/02/10 12:00									
4,4'-DDD	ND	1.7	ug/kg dry	1	1010264	09/07/10	09/08/10 20:26	8081A	
4,4'-DDE	ND	1.7	"	"	"	"	"	"	
4,4'-DDT	ND	1.7	"	"	"	"	"	"	
Aldrin	ND	1.7	"	"	"	"	"	"	
alpha-BHC	ND	1.7	"	"	"	"	"	"	
alpha-Chlordane	ND	1.7	"	"	"	"	"	"	
beta-BHC	ND	1.7	"	"	"	"	"	"	
Chlordane	ND	17	"	"	"	"	"	"	
delta-BHC	ND	1.7	"	"	"	"	"	"	
Dieldrin	ND	1.7	"	"	"	"	"	"	
Endosulfan I	ND	1.7	"	"	"	"	"	"	
Endosulfan II	ND	1.7	"	"	"	"	"	"	
Endosulfan sulfate	ND	1.7	"	"	"	"	"	"	
Endrin	ND	1.7	"	"	"	"	"	"	
Endrin aldehyde	ND	1.7	"	"	"	"	"	"	
Endrin ketone	ND	1.7	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.7	"	"	"	"	"	"	
gamma-Chlordane	ND	1.7	"	"	"	"	"	"	
Heptachlor	ND	1.7	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.7	"	"	"	"	"	"	
Methoxychlor	ND	1.7	"	"	"	"	"	"	
Toxaphene	ND	17	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		103 %		42-146	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		76 %		37-136	"	"	"	"	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-3:16.5-17' (KT10058-08) Soil Sampled: 08/31/10 11:17 Received: 09/02/10 12:00									
4,4'-DDD	ND	2.0	ug/kg dry	1	10I0264	09/07/10	09/08/10 21:02	8081A	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	2.0	"	"	"	"	"	"	
Aldrin	ND	2.0	"	"	"	"	"	"	
alpha-BHC	ND	2.0	"	"	"	"	"	"	
alpha-Chlordane	ND	2.0	"	"	"	"	"	"	
beta-BHC	ND	2.0	"	"	"	"	"	"	
Chlordane	ND	20	"	"	"	"	"	"	
delta-BHC	ND	2.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	2.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	2.0	"	"	"	"	"	"	
Endrin ketone	ND	2.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	2.0	"	"	"	"	"	"	
gamma-Chlordane	ND	2.0	"	"	"	"	"	"	
Heptachlor	ND	2.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	2.0	"	"	"	"	"	"	
Methoxychlor	ND	2.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		104 %		42-146	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		71 %		37-136	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (KTI0058-09) Water Sampled: 08/31/10 11:30 Received: 09/02/10 12:00									
4,4'-DDD	ND	0.050	ug/L	1	10I0315	09/07/10	09/08/10 13:15	8081A	
4,4'-DDE	ND	0.050	"	"	"	"	"	"	
4,4'-DDT	ND	0.050	"	"	"	"	"	"	
Aldrin	ND	0.050	"	"	"	"	"	"	
alpha-BHC	ND	0.050	"	"	"	"	"	"	
alpha-Chlordane	ND	0.050	"	"	"	"	"	"	
beta-BHC	ND	0.050	"	"	"	"	"	"	
Chlordane	ND	0.50	"	"	"	"	"	"	
delta-BHC	ND	0.050	"	"	"	"	"	"	
Dieldrin	ND	0.050	"	"	"	"	"	"	
Endosulfan I	ND	0.050	"	"	"	"	"	"	
Endosulfan II	ND	0.050	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.050	"	"	"	"	"	"	
Endrin	ND	0.050	"	"	"	"	"	"	
Endrin aldehyde	ND	0.050	"	"	"	"	"	"	
Endrin ketone	ND	0.050	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.050	"	"	"	"	"	"	
gamma-Chlordane	ND	0.050	"	"	"	"	"	"	
Heptachlor	ND	0.050	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.050	"	"	"	"	"	"	
Methoxychlor	ND	0.050	"	"	"	"	"	"	
Toxaphene	ND	0.50	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		48 %		15-139	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		62 %		30-139	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00									
4,4'-DDD	ND	0.050	ug/L	1	10I0315	09/07/10	09/08/10 13:51	8081A	
4,4'-DDE	ND	0.050	"	"	"	"	"	"	
4,4'-DDT	ND	0.050	"	"	"	"	"	"	
Aldrin	ND	0.050	"	"	"	"	"	"	
alpha-BHC	ND	0.050	"	"	"	"	"	"	
alpha-Chlordane	ND	0.050	"	"	"	"	"	"	
beta-BHC	ND	0.050	"	"	"	"	"	"	
Chlordane	ND	0.50	"	"	"	"	"	"	
delta-BHC	ND	0.050	"	"	"	"	"	"	
Dieldrin	ND	0.050	"	"	"	"	"	"	
Endosulfan I	ND	0.050	"	"	"	"	"	"	
Endosulfan II	ND	0.050	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.050	"	"	"	"	"	"	
Endrin	ND	0.050	"	"	"	"	"	"	
Endrin aldehyde	ND	0.050	"	"	"	"	"	"	
Endrin ketone	ND	0.050	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.050	"	"	"	"	"	"	
gamma-Chlordane	ND	0.050	"	"	"	"	"	"	
Heptachlor	ND	0.050	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.050	"	"	"	"	"	"	
Methoxychlor	ND	0.050	"	"	"	"	"	"	
Toxaphene	ND	0.50	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		66 %		15-139	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		67 %		30-139	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Organochlorine Pesticides by EPA Method 8081A

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00									
4,4'-DDD	ND	0.050	ug/L	1	10I0315	09/07/10	09/08/10 14:27	8081A	
4,4'-DDE	ND	0.050	"	"	"	"	"	"	
4,4'-DDT	ND	0.050	"	"	"	"	"	"	
Aldrin	ND	0.050	"	"	"	"	"	"	
alpha-BHC	ND	0.050	"	"	"	"	"	"	
alpha-Chlordane	ND	0.050	"	"	"	"	"	"	
beta-BHC	ND	0.050	"	"	"	"	"	"	
Chlordane	ND	0.50	"	"	"	"	"	"	
delta-BHC	ND	0.050	"	"	"	"	"	"	
Dieldrin	ND	0.050	"	"	"	"	"	"	
Endosulfan I	ND	0.050	"	"	"	"	"	"	
Endosulfan II	ND	0.050	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.050	"	"	"	"	"	"	
Endrin	ND	0.050	"	"	"	"	"	"	
Endrin aldehyde	ND	0.050	"	"	"	"	"	"	
Endrin ketone	ND	0.050	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.050	"	"	"	"	"	"	
gamma-Chlordane	ND	0.050	"	"	"	"	"	"	
Heptachlor	ND	0.050	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.050	"	"	"	"	"	"	
Methoxychlor	ND	0.050	"	"	"	"	"	"	
Toxaphene	ND	0.50	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		62 %		15-139	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		69 %		30-139	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1:1.5-2' (KTI0058-01) Soil Sampled: 08/31/10 08:55 Received: 09/02/10 12:00 QSU									
Aroclor 1016	ND	18	ug/kg dry	1	10I0265	09/07/10	09/08/10 10:41	8082	
Aroclor 1221	ND	18	"	"	"	"	"	"	
Aroclor 1232	ND	18	"	"	"	"	"	"	
Aroclor 1242	ND	18	"	"	"	"	"	"	
Aroclor 1248	ND	18	"	"	"	"	"	"	
Aroclor 1254	ND	18	"	"	"	"	"	"	
Aroclor 1260	ND	18	"	"	"	"	"	"	
Aroclor 1262	ND	18	"	"	"	"	"	"	
Aroclor 1268	ND	18	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		100 %	34-148		"	"	"	"	
<i>Surrogate: Tetrachloro-m-xylene</i>		81 %	35-134		"	"	"	"	
B-1:13.5-14' (KTI0058-02) Soil Sampled: 08/31/10 09:07 Received: 09/02/10 12:00 QSU									
Aroclor 1016	ND	19	ug/kg dry	1	10I0265	09/07/10	09/08/10 11:00	8082	
Aroclor 1221	ND	19	"	"	"	"	"	"	
Aroclor 1232	ND	19	"	"	"	"	"	"	
Aroclor 1242	ND	19	"	"	"	"	"	"	
Aroclor 1248	ND	19	"	"	"	"	"	"	
Aroclor 1254	ND	19	"	"	"	"	"	"	
Aroclor 1260	ND	19	"	"	"	"	"	"	
Aroclor 1262	ND	19	"	"	"	"	"	"	
Aroclor 1268	ND	19	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		93 %	34-148		"	"	"	"	
<i>Surrogate: Tetrachloro-m-xylene</i>		78 %	35-134		"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-4:1.5-2' (KTI0058-03) Soil									QSU
Sampled: 08/31/10 09:29 Received: 09/02/10 12:00									

Aroclor 1016	ND	17	ug/kg dry	1	10I0265	09/07/10	09/08/10 11:18	8082	
Aroclor 1221	ND	17	"	"	"	"	"	"	
Aroclor 1232	ND	17	"	"	"	"	"	"	
Aroclor 1242	ND	17	"	"	"	"	"	"	
Aroclor 1248	ND	17	"	"	"	"	"	"	
Aroclor 1254	ND	17	"	"	"	"	"	"	
Aroclor 1260	ND	17	"	"	"	"	"	"	
Aroclor 1262	ND	17	"	"	"	"	"	"	
Aroclor 1268	ND	17	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		97 %	34-148		"	"	"	"	
<i>Surrogate: Tetrachloro-m-xylene</i>		81 %	35-134		"	"	"	"	

B-4:16.5-17' (KTI0058-04) Soil									QSU
Sampled: 08/31/10 09:48 Received: 09/02/10 12:00									

Aroclor 1016	ND	18	ug/kg dry	1	10I0265	09/07/10	09/08/10 11:36	8082	
Aroclor 1221	ND	18	"	"	"	"	"	"	
Aroclor 1232	ND	18	"	"	"	"	"	"	
Aroclor 1242	ND	18	"	"	"	"	"	"	
Aroclor 1248	ND	18	"	"	"	"	"	"	
Aroclor 1254	ND	18	"	"	"	"	"	"	
Aroclor 1260	ND	18	"	"	"	"	"	"	
Aroclor 1262	ND	18	"	"	"	"	"	"	
Aroclor 1268	ND	18	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		93 %	34-148		"	"	"	"	
<i>Surrogate: Tetrachloro-m-xylene</i>		76 %	35-134		"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-2 (KTI0058-09) Water Sampled: 08/31/10 11:30 Received: 09/02/10 12:00

Aroclor 1016	ND	0.50	ug/L	1	10I0316	09/07/10	09/08/10 08:33	8082	
Aroclor 1221	ND	0.50	"	"	"	"	"	"	
Aroclor 1232	ND	0.50	"	"	"	"	"	"	
Aroclor 1242	ND	0.50	"	"	"	"	"	"	
Aroclor 1248	ND	0.50	"	"	"	"	"	"	
Aroclor 1254	ND	0.50	"	"	"	"	"	"	
Aroclor 1260	ND	0.50	"	"	"	"	"	"	
Aroclor 1262	ND	0.50	"	"	"	"	"	"	
Aroclor 1268	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		41 %	12-137		"	"	"	"	
<i>Surrogate: Tetrachloro-m-xylene</i>		64 %	35-121		"	"	"	"	

MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00

Aroclor 1016	ND	0.50	ug/L	1	10I0316	09/07/10	09/08/10 08:52	8082	
Aroclor 1221	ND	0.50	"	"	"	"	"	"	
Aroclor 1232	ND	0.50	"	"	"	"	"	"	
Aroclor 1242	ND	0.50	"	"	"	"	"	"	
Aroclor 1248	ND	0.50	"	"	"	"	"	"	
Aroclor 1254	ND	0.50	"	"	"	"	"	"	
Aroclor 1260	ND	0.50	"	"	"	"	"	"	
Aroclor 1262	ND	0.50	"	"	"	"	"	"	
Aroclor 1268	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		55 %	12-137		"	"	"	"	
<i>Surrogate: Tetrachloro-m-xylene</i>		68 %	35-121		"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00									
Aroclor 1016	ND	0.50	ug/L	1	10I0316	09/07/10	09/08/10 09:10	8082	
Aroclor 1221	ND	0.50	"	"	"	"	"	"	
Aroclor 1232	ND	0.50	"	"	"	"	"	"	
Aroclor 1242	ND	0.50	"	"	"	"	"	"	
Aroclor 1248	ND	0.50	"	"	"	"	"	"	
Aroclor 1254	ND	0.50	"	"	"	"	"	"	
Aroclor 1260	ND	0.50	"	"	"	"	"	"	
Aroclor 1262	ND	0.50	"	"	"	"	"	"	
Aroclor 1268	ND	0.50	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		65 %		12-137	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		71 %		35-121	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Total Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-1:1.5-2' (KT10058-01) Soil **Sampled: 08/31/10 08:55** **Received: 09/02/10 12:00**

Aluminum	5410	10.7	mg/kg dry	1	10I0257	09/07/10	09/09/10 03:17	6010B	B
Antimony	ND	16.1	"	"	"	"	"	"	
Arsenic	1.3	2.1	"	"	"	"	"	"	J, B
Barium	20.9	0.536	"	"	"	"	"	"	B
Beryllium	0.209	0.214	"	"	"	"	"	"	J
Cadmium	0.034	0.214	"	"	"	"	"	"	J
Calcium	437	53.6	"	"	"	"	"	"	B
Chromium	10.5	0.536	"	"	"	"	"	"	
Cobalt	2.24	0.536	"	"	"	"	09/09/10 18:38	"	
Copper	6.0	1.1	"	"	"	"	09/09/10 03:17	"	
Iron	9880	10.7	"	"	"	"	"	"	B
Lead	3.6	1.1	"	"	"	"	09/09/10 18:38	"	
Magnesium	633	21.4	"	"	"	"	09/09/10 03:17	"	B
Manganese	141	0.2	"	"	"	"	"	"	
Nickel	8.47	5.36	"	"	"	"	"	"	
Potassium	139	32.2	"	"	"	"	"	"	B
Selenium	0.9	4.3	"	"	"	"	"	"	J
Silver	ND	0.536	"	"	"	"	"	"	
Sodium	28.6	150	"	"	"	"	"	"	J
Thallium	ND	6.4	"	"	"	"	"	"	
Vanadium	11.0	0.536	"	"	"	"	"	"	B
Zinc	12.4	2.1	"	"	"	"	"	"	
Mercury	0.0429	0.0207	"	"	10I0364	09/08/10	09/08/10 12:39	7471A	

B-1:13.5-14' (KT10058-02) Soil **Sampled: 08/31/10 09:07** **Received: 09/02/10 12:00**

Aluminum	1530	11.4	mg/kg dry	1	10I0257	09/07/10	09/09/10 03:22	6010B	B
Antimony	ND	17.0	"	"	"	"	"	"	
Arsenic	0.2	2.3	"	"	"	"	"	"	J, B
Barium	11.4	0.568	"	"	"	"	"	"	B
Beryllium	0.042	0.227	"	"	"	"	"	"	J
Cadmium	ND	0.227	"	"	"	"	"	"	
Calcium	97.4	56.8	"	"	"	"	"	"	B
Chromium	2.82	0.568	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Total Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-1:13.5-14' (KTI0058-02) Soil Sampled: 08/31/10 09:07 Received: 09/02/10 12:00

Cobalt	1.77	0.568	mg/kg dry	1	10I0257	09/07/10	09/09/10 18:44	6010B	
Copper	2.5	1.1	"	"	"	"	09/09/10 03:22	"	
Iron	2650	11.4	"	"	"	"	"	"	B
Lead	0.7	1.1	"	"	"	"	09/09/10 18:44	"	J
Magnesium	539	22.7	"	"	"	"	09/09/10 03:22	"	B
Manganese	134	0.2	"	"	"	"	"	"	
Nickel	5.73	5.68	"	"	"	"	"	"	
Potassium	347	34.1	"	"	"	"	"	"	B
Selenium	ND	4.5	"	"	"	"	"	"	
Silver	ND	0.568	"	"	"	"	"	"	
Sodium	27.1	159	"	"	"	"	"	"	J
Thallium	0.3	6.8	"	"	"	"	"	"	J, B
Vanadium	3.52	0.568	"	"	"	"	"	"	B
Zinc	9.3	2.3	"	"	"	"	"	"	
Mercury	ND	0.0216	"	"	10I0364	09/08/10	09/08/10 12:41	7471A	

B-4:1.5-2' (KTI0058-03) Soil Sampled: 08/31/10 09:29 Received: 09/02/10 12:00

Aluminum	4260	10.5	mg/kg dry	1	10I0257	09/07/10	09/09/10 03:27	6010B	B
Antimony	ND	15.7	"	"	"	"	"	"	
Arsenic	1.0	2.1	"	"	"	"	"	"	J, B
Barium	18.5	0.523	"	"	"	"	"	"	B
Beryllium	0.161	0.209	"	"	"	"	"	"	J
Cadmium	0.073	0.209	"	"	"	"	"	"	J
Calcium	240	52.3	"	"	"	"	"	"	B
Chromium	11.3	0.523	"	"	"	"	"	"	
Cobalt	3.34	0.523	"	"	"	"	09/09/10 19:00	"	
Copper	6.7	1.0	"	"	"	"	09/09/10 03:27	"	
Iron	12200	10.5	"	"	"	"	"	"	B
Lead	1.9	1.0	"	"	"	"	09/09/10 19:00	"	
Magnesium	905	20.9	"	"	"	"	09/09/10 03:27	"	B
Manganese	130	0.2	"	"	"	"	"	"	
Nickel	8.15	5.23	"	"	"	"	"	"	
Potassium	242	31.4	"	"	"	"	"	"	B

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Total Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-4:1.5-2' (KT10058-03) Soil Sampled: 08/31/10 09:29 Received: 09/02/10 12:00									
Selenium	1.1	4.2	mg/kg dry	1	10I0257	09/07/10	09/09/10 03:27	6010B	J
Silver	ND	0.523	"	"	"	"	"	"	
Sodium	45.3	146	"	"	"	"	"	"	J
Thallium	ND	6.3	"	"	"	"	"	"	
Vanadium	10.8	0.523	"	"	"	"	"	"	B
Zinc	19.6	2.1	"	"	"	"	"	"	
Mercury	ND	0.0193	"	"	10I0364	09/08/10	09/08/10 12:43	7471A	
B-4:16.5-17' (KT10058-04) Soil Sampled: 08/31/10 09:48 Received: 09/02/10 12:00									
Aluminum	2190	10.7	mg/kg dry	1	10I0257	09/07/10	09/09/10 03:33	6010B	B
Antimony	ND	16.0	"	"	"	"	"	"	
Arsenic	0.3	2.1	"	"	"	"	"	"	J, B
Barium	15.1	0.534	"	"	"	"	"	"	B
Beryllium	0.014	0.214	"	"	"	"	"	"	J
Cadmium	0.047	0.214	"	"	"	"	"	"	J
Calcium	4990	53.4	"	"	"	"	"	"	B
Chromium	4.74	0.534	"	"	"	"	"	"	
Cobalt	2.46	0.534	"	"	"	"	09/09/10 19:05	"	
Copper	5.5	1.1	"	"	"	"	09/09/10 03:33	"	
Iron	4200	10.7	"	"	"	"	"	"	B
Lead	1.0	1.1	"	"	"	"	09/09/10 19:05	"	J
Magnesium	771	21.4	"	"	"	"	09/09/10 03:33	"	B
Manganese	180	0.2	"	"	"	"	"	"	
Nickel	24.7	5.34	"	"	"	"	"	"	
Potassium	302	32.0	"	"	"	"	"	"	B
Selenium	ND	4.3	"	"	"	"	"	"	
Silver	ND	0.534	"	"	"	"	"	"	
Sodium	69.7	150	"	"	"	"	"	"	J
Thallium	ND	6.4	"	"	"	"	"	"	
Vanadium	4.57	0.534	"	"	"	"	"	"	B
Zinc	13.5	2.1	"	"	"	"	"	"	
Mercury	ND	0.0207	"	"	10I0364	09/08/10	09/08/10 12:44	7471A	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Total Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-2:1.5-2' (KT10058-05) Soil Sampled: 08/31/10 09:56 Received: 09/02/10 12:00

Aluminum	5860	9.8	mg/kg dry	1	10I0257	09/07/10	09/09/10 04:05	6010B	B
Antimony	ND	14.7	"	"	"	"	"	"	
Arsenic	1.0	2.0	"	"	"	"	"	"	J, B
Barium	22.8	0.490	"	"	"	"	"	"	B
Beryllium	0.198	0.196	"	"	"	"	"	"	
Cadmium	0.068	0.196	"	"	"	"	"	"	J
Calcium	358	49.0	"	"	"	"	"	"	B
Chromium	12.3	0.490	"	"	"	"	"	"	
Cobalt	3.64	0.490	"	"	"	"	"	"	
Copper	7.2	1.0	"	"	"	"	"	"	
Iron	12400	9.8	"	"	"	"	"	"	B
Lead	2.4	1.0	"	"	"	"	"	"	
Magnesium	1040	19.6	"	"	"	"	"	"	B
Manganese	122	0.2	"	"	"	"	"	"	
Nickel	8.80	4.90	"	"	"	"	"	"	
Potassium	150	29.4	"	"	"	"	"	"	B
Selenium	0.9	3.9	"	"	"	"	"	"	J
Silver	ND	0.490	"	"	"	"	"	"	
Sodium	103	137	"	"	"	"	"	"	J
Thallium	ND	5.9	"	"	"	"	"	"	
Vanadium	15.0	0.490	"	"	"	"	"	"	B
Zinc	12.1	2.0	"	"	"	"	"	"	
Mercury	ND	0.0210	"	"	10I0364	09/08/10	09/08/10 12:46	7471A	

B-2:16.5-17' (KT10058-06) Soil Sampled: 08/31/10 10:22 Received: 09/02/10 12:00

Aluminum	2530	10.3	mg/kg dry	1	10I0257	09/07/10	09/09/10 04:11	6010B	B
Antimony	ND	15.5	"	"	"	"	"	"	
Arsenic	0.6	2.1	"	"	"	"	"	"	J, B
Barium	13.1	0.515	"	"	"	"	"	"	B
Beryllium	0.101	0.206	"	"	"	"	"	"	J
Cadmium	0.039	0.206	"	"	"	"	"	"	J
Calcium	457	51.5	"	"	"	"	"	"	B
Chromium	5.78	0.515	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Total Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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B-2:16.5-17' (KTI0058-06) Soil Sampled: 08/31/10 10:22 Received: 09/02/10 12:00

Cobalt	2.36	0.515	mg/kg dry	1	10I0257	09/07/10	09/09/10 04:11	6010B	
Copper	5.2	1.0	"	"	"	"	"	"	
Iron	6510	10.3	"	"	"	"	"	"	B
Lead	1.2	1.0	"	"	"	"	"	"	
Magnesium	710	20.6	"	"	"	"	"	"	B
Manganese	163	0.2	"	"	"	"	"	"	
Nickel	8.60	5.15	"	"	"	"	"	"	
Potassium	253	30.9	"	"	"	"	"	"	B
Selenium	ND	4.1	"	"	"	"	"	"	
Silver	ND	0.515	"	"	"	"	"	"	
Sodium	95.0	144	"	"	"	"	"	"	J
Thallium	ND	6.2	"	"	"	"	"	"	
Vanadium	5.85	0.515	"	"	"	"	"	"	B
Zinc	7.6	2.1	"	"	"	"	"	"	
Mercury	ND	0.0203	"	"	10I0364	09/08/10	09/08/10 12:52	7471A	

B-3:1.5-2' (KTI0058-07) Soil Sampled: 08/31/10 10:53 Received: 09/02/10 12:00

Aluminum	3470	10.4	mg/kg dry	1	10I0257	09/07/10	09/09/10 04:16	6010B	B
Antimony	ND	15.6	"	"	"	"	"	"	
Arsenic	0.6	2.1	"	"	"	"	"	"	J, B
Barium	20.5	0.521	"	"	"	"	"	"	B
Beryllium	0.153	0.208	"	"	"	"	"	"	J
Cadmium	0.075	0.208	"	"	"	"	"	"	J
Calcium	315	52.1	"	"	"	"	"	"	B
Chromium	8.25	0.521	"	"	"	"	"	"	
Cobalt	2.93	0.521	"	"	"	"	"	"	
Copper	6.4	1.0	"	"	"	"	"	"	
Iron	10500	10.4	"	"	"	"	"	"	B
Lead	4.3	1.0	"	"	"	"	"	"	
Magnesium	1050	20.8	"	"	"	"	"	"	B
Manganese	151	0.2	"	"	"	"	"	"	
Nickel	8.11	5.21	"	"	"	"	"	"	
Potassium	389	31.3	"	"	"	"	"	"	B

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Total Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-3:1.5-2' (KT10058-07) Soil Sampled: 08/31/10 10:53 Received: 09/02/10 12:00									
Selenium	0.8	4.2	mg/kg dry	1	10I0257	09/07/10	09/09/10 04:16	6010B	J
Silver	ND	0.521	"	"	"	"	"	"	
Sodium	48.0	146	"	"	"	"	"	"	J
Thallium	ND	6.3	"	"	"	"	"	"	
Vanadium	9.92	0.521	"	"	"	"	"	"	B
Zinc	14.7	2.1	"	"	"	"	"	"	
Mercury	ND	0.0207	"	"	10I0364	09/08/10	09/08/10 12:53	7471A	
B-3:16.5-17' (KT10058-08) Soil Sampled: 08/31/10 11:17 Received: 09/02/10 12:00									
Aluminum	3250	12.0	mg/kg dry	1	10I0257	09/07/10	09/09/10 04:22	6010B	B
Antimony	ND	18.0	"	"	"	"	"	"	
Arsenic	0.7	2.4	"	"	"	"	"	"	J, B
Barium	22.8	0.600	"	"	"	"	"	"	B
Beryllium	0.114	0.240	"	"	"	"	"	"	J
Cadmium	0.047	0.240	"	"	"	"	"	"	J
Calcium	847	60.0	"	"	"	"	"	"	B
Chromium	5.85	0.600	"	"	"	"	"	"	
Cobalt	3.29	0.600	"	"	"	"	"	"	
Copper	6.7	1.2	"	"	"	"	"	"	
Iron	7010	12.0	"	"	"	"	"	"	B
Lead	1.2	1.2	"	"	"	"	"	"	
Magnesium	1440	24.0	"	"	"	"	"	"	B
Manganese	177	0.2	"	"	"	"	"	"	
Nickel	14.2	6.00	"	"	"	"	"	"	
Potassium	778	36.0	"	"	"	"	"	"	B
Selenium	0.7	4.8	"	"	"	"	"	"	J
Silver	ND	0.600	"	"	"	"	"	"	
Sodium	87.0	168	"	"	"	"	"	"	J
Thallium	ND	7.2	"	"	"	"	"	"	
Vanadium	7.87	0.600	"	"	"	"	"	"	B
Zinc	10.7	2.4	"	"	"	"	"	"	
Mercury	ND	0.0243	"	"	10I0364	09/08/10	09/08/10 12:55	7471A	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Total Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (KTI0058-09) Water Sampled: 08/31/10 11:30 Received: 09/02/10 12:00									
Aluminum	ND	0.200	mg/L	1	10I0337	09/08/10	09/09/10 11:35	6010B	
Antimony	ND	0.0200	"	"	"	"	"	"	
Arsenic	ND	0.0100	"	"	"	"	"	"	
Barium	0.0694	0.0020	"	"	"	"	"	"	
Beryllium	ND	0.0020	"	"	"	"	"	"	
Cadmium	ND	0.0010	"	"	"	"	"	"	
Calcium	56.6	0.5	"	"	"	"	"	"	B1, B
Chromium	ND	0.0040	"	"	"	"	"	"	
Cobalt	ND	0.0040	"	"	"	"	"	"	
Copper	ND	0.0100	"	"	"	"	"	"	
Iron	0.153	0.050	"	"	"	"	09/11/10 18:12	"	
Lead	ND	0.0050	"	"	"	"	09/09/10 11:35	"	
Magnesium	8.82	0.200	"	"	"	"	"	"	
Manganese	0.0796	0.0030	"	"	"	"	"	"	
Nickel	ND	0.0100	"	"	"	"	"	"	
Potassium	7.18	0.500	"	"	"	"	"	"	
Selenium	ND	0.0150	"	"	"	"	"	"	
Silver	ND	0.0030	"	"	"	"	"	"	
Sodium	33.2	1.0	"	"	"	"	"	"	
Thallium	ND	0.0200	"	"	"	"	"	"	
Vanadium	ND	0.0050	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	
Mercury	ND	0.0002	"	"	10I0262	09/07/10	09/07/10 14:20	7470A	

MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00

Aluminum	ND	0.200	mg/L	1	10I0337	09/08/10	09/09/10 11:41	6010B	
Antimony	ND	0.0200	"	"	"	"	"	"	
Arsenic	ND	0.0100	"	"	"	"	"	"	
Barium	0.0330	0.0020	"	"	"	"	"	"	
Beryllium	ND	0.0020	"	"	"	"	"	"	
Cadmium	ND	0.0010	"	"	"	"	"	"	
Calcium	60.5	0.5	"	"	"	"	"	"	B1, B
Chromium	ND	0.0040	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Total Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00

Cobalt	0.0070	0.0040	mg/L	1	10I0337	09/08/10	09/09/10 11:41	6010B	
Copper	ND	0.0100	"	"	"	"	"	"	
Iron	0.298	0.050	"	"	"	"	09/11/10 18:14	"	
Lead	ND	0.0050	"	"	"	"	09/09/10 11:41	"	
Magnesium	11.1	0.200	"	"	"	"	"	"	
Manganese	3.25	0.0030	"	"	"	"	"	"	
Nickel	ND	0.0100	"	"	"	"	"	"	
Potassium	4.66	0.500	"	"	"	"	"	"	
Selenium	ND	0.0150	"	"	"	"	"	"	
Silver	ND	0.0030	"	"	"	"	"	"	
Sodium	51.8	1.0	"	"	"	"	"	"	
Thallium	ND	0.0200	"	"	"	"	"	"	
Vanadium	ND	0.0050	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	
Mercury	ND	0.0002	"	"	10I0262	09/07/10	09/07/10 14:22	7470A	

MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00

Aluminum	0.485	0.200	mg/L	1	10I0337	09/08/10	09/09/10 11:43	6010B	
Antimony	ND	0.0200	"	"	"	"	"	"	
Arsenic	ND	0.0100	"	"	"	"	"	"	
Barium	0.0390	0.0020	"	"	"	"	"	"	
Beryllium	ND	0.0020	"	"	"	"	"	"	
Cadmium	ND	0.0010	"	"	"	"	"	"	
Calcium	61.6	0.5	"	"	"	"	"	"	B1, B
Chromium	ND	0.0040	"	"	"	"	"	"	
Cobalt	0.0075	0.0040	"	"	"	"	"	"	
Copper	ND	0.0100	"	"	"	"	"	"	
Iron	1.06	0.050	"	"	"	"	09/11/10 18:16	"	
Lead	0.0076	0.0050	"	"	"	"	09/09/10 11:43	"	
Magnesium	11.5	0.200	"	"	"	"	"	"	
Manganese	3.71	0.0030	"	"	"	"	"	"	
Nickel	ND	0.0100	"	"	"	"	"	"	
Potassium	4.93	0.500	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
 515 South Franklin Street
 West Chester PA, 19382

Project: Queens, NY
 Project Number: 10-2658.0
 Project Manager: Dave Galajda

Reported:
 09/14/10 14:23

Total Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00									
Selenium	ND	0.0150	mg/L	1	10I0337	09/08/10	09/09/10 11:43	6010B	
Silver	ND	0.0030	"	"	"	"	"	"	
Sodium	52.7	1.0	"	"	"	"	"	"	
Thallium	ND	0.0200	"	"	"	"	"	"	
Vanadium	ND	0.0050	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	
Mercury	ND	0.0002	"	"	10I0262	09/07/10	09/07/10 14:24	7470A	



Brickhouse Environmental
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West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Dissolved Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (KTI0058-09) Water Sampled: 08/31/10 11:30 Received: 09/02/10 12:00									
Aluminum	ND	0.200	mg/L	1	10I0341	09/08/10	09/09/10 12:35	6010B	
Antimony	ND	0.0200	"	"	"	"	"	"	
Arsenic	ND	0.0100	"	"	"	"	"	"	
Barium	0.0720	0.0020	"	"	"	"	"	"	
Beryllium	ND	0.0020	"	"	"	"	"	"	
Cadmium	ND	0.0010	"	"	"	"	"	"	
Calcium	59.9	0.5	"	"	"	"	"	"	B1, B
Chromium	ND	0.0040	"	"	"	"	"	"	
Cobalt	ND	0.0040	"	"	"	"	"	"	
Copper	ND	0.0100	"	"	"	"	"	"	
Iron	0.080	0.050	"	"	"	"	"	"	
Lead	ND	0.0050	"	"	"	"	"	"	
Magnesium	9.29	0.200	"	"	"	"	"	"	
Manganese	0.156	0.0030	"	"	"	"	"	"	
Nickel	ND	0.0100	"	"	"	"	"	"	
Potassium	7.49	0.500	"	"	"	"	"	"	
Selenium	ND	0.0150	"	"	"	"	"	"	
Silver	ND	0.0030	"	"	"	"	"	"	
Sodium	33.9	1.0	"	"	"	"	"	"	
Thallium	ND	0.0200	"	"	"	"	"	"	
Vanadium	ND	0.0050	"	"	"	"	"	"	
Zinc	0.0048	0.0100	"	"	"	"	"	"	J
Mercury	ND	0.0002	"	"	10I0263	09/07/10	09/07/10 14:57	7470A	

MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00

Aluminum	0.254	0.200	mg/L	1	10I0341	09/08/10	09/09/10 12:37	6010B	
Antimony	ND	0.0200	"	"	"	"	"	"	
Arsenic	ND	0.0100	"	"	"	"	"	"	
Barium	0.0372	0.0020	"	"	"	"	"	"	
Beryllium	ND	0.0020	"	"	"	"	"	"	
Cadmium	ND	0.0010	"	"	"	"	"	"	
Calcium	60.5	0.5	"	"	"	"	"	"	B1, B
Chromium	ND	0.0040	"	"	"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Dissolved Metals by SW 846 Series Methods
TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 (KTI0058-10) Water Sampled: 08/31/10 11:47 Received: 09/02/10 12:00

Cobalt	0.0073	0.0040	mg/L	1	10I0341	09/08/10	09/09/10 12:37	6010B	
Copper	ND	0.0100	"	"	"	"	"	"	
Iron	0.645	0.050	"	"	"	"	"	"	
Lead	0.0065	0.0050	"	"	"	"	"	"	
Magnesium	11.4	0.200	"	"	"	"	"	"	
Manganese	3.57	0.0030	"	"	"	"	"	"	
Nickel	ND	0.0100	"	"	"	"	"	"	
Potassium	4.76	0.500	"	"	"	"	"	"	
Selenium	ND	0.0150	"	"	"	"	"	"	
Silver	ND	0.0030	"	"	"	"	"	"	
Sodium	51.8	1.0	"	"	"	"	"	"	
Thallium	ND	0.0200	"	"	"	"	"	"	
Vanadium	ND	0.0050	"	"	"	"	"	"	
Zinc	0.0057	0.0100	"	"	"	"	"	"	J
Mercury	ND	0.0002	"	"	10I0263	09/07/10	09/07/10 14:58	7470A	

MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00

Aluminum	ND	0.200	mg/L	1	10I0341	09/08/10	09/09/10 12:39	6010B	
Antimony	ND	0.0200	"	"	"	"	"	"	
Arsenic	ND	0.0100	"	"	"	"	"	"	
Barium	0.0342	0.0020	"	"	"	"	"	"	
Beryllium	ND	0.0020	"	"	"	"	"	"	
Cadmium	ND	0.0010	"	"	"	"	"	"	
Calcium	62.7	0.5	"	"	"	"	"	"	B1, B
Chromium	ND	0.0040	"	"	"	"	"	"	
Cobalt	0.0082	0.0040	"	"	"	"	"	"	
Copper	ND	0.0100	"	"	"	"	"	"	
Iron	0.346	0.050	"	"	"	"	"	"	
Lead	ND	0.0050	"	"	"	"	"	"	
Magnesium	11.8	0.200	"	"	"	"	"	"	
Manganese	3.77	0.0030	"	"	"	"	"	"	
Nickel	ND	0.0100	"	"	"	"	"	"	
Potassium	4.95	0.500	"	"	"	"	"	"	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Dissolved Metals by SW 846 Series Methods

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (KTI0058-11) Water Sampled: 08/31/10 12:15 Received: 09/02/10 12:00									
Selenium	ND	0.0150	mg/L	1	10I0341	09/08/10	09/09/10 12:39	6010B	
Silver	ND	0.0030	"	"	"	"	"	"	
Sodium	53.5	1.0	"	"	"	"	"	"	
Thallium	ND	0.0200	"	"	"	"	"	"	
Vanadium	ND	0.0050	"	"	"	"	"	"	
Zinc	0.0041	0.0100	"	"	"	"	"	"	J
Mercury	ND	0.0002	"	"	10I0263	09/07/10	09/07/10 15:00	7470A	



Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

General Chemistry Parameters

TestAmerica Buffalo

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1:1.5-2' (KTI0058-01) Soil Sampled: 08/31/10 08:55 Received: 09/02/10 12:00									
Percent Solids	95	0.010	%	1	10I0298	09/07/10	09/07/10 16:06	Dry Weight	
B-1:13.5-14' (KTI0058-02) Soil Sampled: 08/31/10 09:07 Received: 09/02/10 12:00									
Percent Solids	88	0.010	%	1	10I0298	09/07/10	09/07/10 16:08	Dry Weight	
B-4:1.5-2' (KTI0058-03) Soil Sampled: 08/31/10 09:29 Received: 09/02/10 12:00									
Percent Solids	97	0.010	%	1	10I0298	09/07/10	09/07/10 16:10	Dry Weight	
B-4:16.5-17' (KTI0058-04) Soil Sampled: 08/31/10 09:48 Received: 09/02/10 12:00									
Percent Solids	92	0.010	%	1	10I0298	09/07/10	09/07/10 16:12	Dry Weight	
B-2:1.5-2' (KTI0058-05) Soil Sampled: 08/31/10 09:56 Received: 09/02/10 12:00									
Percent Solids	96	0.010	%	1	10I0298	09/07/10	09/07/10 16:14	Dry Weight	
B-2:16.5-17' (KTI0058-06) Soil Sampled: 08/31/10 10:22 Received: 09/02/10 12:00									
Percent Solids	97	0.010	%	1	10I0298	09/07/10	09/07/10 16:16	Dry Weight	
B-3:1.5-2' (KTI0058-07) Soil Sampled: 08/31/10 10:53 Received: 09/02/10 12:00									
Percent Solids	96	0.010	%	1	10I0298	09/07/10	09/07/10 16:18	Dry Weight	
B-3:16.5-17' (KTI0058-08) Soil Sampled: 08/31/10 11:17 Received: 09/02/10 12:00									
Percent Solids	83	0.010	%	1	10I0298	09/07/10	09/07/10 16:20	Dry Weight	

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Oswaldo Burgos, Project Manager

Brickhouse Environmental
515 South Franklin Street
West Chester PA, 19382

Project: Queens, NY
Project Number: 10-2658.0
Project Manager: Dave Galajda

Reported:
09/14/10 14:23

Notes and Definitions

- QSU Sulfur (EPA 3660) clean-up performed on extract.
- J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
- B1 Analyte was detected in the associated method / calibration blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
- B Analyte was detected in the associated Method Blank.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED above reporting limit. If MDL is provided, analyte is NOT DETECTED above the MDL
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Cooler Receipt Form

WORK ORDER #: KT10058

Client: Brockhouse Project: Queens, NY

Temperature Upon Receipt by IR: 6.0

Cooler received from: TA Courier Client FedEx UPS Other: _____

For Received Shipments only:	
Number of Coolers: <u>1 2 3+</u>	Custody Seals Intact? <u>Y</u> N
Ice Present? <u>Y</u> N N/A Melted	Packing Material: <u>Bubble Wrap</u> Other None

For Subcontracted Samples only:
ALL preserved containers (except VOA) checked for correct pH and are acceptable? <u>Y</u> N N/A
Residual Chlorine checks done on each container that needs it? <u>Y</u> N N/A

Voa Vials have air bubbles > 6mm? Y N N/A
 Sufficient volume for all analyses? Y N
 All Sample Containers Intact: Y N
 All Sample Containers received: Y N
 List Discrepancies below if indicated:

All Sample Containers labeled: Y N
 All Container labels match COC: Y N

Review COC against Sample Acceptance Checklist:

- | | | |
|---|------------|----|
| 1. Client Name & Address present | <u>Yes</u> | No |
| 2. Project Name and/or Number included | <u>Yes</u> | No |
| 3. Field Sampler Name listed | <u>Yes</u> | No |
| 4. Field ID/Location - one sample per line | <u>Yes</u> | No |
| 5. Date collected (for each sample) | <u>Yes</u> | No |
| 6. Time collected (for each sample) | <u>Yes</u> | No |
| 7. Matrix (for each sample) | <u>Yes</u> | No |
| 8. Number & Types of bottles per sample (and preservation type) | <u>Yes</u> | No |
| 9. Analysis Requested | <u>Yes</u> | No |
| 10. Sign & Date in the Relinquished Box | <u>Yes</u> | No |

Discrepancies: _____

Spec Sheet/CAR#: _____ PM or Client contacted? Y N N/A

Signature: [Handwritten Signature]

Date/Time: 9/2/10

Appendix E:
Construction Health and Safety Plan
(CHASP)

CONSTRUCTION HEALTH and SAFETY PLAN

CONVENTIONAL CONSTRUCTION



NORTH CONDUIT HOTEL JFK AIRPORT, NEW YORK CEQR No. 07DCP024Q

Prepared by:

Evan Lemonides Associates
105 Broad Street, Floor 5
New York, NY 10004
(212) 334-1962

TABLE OF CONTENTS

SECTION		PAGE
1.0	COMPLIANCE LETTER.....	5
	1. Contractor agreement to comply with all affected federal, state, and local environmental, safety and health requirements applicable to the scope of work.	
	2. Copy of Record of Contractors previous (2) years total loss history, or	
	3. Contractor's OSHA 300 Logs for current year and past three years. or	
	4. Experience Modification Rate (EMR) from Insurance Broker for previous (2) years.	
	5. Printout of property damage claims for previous (2) years from Insurance Carrier or Broker.	
	6. Environmental compliance records (if applicable) for past five years, including fines, Administrative Consent Orders, and Notices of Violations.	
2.0	STATEMENT OF ACCIDENT PREVENTION PROGRAM	
	1. Safety Designee and Alternate named in HASP.....	7
	2. Qualifications of Safety Representative/Alternate.....	8
	3. Designated Safety Representative or Alternate will be on the project site whenever work is in progress.....	8
	4. Competent Person Criteria.....	9
3.0	CONTRACTOR/SUBCONTRACTOR RESPONSIBILITIES.....	10
4.0	SAFETY TRAINING AND COMMUNICATION	
	1. Training and Education.....	11
	2. Drug-free workplace Policy Statement.....	12
	3. Drug-free workplace requirements – Toolbox Talk.....	13
	4. Toolbox Topic outlining, Task, Hazards, Control Measures, Target Audience.....	14, 15
5.0	HAZARD COMMUNICATION	
	1. Example of Hazard Communication Program.....	16, 17
	2. Hazard Communication Training Program.....	18, 19
	3. Hazard Communication Training Session Acknowledgement Sheet.....	20
	4. List of Hazardous Chemicals Known to be Present.....	21
6.0	EMERGENCIES: FIRE, MEDICAL, ENVIRONMENTAL and ACCIDENTS.....	22 - 24
7.0	EXCAVATIONS	
	1. Example of Competent Person Qualification.....	25
	2. Excavation Plan.....	26
	3. Cave-In Protection Equipment.....	27
8.0	CONCRETE and MASONRY PENETRATIONS	

	1. A Written Concrete and Masonry Penetration Plan.....	28
9.0	ELECTRICAL SAFETY	
	1. Electrical Safety Program & Safe Guard Checklist.....	29
	2. Periodic Inspection Checklist.....	30
	3. Safety MasterCard.....	31
	4. Sample Electrical Work Permit Forms.....	32 - 34
10.0	MOBILE EQUIPMENT PROGRAM	
	1. Safe Operation and Maintenance.....	35, 36
	2. Rigging Plan.....	37, 38
	3. Requirements for Site -Clearing Plan.....	39
	4. Site-Clearing Plan Worksheet	40
11.0	FALL PROTECTION	
	1. Scaffold Training Session Acknowledgement Sheet.....	41 - 43
	NOTE: <i>If the Contractor cannot comply with Subpart M of the OSHA 1926 Standards regarding Fall Protection, then a site-specific Fall Protection Plan must be developed and provided to Tserpes Holding Inc.</i>	
12.0	LOCKOUT/TAG-OUT PROGRAM.....	44 - 46
13.0	HOT WORK (WELDING/CUTTING & OPEN FLAME OPERATIONS.....	47, 48
14.0	CONFINED SPACE ENTRY.....	49
15.0	RESPIRATORY PROTECTION & EXPOSURE MONITORING.....	50 - 52
16.0	PHASE HAZARD ANALYSIS PROGRAM.....	53 - 61
	1. Identification of specific hazards associated with scope of work for the project	
	2. All Construction Contract - General PHA to allow work to begin.	
17.0	SOURCES OF RADIATION.....	62, 63
	1. Lasers	
	2. Ionizing Radiation Sources	
18.0	OCCUPATIONAL MEDICINE PROGRAM.....	64 - 67

Note: If a Section does not apply to your contract work, insert at the top of that Section:

“This Section does not apply to this contract work”

Section 1: COMPLIANCE LETTER

(COMPANY LETTERHEAD)

Date: _____

Tserpes Holding, Inc.
Bldg. 650T
Upton, N.Y. 11973
Attn: Mr. George Tserpes, Construction Supervisor

Job Title: North Conduit Hotel
Block/Lot: Block 12095, Lots 2 and 6 and a portion of North Conduit Avenue

Dear Mr. Tserpes:

In conformance with the requirements of the construction documents for the above project, the following information is submitted on our company's construction Health and Safety Program, (HASP) :

- Copy of Record of Contractors previous (2) years total loss history **or**,
- Copy of the company's record of injuries and accidents (OSHA 300 logs), **or**
- Insurance experience modification rate for the past two years, **and**
- Environmental compliance records (if applicable) for past five years, including fines, Administrative Consent Orders, and Notices of Violations.

We understand that Tserpes Holding, Inc. is registered Limited Liability Company. ***(Insert Company Name)*** its employees and subcontractors shall follow the Occupational, Safety and Health Administration (OSHA) standards and the New York State (NYS) Industrial Code Rules. If this HASP is amended i.e. changes in scope of work, new materials or processes, or as new information dictate, Tserpes Holding Inc. review and accept those changes prior to implementation.

(Insert Company Name) its employees and subcontractors shall comply with the applicable requirements established in the Occupational, Safety and Health Administration (OSHA) standards, NYC Department of Building (DOB) Directives, New York State (NYS) Industrial Code Rules.

Tserpes Holding Inc. shall provide all appropriate permits required by these standards. ***(Insert Company Name)*** shall verify that these permits are current for the scope of work and updated, with appropriate approvals, to reflect any changes to the scope of work, and shall abide by the requirements of the permit.

Sincerely,

Title: _____

Date: _____

Section 2: STATEMENT OF ACCIDENT PREVENTION PROGRAM

(COMPANY LETTERHEAD)

Job Title: North Conduit Hotel

Block/Lot: Block 12095, Lots 2 and 6 and a portion of North Conduit Avenue

Project Superintendent: _____

Phone Numbers: **Onsite:** _____ **Off Site:** _____

Policy Statement: A safe and healthful place of employment is a basic right of every working person. Exposure to unsafe conditions, no matter who created them, is unacceptable. Therefore, accident prevention measures shall be integrated with all operating functions.

A safe and healthful place of employment can exist and be maintained only if both supervisory and non-supervisory personnel participate in and support the safety and health program by working with whoever is designated as being responsible for overseeing safety and health conditions on the job site. Employees should report all unsafe conditions to the Safety Representative or Alternate.

For each jobsite there shall be a **Safety Representative** and a **Safety Alternate**.

Name: _____

Phone Numbers: Jobsite: _____ **Office:** _____

Pager: _____ **Alternate's Name:** _____

The Safety Representative shall implement the Accident Prevention Program and shall:

1. Prior to the start of work each day on a jobsite, evaluate the site for any unsafe conditions at the jobsite and take appropriate steps to eliminate employee exposure.
2. Prior to the initiation of any work by employees, evaluate the hazards of that work, and instruct the employees as to site and job-specific hazards. As jobs change, site and job-specific instructions shall also change.
3. As a minimum, conduct documented weekly Safety Toolbox meetings with all employees. These meetings may be in the form of one-on-one contacts or group meetings.
4. At a minimum, inspect the jobsite daily. Such inspections shall be documented, using a safety and health checklist noting discrepancies and the corrective actions taken. Include a descriptive outline of the program for daily inspections and reporting of jobsite conditions. The program shall include the person responsible for conducting inspections, the frequency of inspections, reporting unsafe acts or conditions, and taking corrective action to prevent or control the unsafe act or condition. Daily inspections shall be performed and documented by the Safety Representative or Alternate during active construction, periodically during shutdowns to ensure site barriers are maintained, etc., and when mandated by adverse weather conditions.
5. Insure that first aid and emergency services are available when required. Minor injuries shall be those that are treatable by first aid only and the contractor must maintain a First Aid Injury Log where the first aid kit(s) are located. The sheets shall be turned in monthly to the project office for recordkeeping purposes. All other injuries, beyond basic first aid shall be reported to and treated by **Jamaica Hospital**, located at 890 Van Wyck Expressway, Jamaica, NY 11418. Site-specific directions to Jamaica Hospital are attached as an appendix to this document.

6. Investigate all accidents or near-miss accidents and take appropriate steps to eliminate the cause of the accident before work is resumed. All such incidents and the follow-up treatment shall be reported immediately to the Tserpes Holding Inc. Project Manager for required additional notifications.
7. Periodically review and update this checklist with additional items that were originally not included, but identified during the worksite inspections.
8. Inform all employees of the location and availability of the company's WRITTEN HAZARD COMMUNICATION PROGRAM, which is required to be on the jobsite, and which must include copies of all MATERIAL SAFETY DATA SHEETS (MSDS) for hazardous materials used on the jobsite by the Company.
9. Make readily available for all employees copies of 29 CFR 1910.20, Employee Access to Exposure and Medical Records (which includes Material Safety Data Sheets and other exposure records).
10. Conduct annual training for employees concerning who is the person responsible for keeping these records and that the employees or their authorized representatives have the right to have access to them.
11. Ensure that all personnel (workers or visitors) wear, as a minimum, the following personal protective equipment (PPE)
 - a. Approved head protection (Hard-hat required for all construction sites).
 - b. Approved foot protection
 - c. Approved safety glasses with side-shields – ANSI Z87 compliant
 - d. Long pants.
 - e. Shirts with sleeves that cover the shoulders, no tank tops or cut-off shirts.
 - f. Hi-Visibility Reflective Vests or clean Hi-Visibility apparel.
12. Ensure that all workers on the job site wear personal protective equipment appropriate for their particular task as defined in the Phase Hazard Analysis, (PHA), written for that scope of work. **The Safety Representative or Alternate shall be on the site and immediately available whenever physical work is in progress, either by the General Contractor or by subs of any tier.**

Safety Representative Training and Qualifications:

I certify that the Safety Representative and Alternate, has completed, as a minimum, the 10-hour OSHA Construction Safety course, (no subcontractors). For multi-discipline projects, using subcontractors, the 30-hour OSHA Construction Safety Course shall be completed. **Attached is a copy of those individual's training completion certificate(s).**

A summary of the Safety Representative's and Alternate's training and qualifications, as appropriate for this job, is also included. The individuals are trained and knowledgeable in the Environment, Safety & Health requirements of the project for which he or she shall be responsible.

Acceptable training and qualifications shall include certificates of completion for formal classroom and hands-on training, as applicable, in:

- OSHA- approved 10-Hour Construction Safety & Health Regulations, 30-Hour for high hazard or complex activities, (supervising subcontractor work).

Additional training may be required for specific hazards for competent persons.

Designation as Competent Person:

Specific identification of "Competent Person" (per OSHA), his/her qualifications, including, but not limited to, formal Construction Safety Awareness courses taken, applicable to the nature of this Project, and where applicable, the method of accomplishment in a specific plan, i.e. fall protection, excavation. Competent Person must have had formal, documented training, have knowledge of existing standards, and have authority to take actions deemed necessary.

- Competent Persons shall be designated by the Contractors Safety Representative to oversee safety matters in an individual group performing work at individual work locations. They shall be designated in the HASP. Competent Persons are the Contractors' persons responsible for safety matters in an individual group performing work at individual work locations. They may be Subcontractor personnel and have other Project responsibilities in addition to their safety function. They shall be familiar with the work being performed, shall have appropriate OSHA related training, be familiar with the hazards to be encountered at the particular Work Site, and shall be capable of being designated as the OSHA defined "Competent Person". They shall have the authority to stop the work if an unsafe condition develops or an unsafe act is occurring. An interview may be required with Tserpes Holding Inc. to establish their competency and to secure Tserpes Holding Inc.'s acceptance/concurrence prior to their assignment as a Competent Person.
- Note: A "Competent Person" certification is not achieved just by successfully completing a 10 or 30 hour Construction Outreach Safety training course. It is through specialized courses of instruction for that particular field or topic.
- Operations requiring a Competent Person:
 - Lockout/Tag out (LOTO)
 - Working on live electrical circuits
 - Scaffolds
 - Excavations
 - Confined Spaces
 - Material handling/forklift operation/rigging
 - Fall Protection
 - Respiratory Protection
 - Hazardous Chemicals
 - Lead, asbestos
 - Radiological

Company Owner/President/CEO

Date: _____

Section 3: CONTRACTOR/SUBCONTRACTOR RESPONSIBILITIES

(COMPANY LETTERHEAD)

The following summarizes the responsibilities of the (Insert Company Name) as prime contractor and any subcontractors hired by the contractor in the course of this project:

CONTRACTOR RESPONSIBILITIES:

- General Contractors shall retain full responsibility for the safety of his/her personnel and all subcontractor personnel.
- Immediately stop and rectify any and all conditions that are found to be unsafe and/or unsanitary.
- Issue a "Stop Work" for those events, which pose an imminent danger to personnel, environment, or equipment. All Stop Work orders shall be reported to the Tserpes Holding Inc. Construction Inspector.
- A follow-up report shall be issued detailing the action taken to rectify any and all unsafe conditions.
- Coordination of activities with Subcontractors shall take place to ensure work proceeds in accordance with applicable safety requirements.
- Tserpes Holding Inc. Construction Inspector and Subcontractors shall be notified of any recognized hazards, potential problem areas and safety requirements.
- Establish and maintain complete and accurate records of construction site hazard inventory information, hazard assessments, exposure measurements, and exposure controls, including a daily, written inspection of the site.
- Coordination of all pertinent certifications, training and record keeping shall take place and their accessibility for review made available.
- Review possible safety hazards, construction activities, etc., with his/her personnel.

SUBCONTRACTOR RESPONSIBILITIES:

- Subcontractors shall retain full responsibility for the safety of his/her personnel also.
- Subcontractors shall sign-off indicating acceptance of the General Contractor's HASP before starting work on the site.
- Review possible safety hazards, construction activities, etc., with his/her personnel.
- Issue a "Stop Work" order for those events which pose an imminent danger to personnel, environment, or equipment. All Stop Work orders shall be reported to the General Contractor and the Tserpes Holding Inc. Construction Inspector.
- Ensure that their supervisors and workers understand all necessary precautions to be taken and sees that these precautions are carried out.
- Make regular inspections of hand tools and equipment prior to daily use in all phases of the construction activity.
- Immediately correct any safety deficiencies when identified and/or notified.
- Immediately inform the General Contractor and General Contractor Safety Representative of any and all unsafe conditions or activities.

An open and continuous line of communication shall be maintained between the Contractor and Subcontractor to discuss and abate any unsafe acts or conditions that arise or may arise in the course of this project.

Section 4:

SAFETY TRAINING AND COMMUNICATION

(COMPANY LETTERHEAD)

TRAINING AND EDUCATION:

- Effective safety oriented signs and posters shall be properly posted and clearly visible at various locations around the job site to include the designated entrance to the project site.
 - The Safety Representative or Alternate shall ensure that all personnel and Subcontractors have been properly trained for the hazards anticipated on this project as specified in Section 15, "*Phase Hazard Analysis*".
 - All new or re-hired personnel shall be effectively instructed in construction safety policies, regulations and procedures for the project prior to the start of work, for one's own safety and the safety of all those working at the job site (documented).
 - Avoiding recognized potential hazardous situations during the activities planned for the workweek shall be addressed at weekly toolbox talks or more frequently if necessary. Any new safety procedures, PHA's, and safety updates shall be discussed at these talks, and a safety-conscious attitude shall be emphasized and reinforced.
 - As each new phase of construction begins, as specified in Section 16, "*Phase Hazard Analysis*" (PHA), comprehensive, detailed, task-specific PHA's shall be developed and submitted for acceptance, a minimum of one week ahead of the scheduled activity start, and a safety awareness meeting shall be held for all personnel and subcontractors involved in that new aspect of the work. The affected employees shall review and acknowledge the PHA with their signature.
 - Proper steps shall be taken to correct non-compliance and to all personnel not practicing appropriate safety measures and procedures.
 - Incorrect safety practice/procedure shall be immediately communicated to the responsible person.
 - The Safety Representative or Alternate shall ensure that the person has a clear understanding of the corrective action to take and the possible consequences if those measures are not followed.
 - Severe or repetitive safety violations shall be cause for permanent removal from the job site.
- The Safety Representative shall maintain on file any special training records and education documentation. These files shall be continuously updated.

DRUG-FREE WORKPLACE POLICY STATEMENT

(COMPANY LETTERHEAD)

Drug-Free Workplace

Policy Statement:

The unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace. A single violation of such prohibition shall result in the offending individual being removed from the job-site and recommendation of participation in an approved drug abuse assistance or rehabilitation program, and/or reporting to the civil authorities for criminal prosecution.

All employees shall abide by the rules of this program, and shall notify the employer in writing of the employee's conviction under a criminal drug statute for a violation occurring in the workplace no later than 5 days after such conviction.

Program Elements:

Ongoing drug-free awareness training program includes:

1. Mandatory, documented participation by all employees as outlined on the following page.
2. Classroom and/or toolbox discussions shall include:
 - The dangers of drug abuse in the workplace.
 - Distribution and discussion of the Contractor's policy of maintaining a drug-free workplace.
 - Any available drug counseling, rehabilitation, and employee assistance programs.
 - The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace.
3. Intervention Procedures - employee and supervisor.
 - Identification - Signs and Symptoms
 - Corrective action
4. Personnel actions - program enforcement, disciplinary options, and employee assistance.
 - Legal or criminal actions.
 - Disciplinary actions up to and including termination.
 - Drug abuse or rehabilitation program.
5. Tserpes Holding Inc.'s Contracting Officer shall be notified in writing within 10 days after receiving notice of an employee's conviction under a criminal drug statute for a violation occurring in the workplace. Notification shall include the position title of the employee and the appropriate personnel action to be taken within 30 days under the requirements of this program.

Company Owner/President/CEO

Date: _____

DRUG-FREE WORKPLACE REQUIREMENTS – TOOL BOX TALK

Project Title: _____

Location: _____

Date: _____

Instructor: _____

(Insert Company Name) strictly prohibits the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance including alcohol. A single violation of such prohibition shall result in the offending individual being removed from the job-site and recommendation of participation in an approved drug abuse assistance or rehabilitation program, and/or reporting to the civil authorities for criminal prosecution. Counseling, rehabilitation, and assistance are available through this company, for further information contact *(Insert Employee Assistance Representative's)* or talk to your supervisor.

All employees shall abide by the rules of this program and shall notify *(Insert Company Name)* in writing of the employee's conviction under a criminal drug statute for a violation occurring in the workplace no later than 5 days after such conviction.

Personnel should be alert to abnormal behavior, and are required to report their observations to the appropriate supervisory personnel. Should the behavior create or have the potential to create a hazard to personnel, property or the environment, personnel have the right to stop work on that activity.

Substance and alcohol abuse shall not be tolerated in the workplace. It contributes to unsafe, unproductive work, and may result in adverse action against you personally by company and legal authorities.

List of trained attendees: (To be continuously updated and included with the project file)

TOOL BOX TOPIC - OUTLINING, TASKS, HAZARDS and CONTROL MEASURES (Target Audience)

Worker Safety Toolbox Topic Meetings

Worker Safety Toolbox Topic meetings shall be held no less than once each week. Each employee of the Contractor and each subcontractor working at the Site shall attend these meetings.

An employee failing to attend a Toolbox Topic meeting shall not be permitted to perform any work that requires safety precautions that were discussed in the meeting, until the employee has received the same instruction.

The Contractor should notify Tserpes Holding Inc. at least 1 week in advance of each scheduled Toolbox Topic meeting. A record of each meeting, including the topics covered, and a signed list of attendees, shall be prepared by the Safety Representative or the Alternate and transmitted to the Tserpes Holding Inc. Project Engineer within 3 working days after the meeting.

Each Toolbox Topic meeting shall include instruction and discussion of safe working methods, PHA's, and applicable rules required for the safe performance of the work scheduled during the 1-week period following the meeting. Tserpes Holding Inc. reserves the right to direct the Contractor to cover additional information.

The Toolbox Topic meeting may be conducted by the Safety Representative, the Contractor supervisor, or by a supervisor of the subcontractor. The Safety Representative shall approve the content of each subcontractor Worker Safety Toolbox Topic Meeting.

Selecting Tool Box Topics

Use common sense in selecting a pertinent topic. You wouldn't want to present "Dressing for Winter Work" in the middle of summer. "Heat Exhaustion/Sunstroke" is more appropriate to the season. Failure on management's part to select an appropriate topic to present will result in uninterested workers, a waste of everyone's time and a loss of credibility on the part of company management.

Observe job-safety techniques. Focus on what is important (and mandatory). Listen to and follow up on employee recommendations. Identify what poor work practices are causing injuries or accidents on the job. Plan for and schedule out for a month so you have time to research and possibly modify your company policy to make it more effective.

Recognizing Unsafe Conditions

Recognizing unsafe conditions, or hazards in the workplace, is not just a Management responsibility. It is everyone's responsibility from the most junior employee to the company president to identify hazards and make suggestions on how to fix the problem.

Guide for Discussion

Help develop and/or participate in the review of the specific Phase Hazard Analysis for the task to be done.

- Causes of unsafe conditions or actions:

- Taking an unsafe position
- Lack of skill or knowledge or failure to apply skill or knowledge.
- Poor housekeeping, cluttered work area.
- Horseplay.
- Congested, poorly lit, sloppy material storage areas.
- Careless handling of materials.
- Improper or defective tools being used.
- Lack of machine guarding or failure to install/maintain warning systems.
- Lack of or failure to wear the proper personal protection equipment, (PPE).
- Weather conditions – high winds, snow and ice, lightning.

- Worker not dressing properly for the job to be done.
- Failure to follow instructions.
- Inattention to surroundings and to identify the existing hazards in the work area.
- Poor attitude towards the safety effort/program
- Taking chances or shortcuts.
- Worker's physical condition or limitations, not being "fit for duty".

Steps to take once an unsafe condition is found:

- If possible, correct the condition yourself immediately
- Report any major unsafe condition or action to the appropriate company authority.
- Follow-up – report the condition again if it is not corrected.

Remember: There are three steps to follow in recognizing unsafe conditions.

- Look for trouble (the unsafe condition),
- Report it or fix it, (if you can), and
- Act to prevent it from happening again.

Additional Discussion Notes that are Specific to this Project:

NOTE: Always promote a discussion on any of the topics covered in the Worker Safety Tool Box Meetings. Should any question arise that you cannot answer, don't hesitate to contact your Employer.

(INSERT COMPANY NAME)

EXAMPLE OF HAZARD COMMUNICATION PROGRAM

1. Purpose

The purpose of this hazard communication program is to inform ***(Insert Company Name)*** employees and all sub-contractor employees of known chemical hazards that may exist in the workplace as per OSHA Subpart Z, §1910.1200;.

2. Application

This program applies to chemicals known to be present in the workplace in such a manner that employees may be exposed under normal conditions, non-routine tasks, or foreseeable emergencies.

This hazard communication program relies on Material Safety Data Sheets (MSDS) from suppliers for purposes of hazard determination.

3. Program Summary

The major elements of this written program are as follows:

- α) Labels and other forms of warning
- β) Material Safety Data Sheets (MSDS) from suppliers
- γ) Employee information and training
- δ) List of hazardous chemicals known to be present in the workplace
- ε) Methods for informing employees of hazards of non-routine tasks
- φ) Methods for informing contractor employers of hazards their employees may be exposed to while working for ***(Company Name)***.

4. Labels and Other Forms of Warning

Each container of hazardous chemicals shall be labeled, tagged, or otherwise marked with:

- α) The identity of the hazardous chemicals (or chemicals), and,
- β) Appropriate hazard warnings

Labels and other forms of warning shall be legible and in English, and shall be prominently displayed or readily available in the work area during each shift.

5. Material Safety Data Sheet

A material safety data sheet (MSDS) shall be kept for each hazardous chemical known to be present in the workplace.

Material safety data sheets are kept ***(location)*** and are readily accessible by employees during each work shift.

The ***(Job Title)*** is responsible for maintaining the MSDS in a complete and up-to-date manner.

When work is shipped off-site to Vendors, copies of MSDS for any known hazardous chemicals included as part of the products shipped shall be passed along to the Vendor.

6. Training & Information

- a) All employees shall be trained according to a written hazard-communication training plan that is part of the company's overall hazard communication program.
- b) Training shall extend to non-routine tasks, as necessary, and to foreseeable emergencies.
- c) All employees shall be trained on any revisions to this program.

(INSERT COMPANY NAME)

HAZARD COMMUNICATION TRAINING PROGRAM

1. Initial Assignment Information and Training

- a) The **(Insert Job Title)** shall train new employees in hazard communication and protection procedures as part of their general orientation before the new employees begin work.
- b) The **(Job Title)** is responsible for training affected employees whenever new hazardous chemicals are introduced into the workplace. This responsibility extends to provide additional training, as required, for existing employees reassigned into new positions.
- c) All current employees shall be trained in the elements of **(Company Name)** hazard communication program by **(Insert Contract Start Date)**.

2. Curriculum

- a) All employees shall be provided with the following information:
 - 1) Employees shall be informed that **(Company Name)** is required by law to have a chemical hazard communication program.
 - 2) Employees shall be informed of the details of **(Company Name)** chemical hazard communication program including:
 - The location and ready availability of a list of all hazardous chemicals used by the company
 - A list of all hazardous chemicals known to be present in the work area is kept at **(Location)** and is available for review by employees during each work shift
 - The location and ready availability of Material Safety Data Sheets (MSDS) for hazardous chemicals used within the company
 - Specific operations or tasks in the employees' work area that use hazardous chemicals
- b) All employees shall receive training as follows:
 - 1) Employees shall be trained in methods and observations to detect the presence of hazardous chemicals.
 - 2) Employees shall be trained regarding the specific physical and health hazards of known hazardous chemicals in the employees' work area.
 - 3) Employees shall be trained in protective measures including the use of personal protective equipment and protective measures implemented by **(Company Name)**, including work procedures.
 - 4) Employees shall be trained in understanding, interpreting and using hazard information provided on labels and in MSDS.

3. Training Program Completion

All **(Company Name)** employees are required to successfully complete the **(Company Name)** hazard-communications training program. Employees are required to follow safe and healthy work practices as a condition of employment.

4. Non-Routine Tasks:

Training for hazard protection during non-routine tasks is the responsibility of the **(Insert Supervisor or other Job Title)** and shall be provided as needed.

5. Foreseeable Emergencies:

Training for hazard protection during foreseeable emergencies (such as fires, floods, spills, etc.) shall be provided to all affected employees as part of their general safety training.

6. Sub-Contractor Employees

The employer of sub-contractors required to work on this project shall be informed of the hazard communication program. While the sub-contractor is responsible for their own employees' training, **(Company Name)** shall attempt to answer sub-contractor employees' questions about workplace hazards.

The MSDS and list of hazardous materials shall be available to sub-contractor employees as well.

REFERENCES:

29 CFR 1910.1200 – <i>Hazard Communication Program</i>
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Section 6: EMERGENCIES: FIRE, MEDICAL, ENVIRONMENTAL & ACCIDENT INVESTIGATION

(COMPANY LETTERHEAD)

Hazard Control and Implementation Guidelines/Checklists:

The Safety Representative or Alternate shall assume responsibility and ensure that the following guidelines are adhered to for the safeguard of all personnel and the environment:

A. FIRST AID AND MEDICAL ATTENTION:

- The Safety Representative or Alternate shall maintain an adequate sized First Aid Kit onsite.
- The Safety Representative or Alternate shall inform the Tserpes Holding Inc. Project Manager of all injuries immediately.
- For all injuries and illnesses beyond basic first aid, the Safety Representative or Alternate shall immediately report them to **Jamaica Hospital located at 8900 Van Wyck Expressway, Jamaica, NY 11418**. A site-specific map with directions to Jamaica Hospital is attached as an appendix.
- The Safety Representative or Alternate shall ensure that all project personnel are properly trained on site and facility-specific information.
- Only qualified ambulance and Fire Rescue Group personnel shall provide emergency services and medical transportation.

B. FIRE PROTECTION AND PREVENTION:

- Fire extinguishers shall be provided and properly maintained at strategic locations around the job and free access to all fire hydrants of the job site shall be maintained.
- Fire protection equipment shall be provided during any construction activities that may pose a fire hazard, i.e. welding, open flame, cutting & welding, etc., and there shall be one fire extinguisher for each activity.
- **(Insert Company Name)** shall provide fire protection equipment (one fire extinguisher for each 1,500 sq. ft. of floor space).
- All necessary permits, i.e. welding, cutting, etc., shall be obtained and a fire watch program shall be in effect as needed.
- There shall be one fire watch assigned for each open flame operation with no other duties assigned to the person on fire watch.

• In case of any fire notify the NYC Fire Department by calling 911.

- Within **2 hours** of an emergency incident, the Safety Representative shall submit a written report to Tserpes Holding Inc. and the report shall include, as best as can be determined within the two hour period, the following information:
 - Type of fire

- Cause of the fire
- Planned remedial action to prevent any future occurrences
- Nature and outcome of any and all injuries not only personnel, but also to equipment and the project itself

C. ENVIRONMENTAL PROTECTION:

- The use of containment for spill intervention shall be implemented when applicable.
- There shall be proper storage and handling of hazardous materials (all MSDS sheets inclusive).
- There shall be proper documentation of operations, maintenance and repair of equipment.
- Leaking or loose fluid retention systems shall be intercepted via documented daily equipment inspection.
- Roller Compacted Aggregates, Concrete or Blacktop shall be used as the surface for overnight parking, site storage of vehicles or heavy equipment that have the potential to leak.
- **(Company Name)** shall remove all unused chemicals at completion of project and before departing the Tserpes Holding Inc. site.

In the case of a fire, medical emergency, spill response or any other arising emergency the appropriate responding agency shall be immediately contacted by dialing the following number:

911

D. SITE EMERGENCY SIGNALS

- **Building Fire Alarm Bells:**

- Any Activation of fire alarms
- Evacuate the building immediately and report to the outdoor assembly area.

- **Site Sirens:**

- **Continuous** sounding of the site sirens for 5 minutes; Proceed immediately to the designated indoor assembly area, await further instructions which may include the nature of the emergency, the type, sequence and the routes for evacuation.
- **Intermittent** sounding of the site sirens for 5 minutes; Evacuate the site immediately.
- Contractor shall establish an effective means or alerting workers to emergencies

E. Assembly Areas, Evacuation Zones & Routes

- Contractor is to identify and post indoor and outdoor assembly areas locations and evacuation routes from the project site.

F. Accident Investigations

If one or more persons require medical treatment beyond first aid and/or reportable damage to the environment or property has occurred, the Contractor shall immediately notify Tserpes Holding Inc..

Preserving the Scene

The Contractor will secure and preserve the accident scene to the greatest extent possible. Preserving the scene means leaving everything within the vicinity of the accident untouched, the extent possible. Securing and isolating the scene of an incident protects people from any remaining hazards, prevents the scene from being disturbed or altered, and prevents items from being removed from or relocated within the incident scene so that an accurate reconstruction of events is possible. A scene is generally secured by such means as:

- Cordoning the area off with rope, tape, or barricades
- Locking doors and gates
- Posting warning signs
- Using a log to document who can enter the area and their justification for entry
- Posting guards to control and limit access

The Contractor will maintain the security of the scene until Tserpes Holding Inc.'s representative and other qualified responders and subject matter experts can assume control of the scene of an incident.

Interviews

The accident investigator or competent person will need to begin interviewing involved parties and witnesses as soon as possible after the event to collect facts, construct a timeline, and clarify critical elements. The Contractor shall identify witnesses to the accident and ensure that any uninjured parties are available for interview.

If any witnesses are injured or in distress, be sympathetic and do not cause additional distress to find out what happened. Instead, diplomatically collect names and contact information and provide these to the accident investigator or competent person.

Section 7: EXCAVATIONS

(COMPANY LETTERHEAD)

EXAMPLE OF COMPETENT PERSON QUALIFICATION SUBMISSION FOR EXCAVATIONS

(Insert Name) _____ is the designated, qualified, competent person responsible for excavation safety on;

Job Title: _____ Bldg #: _____ Job # _____

(Insert Names) is/are effectively trained, qualified by experience, and fully knowledgeable in excavation hazards, OSHA excavation safety standards, and safe working requirements.

(Insert Names) is fully qualified and responsible for identifying excavation hazards and has authority to take all precautions necessary to protect personnel, property and the environment.

The qualified competent person shall be responsible for:

- Implementing the project-specific excavation plan,
- Making frequent daily physical inspections to verify proper implementation,
- Taking all precautions necessary, up to and including work stoppage,
- Advising Tserpes Holding Inc. and workers on any required changes to the excavation plan,
- Briefing workers on current project-specific excavation hazards prior to start of shift,
- Securing and clearly marking the area during working and non-working hours, and
- Flagrant violation of excavation safety requirements will result in termination.

Company Owner/President/CEO

Date

Note: If excavations will be within the scope of work for the project, a detailed, site-specific excavation plan shall be developed by a competent person and submitted to Tserpes Holding Inc. for acceptance prior to start of excavation. Some elements of an effective plan shall include as a minimum:

EXCAVATION PLAN

- Tserpes Holding Inc. has categorized soil on site as class C, (non-cohesive).
 - All cave-in protection shall conform to the applicable OSHA requirements for Class C soil. Benching is not permitted.
 - Methods intended for supporting existing utilities and maintaining surface appurtenances such as roadways, sidewalks, and other anticipated surface encumbrances is defined herein..
- Excavations that are less than 5 feet (1.52m) in depth and physical examination of the ground by the qualified competent person provides no indication of any potential cave-in or soil movement, shoring or sloping is not required **providing conditions do not change**.
 - Where the competent person finds there is **any** potential risk of cave-in, and sloping is to be used solely as cave-in protection, the slopes shall be no greater than one to one and one-half, rise to run, or approximately 34 degrees from the horizontal. Note: Class C soil cannot be benched.
- Satisfactory lumber/timber shall be used, i.e. badly cracked/broken timber shall not be used for bracing or support of excavations.
 - An adequate number of ladders shall be present in the excavation for access. OSHA requires no more than 25 feet of lateral travel between ladders. Ladders must extend 36" above the top surface of the excavation and used in accordance with the manufacturer's instructions.
 - Excavated materials shall be placed away from excavation cut a minimum of 2' in order to decrease additional loading on the support system as well as decreasing potential for excavated material to slough off into the cut.
 - Daily, **documented**, inspections shall be done by the excavation competent person to monitor the condition of the support system.
 - A plan for proper de-watering and an excavation plan that fully describes the method used to protect workers from cave-in shall be submitted for review and acceptance by Tserpes Holding Inc..
 - Proper permits shall be filled out and approved before beginning work (i.e. digging, confined space entry permits, etc.)
 - There shall be barricading to eliminate the potential of vehicles or personnel from falling into the excavated site.
 - A rigging plan for materials in and around the excavation shall be submitted for review and approval.
 - Excavations shall be effectively barricaded to prevent unauthorized entry.
 - Earth ramps shall be constructed in soil so a person can exit the excavation while standing upright.

CAVE-IN PROTECTION EQUIPMENT

- Cave-in protection equipment shall be provided at 5 ft in depth and examination of the soil/ground by a competent person provides no indication of a potential cave-in or soil movement.
- For excavations greater than 20 feet in depth, the protective systems shall be designed and approved by a registered professional engineer with a specialty in soil mechanics. Where shoring, shielding or systems other than sloping are proposed, there shall be a submittal of manufacturer's or engineer's data on the system to be used, the depths of the excavations where it shall be applied, and the system configurations to be utilized.
- The soil for this project is type Class C. All cave-in protection shall conform to the applicable OSHA requirements for Class C soil.
- Failure to have a "qualified competent person" present during excavation work will result in the work being stopped.

REFERENCES:

29 CFR 1926 Subpart P - Excavations

Section 8: CONCRETE AND MASONRY PENETRATIONS

(COMPANY LETTERHEAD)

PERMITS:

- All concrete and masonry penetrations shall be performed in accordance with NYCDOB Directorates which require that a completed permit be in place at the jobsite prior to penetrations being made.

- A Lockout/Tagout Program shall be submitted and accepted if utilities must be shutdown to safely perform the work.

- There are hazards associated in the scope of many construction activities. One such hazard is the generation of respirable dusts i.e. silica during horizontal concrete penetrations. Respiratory protection shall be evaluated and documented for use by the contractor Industrial Hygiene group during these and other activities throughout the course of a project.

REFERENCES:

29 CFR 1926 Subpart Q – Concrete and Masonry
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Section 9: ELECTRICAL SAFETY

(COMPANY LETTERHEAD)

ELECTRICAL SAFETY PROGRAM & SAFEGUARD CHECKLIST:

- Electrical dangers and improper electrical conditions, when observed, shall be corrected immediately.
- Use of the following equipment is prohibited by all personnel.
 - Metal ladders used while performing energized electrical work
 - Damaged or defective equipment, such as frayed extension cords, missing grounding pins, etc.
 - Not using equipment as designed or required by manufacturer such as daisy-chaining of electrical cords, indoor use only component being used outdoors, not protecting cords from physical damage, pinch points, (run through doorways), improperly strung in corridors, etc.
- All personnel shall be protected from such electrical hazards:
 - Exposed live electrical parts
 - Ungrounded electrical equipment (double insulated tools are acceptable)
 - Unprotected electrical cords, (ground not continuous).
 - Non-GFCI protected equipment
- Daily tests and inspections by a qualified person on the following construction equipment shall be made to ensure it is safe, free from defects, and functioning properly, (as intended):
 - Lighting and illumination equipment
 - Power and Electrical Equipment
 - GFCIs
 - Portable electric tools and cords
 - Extension cords
- Safety Representatives or Alternate shall ensure that all project personnel are instructed to inspect power tools prior to each use to ensure tools are in proper operating condition.
- Immediately tag out and remove all equipment found to be defective for repair or replacement.
- A Control Zone shall be utilized to protect personnel who may accidentally encounter exposed energized components because of a lack of knowledge or awareness of the hazards.
- Personnel who may accidentally come in contact with energized circuits while working within a Control Zone shall be protected by the following:
 - Training in accordance with appropriate procedures,
 - Lockout and Tagout,
 - A suitable barricade, signs and
 - Personal Protective Equipment appropriate for the task
- Equipment failure shall be prevented by proper maintenance and inspection of all electrical equipment and other equipment/tools coming into contact with electric equipment/sources.

REFERENCES:

29 CFR 1926 Subpart K – Electrical Safety 29 CFR 1910 Subpart S – Electrical Safety NFPA 70E – Standard for Electrical Safety in the Workplace
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EXAMPLE OF PERIODIC INSPECTION CHECKLIST

DATE OF INSPECTION ___/___/___ TIME OF INSPECTION _____

NAME OF INSPECTOR _____

NAME OF EMPLOYEE BEING INSPECTED _____

DATE OF ORIGINAL TRAINING ___/___/___

DEPARTMENT WHERE WORKING _____

MACHINE OR EQUIPMENT _____

DEVIATIONS OR INADEQUACIES OBSERVED DURING THE INSPECTION:

REVIEW CONDUCTED OF EMPLOYEE'S RESPONSIBILITIES? Yes___ No___

INITIAL TRAINING TO BE REPEATED? Yes___ No___

THE SIGNATURES BELOW CERTIFY THAT A PERIODIC INSPECTION HAS BEEN PERFORMED, AND COMPLETED.

INSPECTOR _____ EMPLOYEE _____

EXAMPLE OF SAFETY MASTERCARD

Name of Equipment: _____ Operator: _____
Job Requested by: _____ Department: _____
Ready for Service Check-Off: _____

Job Description: _____

Reason for Job: _____

Operations: _____

Operations Lock No	Location of Lock/Tag w/Hasp	Lock-out or Tag-out	Test Isolation	Job Complete Signoff

Serviceperson: _____

Sample -TESTING, TROUBLESHOOTING, AND VOLTAGE MEASURING ELECTRICAL WORK PERMIT
Contractor: _____ Permit # 2009-1

PART I: TO BE COMPLETED BY THE REQUESTER:

- (1) Description of circuit/equipment/job location: Various electrical equipment with a listed Hazard/Risk Category up to 1 (2) Description of work to be done: LOTO, testing, troubleshooting, or diagnosing equipment
- (3) Justification of why the circuit/equipment cannot be de-energized or the work deferred until the next scheduled outage: Testing, troubleshooting, diagnosing, and zero-voltage testing are required to be performed energized. Tserpes Holding Inc. Supervisor must be notified prior to work

Company President

Date

PART II: HAZARD ANALYSIS:

- (1) Detailed job description procedure to be used in performing the above detailed work: Notify affected workers. LOTO all sources of hazardous energy unnecessary to complete work, cordon off work area, while wearing PPE listed below perform work to complete task.
- (2) Description of the Safe Work Practices to be employed: LOTO Reason not to LOTO Work is required to be performed energized

(3)

Flash Boundary	4 ft.	Flash Hazard	1	Working Distance	18"
Shock Hazard	Up to 480 volt	Limited Approach Restricted Approach Prohibited Approach	3'5" Avoid contact	Glove Class	00

(4) Protective Equipment

<input type="checkbox"/> None	<input type="checkbox"/> Earplugs	<input type="checkbox"/> Leather Gloves as required	<input type="checkbox"/> Leather Shoes as needed
<input type="checkbox"/> Cotton Clothing	<input type="checkbox"/> Face shield	<input type="checkbox"/> Voltage-rated Gloves	<input type="checkbox"/> Voltage-rated Shoes
<input type="checkbox"/> Fr Clothing	<input type="checkbox"/> Flash suit	<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Safety Glasses

- (5) Means employed to restrict the access of unqualified persons from the work area: barrier tape, barricade, or attendant

PART III: APPROVAL(S) TO PERFORM THE WORK WHILE ELECTRICALLY ENERGIZED:

Group Leader/Job Supervisor/Company President

Date

PART IV: WORK

Job Briefing must be performed including discussion of any job-related hazards to include:
 Daily pre-work briefing
 Post work feedback during weekly toolbox

PART V: The following AUTHORIZED WORKERS are Qualified Persons trained in emergency procedures per NEC70E :

Name	Life #	Name	Life #
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Authorizing Supervisor/Company President

Date

Supervisor acknowledges the above personnel are properly trained, knowledgeable and experienced to work under the permit.

Forward a copy to Tserpes Holding Inc. contact.

Sample - TESTING, TROUBLESHOOTING, AND VOLTAGE MEASURING ELECTRICAL WORK PERMIT

Contractor:

Permit # 2009-2

PART I: TO BE COMPLETED BY THE REQUESTER:

- (1) Description of circuit/equipment/job location: Various electrical equipment with a labeled Hazard/Risk Category up to 2* or, if there is no arc flash hazard label, tasks on attached list with a Hazard/Risk Category #2
- (2) Description of work to be done: LOTO, testing, troubleshooting, or diagnosing equipment
- (3) Justification of why the circuit/equipment cannot be de-energized or the work deferred until the next scheduled outage: Testing, troubleshooting, diagnosing, and zero-voltage testing are required to be performed energized. Tserpes Holding Inc. Supervisor must be notified prior to work.

Company President

Date

PART II: HAZARD ANALYSIS:

- (1) Detailed job description procedure to be used in performing the above detailed work: Notify affected workers, LOTO all sources of hazardous energy unnecessary to complete work, cordon off work area, while wearing PPE listed below perform work to complete task.

- (2) Description of the Safe Work Practices to be employed: LOTO Reason not to LOTO Work is required to be performed energized

(3) Flash Boundary	4 ft.	Flash Hazard	2*	Working Distance	18"
Shock Hazard	Up to 480 V	Limited Approach Restricted Approach Prohibited Approach	3'5" 1'-0" 0'-1"	Glove Class	00

- (4) Protective Equipment

<input type="checkbox"/> None	<input type="checkbox"/> Earplugs	<input type="checkbox"/> Leather Gloves	<input type="checkbox"/> Leather Shoes
<input type="checkbox"/> Cotton Clothing	<input type="checkbox"/> Face shield	<input type="checkbox"/> Voltage-rated Gloves	<input type="checkbox"/> Voltage-rated Shoes
<input type="checkbox"/> Fr Clothing	<input type="checkbox"/> Flash suit	<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Safety Glasses/Goggles
	<input type="checkbox"/> Balaclava		

- (5) Means employed to restrict the access of unqualified persons from the work area: barrier tape, barricade, or attendant

PART III: APPROVAL(S) TO PERFORM THE WORK WHILE ELECTRICALLY ENERGIZED:

Group Leader/Job Supervisor/Company President

Date

PART IV: WORK

Job Briefing must be performed including discussion of any job-related hazards to include:
Daily pre-work briefing
Post work feedback at weekly toolbox

PART V: The following AUTHORIZED WORKERS are Qualified Persons trained in emergency procedures per NEC70E :

Name	Life #	Name	Life #
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Authorizing Supervisor/Company President

Date

Supervisor acknowledges the above personnel are properly trained, knowledgeable and experienced to work under the permit.

Forward a copy to Tserpes Holding Inc. contact.

Sample -TESTING, TROUBLESHOOTING, AND VOLTAGE MEASURING ELECTRICAL WORK PERMIT

Contractor: _____

Permit #: _____

PART I: TO BE COMPLETED BY THE REQUESTER:

- (1) Description of circuit/equipment/job location: Various electrical equipment with a labeled Hazard/Risk Category up to 4 or, if there is no arc flash hazard label, tasks on attached list with a Hazard/Risk Category 4
- (2) Description of work to be done: LOTO, testing, troubleshooting, or diagnosing equipment
- (3) Justification of why the circuit/equipment cannot be de-energized or the work deferred until the next scheduled outage: Testing, troubleshooting, diagnosing, and zero-voltage testing are required to be performed energized. Tserpes Holding Inc. Supervisor must be notified prior to work

Company President

Date

PART II: HAZARD ANALYSIS:

- (1) Detailed job description procedure to be used in performing the above detailed work: Notify affected workers, LOTO all sources of hazardous energy unnecessary to complete work, cordon off work area, while wearing PPE listed below perform work to complete task.
- (2) Description of the Safe Work Practices to be employed: LOTO Reason not to LOTO Work is required to be performed energized

(3)

Flash Boundary	4 ft.	Flash Hazard	4	Working Distance	18"
Shock Hazard	Up to 480 V	Limited Approach Restricted Approach Prohibited Approach	3'-6" 1'-0" 0'-1"	Glove Class	00

(4) Protective Equipment

<input type="checkbox"/> None	<input type="checkbox"/> Earplugs	<input type="checkbox"/> Leather Gloves	<input type="checkbox"/> Leather Shoes
<input type="checkbox"/> Cotton Clothing	<input type="checkbox"/> Face shield	<input type="checkbox"/> Voltage-rated Gloves	<input type="checkbox"/> Voltage-rated Shoes
<input type="checkbox"/> Fr Clothing	<input type="checkbox"/> Flash suit	<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Safety Glasses/Goggles
	<input type="checkbox"/> Balaclava	<input type="checkbox"/> double-layer switching hood	

- (5) Means employed to restrict the access of unqualified persons from the work area: barrier tape, barricade, or attendant

PART III: APPROVAL(S) TO PERFORM THE WORK WHILE ELECTRICALLY ENERGIZED:

Group Leader/Job Supervisor/Company President

Date

PART IV: WORK

Job Briefing must be performed including discussion of any job-related hazards to include:
Daily pre-work briefing
Post work feedback at weekly toolbox

PART V: The following AUTHORIZED WORKERS are Qualified Persons trained in emergency procedures per NEC70E :

Name	Life #	Name	Life #
_____	_____	_____	_____
_____	_____	_____	_____

Authorizing Supervisor/Company President

Date

Supervisor acknowledges the above personnel are properly trained, knowledgeable and experienced to work under the permit.

Forward a copy to Tserpes Holding Inc. contact.

Section 10: MOBILE EQUIPMENT PROGRAM

(COMPANY LETTERHEAD)

SAFE OPERATION AND MAINTENANCE:

Prior to the use of motor vehicles or mobile equipment on Tserpes Holding Inc. property, this plan shall be discussed with all employees, including subcontractor employees, concerning the scope of work to be accomplished, and the methods to accomplish that work safely as outlined in the task specific Phase Hazard Analysis, (PHA).

The supervisor, foreman, or safety representative shall verify that all vehicles and mobile equipment have been inspected and maintained at the **beginning of each shift** to assure all parts, equipment and accessories affecting safe operation are in proper operating condition and free from defects. Inspection and maintenance shall include:

- Operator License, Certification, or other documented Qualifications
- Backup alarms, equipment warning horn
- Rollover Protective Structures (ROPS)
- Lighting
- Cab Glass
- Fluid Levels
- Leak/Spill Containment and Cleanup Equipment, Procedures and Training
- Service brakes, Parking Brake
- Restraint devices, (Seat Belts)
- Traffic Safety Requirements
 - Spotters
 - Portable fire extinguisher
 - Cones/barricades/berms/stop logs
 - Trained Flagging Personnel
 - Traffic Warning and Information Signs cited by OSHA and specified by the Manual Uniform Traffic Control Devices (MUTCD).
 - Emergency Signals
 - Work Plan, (PHA)
 - Traffic Diversion Plan, (Maintenance of Traffic).
 - Approvals from Local Authorities and Agencies

All defects shall be corrected before placing vehicle/equipment in service.

Employees shall not operate vehicles or mobile equipment with an obstructed view to the rear without a reverse signal alarm distinguishable from the surrounding noise level unless an observer signals that it is safe to do so.

**THE OPERATOR SHALL IMMEDIATELY STOP THE VEHICLE OR MOBILE EQUIPMENT IF
HE/SHE
LOSES SIGHT OF THE OBSERVER**

All vehicles and equipment shall be maintained in a leak free condition. Effective secondary containment methods shall be employed to prevent any leakage onto soil. Fittings and hoses shall be frequently inspected for tightness, proper seal, deterioration, or loss of leak-tight integrity.

All personnel shall know the emergency stop signal and shall use it in the event of, or potential for, imminent danger or violation of a radiological requirement. When feasible, ground personnel, spotters,

supervisors, and safety representatives shall carry air horns as an established emergency stop signal for all equipment.

Every attempt shall be made to establish and maintain equipment operations a safe distance away from ground personnel or other equipment that may be adversely impacted by the operation of mobile equipment. Safe work zones shall be established to prohibit personnel from being within the range of motion of equipment, material being manipulated or carried by equipment, or material or structures that could potentially become entangled or disturbed by equipment. In any area, personnel shall not approach equipment from within the range of motion defined above without the operator's knowledge and consent.

If required to work within the range of motion of equipment or materials, personnel shall attend daily toolbox discussions/briefings with operators to define the day's plan for accomplishing the work, and individual responsibilities and work locations. Methods for maintaining communication via visual contact, hand signals, and the use of air horns shall be established for and understood by all affected personnel. Personnel working within the range of motion of equipment or materials shall maintain communication with equipment operators at all times as discussed at the daily toolbox meeting. All personnel exposed to mobile equipment or vehicles of any type or at any time, shall wear high visibility clothing.

Machinery, equipment, or parts thereof, which are suspended or held aloft, shall be substantially blocked to prevent falling or shifting while personnel are working on, around, or between them. Vehicles and equipment shall be maintained and repaired at our company shop, never on the customer's property.

Equipment or rigging components shall not be modified without the Manufacturer's written consent which a copy will then be maintained on the job site for review by Tserpes Holding Inc..

Free rigging off the tines of Forklifts is a violation of OSHA requirements and is prohibited.

Suspect/Counterfeit rigging components are a know hazard in the construction industry. All rigging items brought onto the site shall be inspected by the Tserpes Holding Inc. Hoisting & Rigging Inspector before being placed into initial service, and by a qualified person on a regular basis thereafter..

REFERENCES:

29 CFR 1926 Subpart O – Motor Vehicles, Mechanized Equipment, and Marine Operations

Note: If hoisting & rigging will be within the scope of work for the project, a detailed, site-specific rigging plan shall be developed by a qualified person and submitted to the Tserpes Holding Inc. Hoisting & Rigging Inspector for review and acceptance at least 4 working days prior to the planned lift. All lifting equipment and operations must be conducted in accordance with applicable ANSI standards and DOE and OSHA requirements. Some elements of an effective plan shall include as a minimum:

EXAMPLE OF RIGGING PLAN

Building #: _____ **Work Location:** _____ **Job #:** _____

Project Title: _____ **Project Engineer:** _____

Mobile Crane Operations: (Descriptive Drawing - Sketch w/measurements of pre- and post-lift locations any encumbrances/clearances, crane capacities at working radius, impact on utilities (contact MMC @ ext 2468) include protective measures where required.)

Crane Operators: Licensed by the **NYS Dept of Labor**, qualified for the specific type of equipment to be used.

Mobile Crane Inspection Documentation: (Include copies of the crane load charts (as planned set up), plus documentation of latest crane inspections (annual & monthly) along with rigging plan.)

Total Weight of Lift: (includes load weight, all rigging equipment, & load block)

Description of Material to be Lifted w/Dimensions, Center of Gravity:

Tag lines and locations of attendants:

Pre-lift Meeting: (Documented, attendees, content)

Designated Signal Person:

Designated Person In Charge (PIC):

Communication and Signals: (Hand signals, emergency signal, voice communication.)

Describe Method of Accomplishment: (provide a written description of the operation. All lifting operations must be conducted in accordance with ANSI standards and the DOE and OSHA requirements.)

REFERENCES:

29 CFR 1926 Subpart H – Material Handling, Storage, Use and Disposal

EXAMPLE OF RIGGING PLAN WORKSHEET

(INSERT NAME OF CONTRACTOR)

Building #: _____ Job #: _____ Project Title: _____
Location: _____

Note: All lifting operations shall be conducted in accordance with applicable ANSI standards and DOE and OSHA requirements.

Equipment List						
Equipment List	Type	Qty.	Dimensions	Capacity	Configuration	Load
Slings						
Shackles						
Roller/Skates						
Jacks						
Cribbing/Shoring						
Hoist						
Lifting Vehicles						
PPE/HAZMAT						
Transport Vehicles						

REQUIREMENTS FOR SITE-CLEARING PLAN

The following must be included when developing a site-clearing plan:

Person in Charge (PIC)

- Name
- Phone or pager #'s
- Qualifications and experience include any safety training received.

Daily Pre-clearing site evaluation

- Existing encumbrances, appurtenances, or other obstacles.
- Changes in site conditions or other trade activities.
- Installation and continuing maintenance of silt fences throughout project.

Coordination with other trades

- Site access control, area marked, fenced, or otherwise identified.

Communication and Signals

- Hand signals
- Emergency signal
- Voice communication.

Equipment inspection and maintenance

Inspect equipment daily or before each use for:

- Safety guards and features in good condition and working order; i.e. kickback protection ROPS/FOPS, PPE, alarms, seatbelt, vehicle horns, service brakes, parking Brake, cab glass, etc.

Daily Pre-clearing site evaluation - Existing encumbrances, appurtenances, other obstacles, changes in site conditions, or other trade activities.

Coordination with other trades - Site access control, area marked, fenced, or otherwise identified.

Communication and Signals - Hand signals (see chart), emergency signal, voice communication.

Training- Initial, ongoing, weekly toolbox talks, daily operations plan.

Equipment inspection and maintenance - Inspect equipment daily or before each use for safety guards and features in good condition and working order; i.e. kickback protection, ROPS/FOPS, PPE, alarms, cab glass, etc.

Requirements:

- Descriptive Drawing - Sketch of site to be cleared showing beginning and ending locations or areas of concentration, direction of work to progress, locations of clearing operations (generic if no unusual circumstances expected, or specific for areas requiring operational changes to accommodate existing or future obstacles or site conditions), safe working distances or radii, material handling/trucking routes (generic and specific), traffic signs as stipulated in the Manual Uniform Traffic Control Devices (MUTCD), material staging and processing areas, silt fences, telephone, sanitation supplies, lunch/break areas.
- Describe Method of Accomplishment - A written description of the operations, the personnel performing them and their sequence, i.e. felling, limbing, bucking, skidding, chipping, loading, cabling, etc. is attached. All clearing operations must be conducted in accordance with ANSI and OSHA requirements.

EXAMPLE OF SITE-CLEARING PLAN WORKSHEET

(INSERT NAME OF CONTRACTOR)

Building #: _____ Job #: _____ Project Title: _____
Location: _____

Note: All tree felling, cutting, handling, and chipping operations shall be conducted in accordance with applicable ANSI standards and OSHA requirements.

Equipment List						
Equipment List	Type	Qty.	Operator(s)	Capacity	Configuration	Load
Saws						
Loaders						
Skidders						
Chippers						
Trucks						
Transport Vehicles						
Slings/Cables						
Other						

I (Insert name) ensure that all rigging hardware and slings will be in accordance with the OSHA, ASME and Tserpes Holding Inc. Lifting Safety Subject Area requirements for inspection and load test.

Submitted by: _____ Date Submitted: _____

Approved: YES NO Reviewed by: _____

Reason for Rejection:

Note: If conventional fall protection measures cannot be used (i.e. guardrails, safety nets, catch platforms), then a site-specific written fall protection program shall be developed by a qualified person submitted to Tserpes Holding Inc. for review and acceptance prior to commencement of working at heights 6' and above. Some elements of an effective plan shall include as a minimum:

Section 11: FALL PROTECTION

(COMPANY LETTERHEAD)

General:

- Each employee on a working/walking surface **6 feet or more** above a lower level shall be protected from falling by **a guardrail system, a safety net system, or personal fall arrest system**. Where a guardrail system is employed, and a controlled access zone has been established for leading edge work, the control line may be used in lieu of a guardrail system along the edge that parallels the leading edge as described in the written and accepted, site specific, fall protection program.
- Guardrails shall be constructed at all floors, wall openings, or roof openings if these openings cannot be covered. Guardrails shall be constructed at all elevator shafts and stairwells.
- All fall protection equipment in use shall be inspected daily before use by a qualified person.

Observe any possibilities of elevated falls:

Ladders:

- Ladders shall be used in accordance with manufacturer's instructions.
- There shall be careful observation of and advising to all personnel on proper use of ladders, slope of ladders, height above elevation levels, conditions of ladders.
- Ladders shall be properly inspected by a qualified person to make sure that the following conditions are not encountered:
 - Broken rungs or missing steps
 - Improperly secured and erection of ladder
 - Improper ladders used (i.e. using metal ladders for electrical work)
 - Poorly constructed man-made ladders
 - Used in accordance with the manufacturer's instructions
 - Painted surfaces which cover up defects
- Use of ladders with broken/missing rungs or steps, broken/split side rails or other faulty or defective construction is prohibited. If ladders are defective they shall be marked "Do Not Use" and removed from the site.
- Ladders shall extend at least 36" above the landing and shall be tied-off to prevent accidental displacement. To minimize fall exposures, use of ladder extensions are encouraged. Step ladders shall only be used in the full open position with side brackets locked.
- For man-made (not commercially purchased) ladders, the following criteria shall be included in their construction, as specified by OSHA:
 - Width of single cleat ladders shall be between 15 and 20 inches.

- Cleats shall be uniformly spaced, 12 inches, top to top. Filler blocks must be used between the cleats.
- A nominal dimension of two-inch by four-inch lumber shall be used for side rails up to 16 feet long

Scaffolds: (Submit the completed Scaffold Training Session Acknowledge Sheet with this HASP)

- Scaffolds shall be plumbed level and properly erected, maintained and guarded; and working surfaces shall be fully planked, equipped with guardrails, and set on sound, rigid footing. Toe boards are required on walking/working surfaces where there is a potential for tools and equipment to fall off.
- All scaffolds used on this job shall be designed by (Name of Competent and Qualified Person) and constructed and loaded in accordance with that design.
- Each employee who works on the scaffold shall be trained by a competent person to recognize the hazards associated with the type of scaffold in use and to understand the procedures to control or minimize those hazards, training shall be documented, and the records continuously updated as necessary and maintained on the project.
- Employees who are observed/discovered standing on guardrails, or tied off to unapproved guardrails or other components will be immediately terminated for cause, (zero tolerance).
- (Company) shall have each employee who is involved in erecting, disassembling, moving, operating, repairing, maintaining, or inspecting a scaffold trained by (Name of Competent & Qualified Person) to recognize any hazards associated with that work.
- Scaffolds and scaffold components shall be inspected for visible defects by a competent person before assembly and then before each work shift, and after any occurrence which could affect a scaffold's structural integrity. Tags shall be affixed to the scaffold showing proof of daily inspections.
- For this project, the type of scaffold to be used is (Insert the type of scaffold) and it conforms to the requirements of (Insert appropriate 29 CFR 1926 Subpart L Section)

References:

29 CFR 1926 Subpart L	Scaffolds
29 CFR 1926 Subpart M	Fall Protection
29 CFR 1926 Subpart X	Stairways and Ladders
Tserpes Holding Inc. SBMS Fall Protection Subject Area	

SECTION 12: LOCK-OUT/TAG-OUT PROGRAM

POLICY:

This document defines lock-out/tag-out, list specific procedures to follow to properly lock-out/tag-out, define responsibility for lock-out/tag-out, and show the importance of both education and discipline in these procedures.

INTRODUCTION:

Lockout/tag out (LOTO) refers to specific practices and procedures to safeguard employees from injury due to the unexpected energization or startup of machinery and equipment, or the release of hazardous energy during operations, service, or maintenance activities.

These may include:

- Gravity
- Electrical
- Mechanical
- Chemical
- Hydraulic
- Pneumatic
- Thermal
- Radiological

RESPONSIBILITY:

It is the responsibility of the ***(Name of Responsible Individual)*** to enforce the lock-out/tag-out procedure as well as provide the necessary equipment to comply in all respects with the procedure. Transferred employees shall be instructed by their supervisor in the purpose and use of lock-out/tag-out procedure. Supervisors shall be responsible for enforcing the specific lock-out/tag-out procedures.

1. No locks shall be removed from equipment without first consulting the Tserpes Holding Inc. Project Manager.
2. A lock-out/tag-out continued from one shift to the next shall be the responsibility of the craftsmen involved to remove the appropriate lock and replace it with a new one.
3. If more than one individual is required to lock-out or tag-out equipment, each shall place their own lock or tag on the affected equipment in such a way as to be certain the equipment is locked out. If the affected equipment cannot accept multiple locks or tags, a multiple lock-out or tag-out hasp shall be used.

EQUIPMENT:

Equipment shall consist of the following:

1. Padlocks – Master brand only with a red band. Provide sufficient quantities of padlocks, each lock to have an individual key, and one master key controlled by ***(Name of Responsible Individual)***.
2. Multiple Lock Tongues and Lock Boxes - to be used in case more than one person or group is involved in a job.
3. Danger/Warning Tags and Log Book- to be used whenever lockout/tag out is used to control hazardous energy. Tags shall be compliant with ANSI 535.5 Log Book compliant with the SBMS.

4. Equipment shall be distributed and controlled by ***(Name of Responsible Individual)***.

WHEN TO LOCKOUT/TAGOUT:

Lock-out/tag-out procedures shall be used:

Anytime there is danger of injury from an unexpected release of energy.

In Section 16, of the Phase Hazard Analysis, contractors of any tier must identify specific hazardous energy sources and their controls.

A LOCK-OUT is simply a locking device, such as a padlock, placed on a power source to prevent the release of hazardous energy that could set a machine in motion or otherwise endanger an employee working on the machine. Locks may be used with a lock-out device that holds an energy control point, such as a switch, lever or valve, in the off position, making it impossible to operate.

A TAG-OUT is a written warning telling all others not to operate a switch or valve that could release hazardous energy or set a machine in motion. The tag-out is placed prominently on the switch or lever so as not to be missed.

LOCKOUT/TAG-OUT PROCEDURES:

The following are specific procedures to be followed for lockout/tag out:

1. ***(Name of Responsible Individual)*** shall contact the Tserpes Holding Inc. Project Contact Person for information of known hazards related to the Contractors work.
2. ***(Name of Responsible Individual)*** shall discipline workers when informed of observed violations of lockout/tag out by Tserpes Holding Inc. Contact Person.
3. ***(Name of Responsible Individual)*** shall identify all lockout/tag out qualified persons who are trained and knowledgeable in the requirements of Lockout/Tag out and trained to recognize and avoid the hazards that might be present.
4. ***(Name of Responsible Individual)*** shall train unqualified persons on the requirements of the lockout/tag out procedures for unqualified persons.
5. ***(Name of Authorized Individual)*** shall be authorized by Company for testing <600 volts on energized equipment or conductors, in writing and a written copy given to the Tserpes Holding Inc. Contact Person.

NOTE: Only immediate Tserpes Holding Inc. Contact Person (Supervisor) and 2 knowledgeable persons are to authorize emergency removal of a lock or tag. An attempt must be made to notify the individual who applied the tag. After removal tag must be signed by the 3 individuals and logged.

6. Equipment startup. ***(Name of Responsible Individual)*** shall make a final safety check before restarting equipment, to be certain it is safe to operate. Make sure of the following:
 - a. All tools and other items have been removed.
 - b. All machine guards are returned to their proper position.
 - c. All electric, hydraulic, pneumatic or other systems are properly reconnected.
 - d. All employees are clear of equipment.
 - e. Work has been inspected by the Tserpes Holding Inc. Electrical Inspector.

Many of the lock-out/tag-out procedures appear to be common sense, and they are. Following them will ensure safe operation calibration, maintenance and repair of equipment and/or processes, without dangerous surprises or injury.

REFERENCES:

29 CFR 1910.147	Control of Hazardous Energy (Lockout/Tag out)
29 CFR 1926.417	Lock-out and Tagging of Circuits
NFPA 70E	Standard for Electrical Safety in the Workplace

Section 13: HOT WORK, WELDING, CUTTING, GRINDING, OPEN FLAME OPERATIONS

(COMPANY LETTERHEAD)

HOT WORK PERMIT:

- Proper cutting/welding permits shall be obtained from the Tserpes Holding Inc. Construction Inspector. The contractor will participate in the review for the permit and comply with all requirements on the permit. Cease operations if permit conditions cannot be met.
- Requirements of the SBMS Fire Safety Subject Area shall be observed.

Hot Work Permits are required for:

1. Welding and allied processes;
 2. Heat treating by use of open flame;
 3. Grinding;
 4. Thawing pipe by open flame or resistance from electrical current flowing through the pipe;
 5. Powder-driven anchors;
 6. Hot riveting;
 7. Thermite welding;
 8. Brazing, braze welding, silver solder and soldering;
 9. Similar applications producing or using a spark, flame, or heat.
- Participate in the review for the permit and comply with all requirements on the permit. Cease operations if permit conditions cannot be met.
 - Preventing fires in all areas of the Job Site
 - Assessing the risk from fire within individual work areas by use of a PHA
 - Ensuring safe egress from facilities
 - Installing, inspecting, and maintaining fire suppression, fire detection, fire walls and fire doors
 - Designing, installing, modifying, and documenting fire detection and suppression systems
 - Minimizing the chance of a fire started by or accelerated with the use of flammable or combustible liquids, pyrophoric materials and combustible metals, hydrogen, and oxidizers
 - Proper separation, securing and storage of gas cylinders
 - Notification shall be made to Tserpes Holding, Inc. and a permit obtained 24 hours prior to work commencing.
 - A dedicated, trained, fire watch and the suitable fire extinguisher for the cutting/welding operation shall be provided and maintained until 60 minutes after the hot work is completed (or as specified on the Hot Work Permit for the job). This includes break and lunch periods. For a complete listing

of required precautions, consult the Hot Work Permit. If there is a need to resolve conditions, contact the Tserpes Holding Inc. Construction Inspector for assistance.

- Maintain proper PPE during all Hot Work operations

Example of the daily checklist required to be completed by the contractor:

Daily Checklist to Review Area for Fire Prevention During Welding, Cutting, and Other Hot Work

Supervisor completing the checklist: _____ **Date** _____

Item	Yes	No	N/A
All combustibles must be relocated at least 35 ft in all directions from the work site and the following criteria also must be met:			
Where the combustible materials, such as paper clippings, wood shavings, or textile fibers, are on the floor, the floor is swept clean for a radius of 11 m (35 ft).			
Ducts and conveyor systems within 35 ft that might carry sparks to distant combustibles are shielded, or shut down, or both			
Combustible floors (except wood on concrete) within 35 ft are kept wet, covered with damp sand, or protected by noncombustible or fire-retardant shields			
If relocation is impractical, combustibles are protected with fire-retardant covers or otherwise shielded with metal or fire-retardant guards or curtains			
Where floors have been wet down, personnel operating are welding equipment or cutting equipment are protected from possible shock			
If hot work is done near walls, partitions, ceilings, or roofs of combustible construction, fire retardant shields or guards should be used to prevent ignition of pipes or other metal that are in contact with combustible walls, partitions, ceilings, roofs, or other combustibles. Hot Work should not be done if the work is close enough to cause ignition by heat conduction unless the following criteria are met:			
a) Precautions are taken to prevent ignition of combustibles on the other side by relocating the combustibles.			
b) If it is impractical to relocate combustibles, a fire watch is provided on the side opposite from where the work is being performed			
Hot work must not be attempted on a partition, wall, ceiling, or roof that has a combustible covering or insulation, or on walls or partitions of combustible sandwich-type panel construction			
Fully charged and operable fire extinguishers that are appropriate for the type of possible fire are available immediately at the work area			
During hot work, consideration and special precautions are to be taken to avoid accidental operation of automatic fire detection or suppression systems due to the proximity of the hot work. Special extinguishing systems, sprinklers, or detection systems may require impairment.			
Nearby personnel are suitable protected against dangers such as heat, sparks, and slag?			
Changes in local conditions may affect the length of the period for which the hot work permit is valid. Review local conditions after any changes. Changes affecting the above stated criteria should result in work ceasing until a new permit is issued			
Upon review of the hot work, with a knowledgeable Work Planner and concurrence of the person issuing the Hot Work Permit, the 4-hour final monitor requirement may be modified based on circumstances using a graded approach. This is to be noted in the "Other Precautions Area" of the Hot Work Permit.			

REFERENCES:

29 CFR 1926 Subpart J – Welding and Cutting Tserpes Holding Inc. Fire Safety Subject Area
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Section 14: CONFINED SPACE ENTRY

(COMPANY LETTERHEAD)

DEFINITION OF A CONFINED SPACE:

A confined space meets the following physical characteristics:

1. Is large enough and so configured that personnel can bodily enter and perform assigned work;
2. Has limited or restricted means for entry or exit (e.g., tanks, vessels, silos, storage bins, hoppers, vaults, and pits);
3. Is not designed for continuous personnel occupancy.

Confined Space Entry

This subject area describes restrictions and requirements for entry certification and confined space entry permits for compliance with 29 CFR 1910.146, Permit-required Confined Spaces.

Section 15: RESPIRATORY PROTECTION AND EXPOSURE MONITORING

(COMPANY LETTERHEAD)

RESPIRATORY PROTECTION

- Respirators, applicable and suitable for the purpose intended, shall be provided by the employer when such equipment is necessary to protect the health of the employee.
- The employer is responsible for establishing and maintaining a respiratory protection program in accordance with OSHA regulations.
- There are hazards associated in the scope of many construction activities. One such hazard is the generation of respirable dusts i.e. silica during horizontal concrete drilling. Respiratory protection shall be evaluated for use by the contract Industrial Hygiene group during these and other activities throughout the course of a project.

If data is available to support the supposition that real-time monitoring is not necessary, i.e., data exists on a previous job, or in peer-reviewed literature, to show that neither the ACGIH or OSHA exposure limits are exceeded, then such data must be included with this Health and Safety Plan, and reviewed and accepted by either the Tserpes Holding Inc. Industrial Hygiene Group or the employer's safety and health and professional responsible for Industrial Hygiene monitoring.

EXPOSURE MONITORING PROGRAM

All work on the project shall be done within the occupational exposure limits for Industrial Hygiene hazards set in OSHA 29CFR1926, 29CFR1910, and American Conference of Governmental Industrial Hygienists (ACGIH) *Threshold Limit Values*® (TLV) (including, but not limited to, chemical, lead, silica, asbestos, beryllium, noise, non-ionizing radiation, and heat stress hazards on the project). Compliance with the OSHA Permissible Exposure Limits and ACGIH *Threshold Limit Values*® shall be determined by representative personnel exposure monitoring and dosimetry conducted by the employer or their representative. The details of the project's exposure monitoring equipment, methods, and monitoring strategy are included in this Health and Safety Plan.

The employer will provide qualified monitoring and hazard assessment personnel to conduct all Industrial Hygiene monitoring. In addition, personnel who conduct exposure monitoring on workers who handle, disturb, or remove friable asbestos containing material will maintain NYSDOL Industrial Code Rule 56 & USEPA required training and certification for Project Monitor. Copies of all monitoring personnel certifications are included as part of this Health and Safety Plan

The employer will conduct monitoring with calibrated equipment using National Institute of Occupational Safety and Health (NIOSH) or OSHA approved methods, and have analysis conducted by an American Industrial Hygiene Association (AIHA) Proficiency Analytical Testing certified laboratory or by National Institute of Standards and Testing (NIST) traceable calibrated direct reading instrumentation. All instrumentation used for surveys shall be calibrated in compliance with the manufacturer's specification prior to use in the field.

Section 16: PHASE HAZARD ANALYSIS PROGRAM

INTRODUCTION:

A Phase Hazard Analysis, (PHA), is an **effective** written work plan, which identifies the tasks to be completed; including access/egress and set-up/breakdown under all **expected or created** environmental conditions. Also included is the method of work for safely completing these tasks, associated work hazards, and the corresponding equipment and methods that will be used to prevent loss to **persons or property** for all contracted work, including that of Subcontractors who will develop their own PHA's and forward them to the General Contractor for their written approval, who will then forward the PHA's to Tserpes Holding Inc. for acceptance..

The PHA document shall provide Tserpes Holding Inc. with a defined plan of action for identified hazards and comprehensive prevention methods for exposures to workers, the Tserpes Holding Inc. populous/public, and property. PHA's shall address all foreseeable exposures to employees, the Tserpes Holding Inc. populous/public, and property for Contract work, including all tiers of Subcontractors. The PHA shall be used as the basis for Contract coordination items and safety planning discussions in the Construction Management process.

The Phase Hazard Analysis (PHA) is intended to identify each phase of the project, the specific hazards associated with work tasks in each of those phases, and to effectively **detail** the mitigation and prevention measures to be taken to prevent injuries, property damage, and environmental insults. For example, if the project requires working from elevations, a detailed description of the fall protection measures (including the type of equipment used) which will be taken. If respiratory protection is required, the type of respirator must be listed. **It is not sufficient to say, "Comply with all OSHA regulations."**

The Contractor shall submit a PHA document to Tserpes Holding Inc. for each primary work activity at least one week prior to the intended start of that activity, (a sample PHA document is included). If the PHA does not adequately address all expected, foreseeable hazards posed by the work, Tserpes Holding Inc. will require clarification or additional planning to ensure that work proceeds safely. Work shall not begin until the PHA has been submitted and accepted by Tserpes Holding Inc.. If required by Tserpes Holding Inc., a presentation of the means and methods of the work to be done is to be made to Tserpes Holding Inc. by the Competent Person(s) involved, showing how the plan will be implemented, **effectively communicated to the workers and properly carried out** to the satisfaction of Tserpes Holding Inc..

Where special or heavy equipment will be used, the contractor must specify the type of equipment to be used, e.g., front-end loader, man lift, concrete finishing equipment, etc. The contractor must research available information for each specialized piece of equipment, including operating manuals, manufacturer's web sites, etc., and address those hazards identified by the manufacturer of the equipment. If available prior to the start of the project the contractor must supply to the Tserpes Holding Inc. Construction Safety Engineer that portion of the equipment-operating manual or other reference material, which discusses the safety precautions for that piece of equipment.

In the identification phase of the hazard identification and control process, the contractor will conduct surveys, interview workers, conduct inspections, and review records to determine the presence of hazardous conditions or program weaknesses. Analysis goes a step beyond mere identification. Not only do we want to determine if hazards exist, we want to know the negative impact that program weaknesses and hazards have on the workplace and what must be accomplished to eliminate or reduce that impact.

By closely **analyzing each part** of a component of a task, in each phase of that process, or each step in a procedure, recognized potential hazards will be identified and effective control measures put in place.

Below is an example of a typical partial list of recognized construction project hazards. It is intended that the contractor develop his own list for the specific project.

Sample of PHA's that are Task-Specific

Work Related Hazards

Temporary Construction
Cranes & other large equipment
Hand and Power tools

Compressed gases
Flammables
Hazardous Chemicals/Spills
Fire
Lockout/Tagout
Falls From Elevation
Weather Conditions
Slips, Trips and Falls
Material Delivery
Cutting/Grinding/Chipping
Roofing Work
Unsafe Acts (other)
Placement of Warning Signs

Site Configuration Hazards

Access/Egress
Underpinning/Pile Driving/Shoring
Protection of the Tserpes Holding Inc.
Populous

Support of Utilities
Excavations
Falling Objects
Flying Objects
Housekeeping/Site Clean Up
Noise Damage
Maintenance & Protection of Traffic
Temporary Electric
Confined Spaces
Operating energized equipment
Demolition Activities
Unsafe Conditions (other)

Section 16: PHASE-HAZARD ANALYSIS

(COMPANY LETTERHEAD)

To be completed for submittal and review. For each separate phase of the work, Task-Specific, (as appropriate) indicate the known hazards that shall be encountered and the prevention and mitigation controls which shall be in place.

SAMPLE ONLY

Work Phase or Task	Recognized or Known Hazards	Prevention/Controls
Mobilization/Staging		
Site Clearing		
Site Grubbing		
Dust Control		
Excavation/ Utility work		
Backfilling		
Compacting		
Grading		
Road Bed Stone Placement		
Building Demolition		
Asphalt Placement		
Temporary Electric		
Foundation Demolition		
Plumbing Work		
Concrete/Masonry		
Interior Rehab		
Electrical		
Mechanical Work		
Utilities		
Flooring		
HVAC		
Masonry/Exterior Work		
Building Siding		
Interior Finish Work		
Road Work - Maintenance of Traffic		
Roofing		
Structural Steel/Rebar Work		
De-mobilize		

EXAMPLE OF SPECIFIC SITE HAZARDS AND CONTROL MEASURES

SCOPE	LOCATIONS	TRADES INVOLVED	HAZARD	WORKER PROTECTION (PPE)	PUBLIC PROTECTION	CONSTRUCTION MEANS & METHODS
Steel remediation, concrete remediation, scaffolding and fireproofing	Lab rooms	Iron Workers Masons Carpenters Laborers	Fall Fire Trains Electrical Scaffold Erection Hazardous Material Site Control Site Access	Eye & Face Protection Personal Fall Protection Hearing Protection Respiratory Protection Head Protection	Tserpes Holding Inc. Contract Specifications OSHA 29 CFR 1910 & 1926, DOE CFR 10, 851	Abrasive Grinding Air Tools Compressed Gas Concrete & Masonry Housekeeping Illumination Scaffolds Steel Erection Welding, Cutting & Heating
CCTV System, Dynamic Signage, PA System	Lab rooms Communication Room Hallways Basement	Electricians Laborers	Fall Electrical Site Control Site Access	Eye & Face Protection Personal Fall Protection Hearing Protection Respiratory Protection Head Protection	Specific Submittal on Public Protection for Working Areas and Notification of Proper Passage for Public Contract Specifications	Air Tools Housekeeping Ladders Scaffolds Electrical Work Practice Hand Tools
Electrical Installation	Rooms and hallways	Electricians Laborers	Fall Electrical Site Control Site Access	Eye & Face Protection Personal Fall Protection Hearing Protection Respiratory Protection Head Protection	Specific Submittal on Public Protection for Isolation of Working Areas and Notification of Proper Passage for Public Contract Specifications	Power Tools Hand Tools Scaffolds Ladders Housekeeping
Asbestos Removal	Mechanical rooms and pipe insulation	Asbestos Handlers Carpenters Laborers	Hazards Materials and Containment Ladders and Scaffolds Site Control	Personal Fall Protection Respiratory Protection Eye and Face Protection Head Protection Special clothing	Specific Submittal on Public Protection for Isolation of Working Areas and Notification of Proper Passage for Public Contract Specifications	Asbestos Containment Scaffolds Ladders Hand Tools

PHASE HAZARD ANALYSIS

APPLICABLE TO ALL CONSTRUCTION CONTRACTS

PRINCIPAL STEPS/TASKS	POTENTIAL HAZARDS	RECOMMENDED CONTROLS								
1. Administration of construction contracts a. General	1. Employee unqualified for or unfamiliar with assigned duties	1. All persons shall be physically and emotionally qualified for performing the duties to which they are assigned.								
	2. Untreated injuries	1. First aid kits shall be available in ratio of 1 to 25 persons or less and shall be waterproof and sterile with easy access from all workers.								
	3. Unsanitary conditions	1. An adequate supply of drinking water shall be supplied from sources approved by Federal, State, or local health authorities. 2. Toilet facilities shall be provided at each construction job site in the ratios shown: <table border="0" data-bbox="945 727 1365 974"> <tr> <td data-bbox="945 727 1155 760">No. of Employees</td> <td data-bbox="1155 727 1365 760">Min. Facilities</td> </tr> <tr> <td data-bbox="945 784 1155 816">20 or less</td> <td data-bbox="1155 784 1365 816">1</td> </tr> <tr> <td data-bbox="945 816 1155 849">20 or more</td> <td data-bbox="1155 816 1365 849">1 toilet seat & 1 urinal per 40 workers</td> </tr> <tr> <td data-bbox="945 898 1155 930">200 or more</td> <td data-bbox="1155 898 1365 930">1 toilet seat & 1 urinal per 50 workers</td> </tr> </table> 3. Washing facilities shall be provided as needed to maintain healthful and sanitary conditions. Eyewash will be provided.	No. of Employees	Min. Facilities	20 or less	1	20 or more	1 toilet seat & 1 urinal per 40 workers	200 or more	1 toilet seat & 1 urinal per 50 workers
No. of Employees	Min. Facilities									
20 or less	1									
20 or more	1 toilet seat & 1 urinal per 40 workers									
200 or more	1 toilet seat & 1 urinal per 50 workers									
b. physical qualifications of employee	1. Physically unfit employees creating hazard for themselves and others	1. All persons shall be physically and emotionally qualified for performing the duties to which they are assigned. Some factors to be considered in making work assignments are strength, endurance, agility, coordination, and visual and hearing acuity.								
c. personal protective apparel and safety equipment	1. Improper protection for employee	1. Required personal protective devices shall be identified to the workers and used as required when engaged in their Craft or Trade.								

d. poisonous and harmful substances		1. Exposure to harmful substances	1. All dusts, mists, fumes, gases, or other atmospheric contaminants in areas where persons are employed shall first be brought within acceptable limits by engineering controls such as ventilation, enclosure, or filtration. If this is not feasible, then administrative controls such as duration of exposure shall be used. When this method is not feasible, protective equipment shall be provided. Acceptable limits shall be those recommended in the latest edition of "Threshold Limit Values" by the American Conference of Governmental Industrial Hygienists.
e. lighting		1. Improper lighting	1. Offices, stairways, passageways, construction roads and work areas shall be lighted while work is in progress by at least the minimum standards.
f. signals, warning signs, signaling		1. Poor signals and unmarked hazards	1. A uniform standard signal system shall be used in all operations. 2. Hand signals for crane operations shall conform to ANSI B30 series. 3. Traffic flagging procedures shall meet ANSI D6.1. Manual on Uniform Traffic Control Devices for streets and highways. 4. Warning signs shall be placed to provide adequate warning of hazards to workers and the public.

g. material handling, storage and disposal		1. Unsafe material handling, storage, and disposal	<p>1. Material in bags, containers, bundles, pallets, or stored in tiers shall be stacked, blocked, interlocked, and limited in height so that it is stable and secured against sliding or collapse.</p> <p>2. Access ways shall be kept clear.</p> <p>3. Flammable liquids in a storage building should be in a "No Smoking" area.</p> <p>4. Handling of materials should be in accordance with safety recommendations for that particular material.</p> <p>5. Disposal of all materials shall be in accordance with Federal, State, and local laws and more specific with guidance from the Environmental Protection Agency.</p>
h. fire prevention		1. Fires	<p>1. Recommendations of NFPA and all Tserpes Holding Inc. regulations shall be complied with in addition to the local building codes.</p>
i. fire protection		1. Inadequate fire fighting equipment	<p>1. Portable fire extinguishers shall be provided where needed and inspected and maintained in accordance with NFPA 10 Portable Fire Extinguishers.</p>
j. welding and cutting		1. Injury or fire from welding and cutting operations	<p>1. All welding and cutting equipment and operations shall be in accordance with standards and recommended practices of the American Welding Society, Safety in Welding and Cutting, ANSI Z49.1 and the recommendations of NFPA as well as the Tserpes Holding Inc. site specific requirements.</p>
k. electrical wiring and apparatus		1. Improper wiring	<p>1. All electrical wiring and equipment shall be of a type listed by UL or Factory Mutual Engineering Corp for the specific application.</p>

l. hand and power tools		1. Improper use of hand and power tools	1. All hand tools shall be in good repair and used only for the purpose for which designed. Defective tools shall be tagged out and removed from service.
m. ropes, slings, chains, and hooks		1. Improper use of rope, slings, chains, and hooks could result in equipment or personal injury	1. The use of rope, slings and chains shall be in accordance with the safe recommendations of their manufacturer and the equipment manufacturer when used in conjunction therewith. 2. Rigging equipment shall not be loaded in excess of its recommended safe working load as prescribed in latest edition of ANSI B 30.9. Defective or questionable rigging components shall be identified, tagged and removed from the work site.
n. machinery and mechanized equipment		1. Improper and unsafe use of machinery and mechanized equipment	1. Before any machinery or mechanized equipment is placed in use, it shall be inspected and tested by a competent mechanic and certified to be in safe operating condition. 2. Qualified persons shall maintain and operate equipment in a safe manner that is consistent with the manufacturer's recommendations.
o. motor vehicles		1. Improper use	1. "Motor Vehicle" shall mean any vehicle propelled by a self-contained power unit. 2. Every person shall possess a permit valid for the equipment being operated. 3. No vehicle shall be driven at a speed greater than reasonable and proper, with due regard for weather, traffic, intersection's width, character of the roadway, type motor vehicle, and any other existing condition.
p. ramps, runways, platforms, scaffolds and towers		1. Unsafe work access platforms	1. All temporary trestles, ramps, scaffolds and similar load bearing structures shall be in compliance with OSHA 1910 and 1926 Requirements

q. excavations		1. Injury to personnel or equipment caused by ground movement	1. The sides of all excavations in which employees are exposed from moving ground, regardless of depth, shall be guarded by a shoring system, sloping of the ground, or other equivalent, effective means.
s. access facilities		1. Unsafe access to work areas	1. Safe access shall be provided to all work areas. 2. Safe access ladders shall conform to the latest edition of the Safety Codes for Portable Wood Ladders, portable metal ladders, fixed ladders, and job-made ladders by ANSI.
2. Administration of contract a. general		1. Employee unqualified for or unfamiliar with assigned duties	1. All persons shall be physically and emotionally qualified for performing the duties to which they are assigned.
		2. Equipment not transported securely	1. Tools, materials, and equipment subject to displacement or falling shall be adequately secured.
b Housekeeping /clean-up		1. Tools/materials presenting pedestrian hazard	1. Tools, materials, extension cords, hoses, or debris shall not cause tripping or other hazard. 2. Walkways, runways, and sidewalks shall be kept clear of obstructions.
		2. Electrical hazard from equipment etc.	1. Portable tools and equipment shall be grounded by a multi-conductor cord having an identified grounding conductor and a multi-contact polarized plug-in receptacle. GFCI's shall be used on all temporary Power Circuits.
c. clean-up/loading/unloading, MOT work		1. Working in proximity to vehicular traffic	1. Persons exposed to vehicular traffic shall wear vests, belts or apparel marked with a reflectorized or high visibility material. Stop/Slow Signs shall be used to direct traffic. Red flags are not permitted.

		2. Inadequate or unsafe clothing		1. Employees shall wear clothing suitable for the weather and work conditions. The minimum shall be short sleeve shirt with 4" sleeve, long trousers, and leather or other protective work shoes or boots. Canvas, tennis, or deck shoes are not acceptable.
		3. Contamination of water (cleaning solutions, pesticides, insecticides, etc.)		1. Contamination or pollution of any river, stream, soil or public water is prohibited. Required slit barriers shall be effectively maintained as installed.
		4. Insects, vermin, rodent or bird droppings		1. Protection against hazards involving insects, vermin, rodent or bird droppings shall include: <ul style="list-style-type: none"> a. Accepted first aid remedies. b. Instruction in recognition and identification.
		5. Poisonous plants		1. In areas where employees are exposed to poison ivy, oak, sumac, or other poisonous plants, the following protective measures, as pertinent, shall be provided: <ul style="list-style-type: none"> a. Appropriate protective clothing, gloves, etc. b. Accepted first aid remedies for treatment. instruction in recognition and identification
		6. Unattended machinery		1. Machinery or equipment requiring an operator shall not be permitted to run unattended.
		7. Unsafe operation of machinery or equipment		1. Machinery or equipment shall not be operated in a manner that will endanger persons or property nor shall the safe operating speeds or loads be exceeded.

		8. Repairs to machinery or equipment in field subject to traffic hazard		1. All repairs to machinery or equipment shall be made at a location which will provide protection from traffic.
		9. Traffic hazard presented by machinery or equipment		1. No vehicle shall be stopped, parked, or left standing on any road, parking lot or adjacent thereto or in any area in such a manner as to endanger the vehicle, other vehicles, equipment, personnel, or the public using or passing that road, parking lot or area.
		10. Unattended vehicle with motor running		1. No vehicle shall be left unattended until after the motor has been shut off.
d. Equipment or slow moving vehicle in roadways or travel ways		1. Slow-moving vehicle or tractor		1. The slow-moving vehicle emblem shall be used on vehicles or equipment which, by design, or move at 25 m.p.h. or less on public roads.
		2. Storage of fuel		1. All tanks, containers, and pumping equipment used for the storage or handling of flammable and combustible liquids shall be listed by U.L.
		3. Unqualified employee handling hazardous materials		1. All storage, handling, or use of flammable and combustible liquids shall be under the supervision of qualified persons.
		4. Defective tools		1. Tools having defects that will impair their strength or render them unsafe shall be removed from service.
		5. Defective power tools		1. Power tools shall be inspected, tested, and determined to be in safe operating condition prior to use. 2. Continued periodic inspection shall be made to assure safe operating condition and proper maintenance.

		6. Unsafe machinery or equipment	1. Before any machinery or mechanized equipment is placed in use, it shall be inspected and tested by a competent mechanic and certified to be in safe operating condition.
		7. Guards on hand operated powered equipment	1. Hand operated power equipment shall have guards fully in place that protect the operator, before the operating the machine.

Section 17: SOURCES OF RADIATION

(COMPANY LETTERHEAD)

LASERS

Only lasers which are Class 2, 3A, or 3R, will be permitted on the construction site.

- Only qualified and trained employees will be assigned to install, adjust, and operate laser equipment. Proof of qualification of the laser equipment operator will be available and in possession of the operator at all times. **(Name of Contractor)** will have the training documentation on file or it will be readily available.
- Areas in which lasers are used will be posted with standard laser warning placards.
- Only those devices labeled as Class 2 or 3a, or 3r (**no greater than 5 milliwatts**) will be used.
- Never intentionally stare into the laser beam.
- Never intentionally aim the beam at oneself or another person, particularly in the facial area.
- The beam will be turned off when not in use.
- Mirror-like surfaces will be avoided when directing the laser beam. A reflected beam can act like a direct beam on the eye.
- Areas in which lasers are used will be posted with standard laser warning placards.
- Beam shutters or caps will be utilized, or the laser turned off, when laser transmission is not actually required. When the laser is left unattended for a substantial period of time, such as during lunch hour, overnight, or at change of shifts, the laser will be turned off. Consideration to best mitigate laser beam transmissions to passing motorists will be evaluated.
- When it is raining or snowing, or when there is dust or fog in the air, the operation of laser systems will be prohibited where practicable; in any event, employees will be kept out of range of the area of the source and target during such weather conditions.
- Laser unit in operation should be set up above the heads of the employees, when possible.

IONIZING RADIATION SOURCES

There will be **no** sources of ionizing radiation (e.g., Soil Density Gauges, Troxler Density Gauges, Radiography Sources, etc.) brought to the site under any circumstances.

REFERENCES

29 CFR 1926.53 and 1926.54 Tserpes Holding Inc. Radiological Control Manual
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Section 18: OCCUPATIONAL MEDICINE PROGRAM

(COMPANY LETTERHEAD)

To ensure the continued health of our employees *(Insert Name of Contractor)* maintains a comprehensive occupational medicine program. This program is under the direction and control of *(Insert name of Certified Occupational Medicine Physician)*.

CONTRACTOR RESPONSIBILITIES:

(Name) provides comprehensive occupational medicine services to each of its employees, or workers under his control, who

- work at Tserpes Holding Inc. for 30 or more days in a 12 month period; or
- work for any length of time at Tserpes Holding Inc. and are required by statute to be enrolled in a medical or exposure monitoring program.

(Name) affirms that these services are fully compliant with all provisions of Section 8 (“Occupational Medicine”) of Appendix A of the Federal Regulation 10 CFR 851 including the following provisions:

Services are provided by an occupational medicine provider (“OMP”) that

- plans and implements the occupational medicine services
- Is under the direction of a physician licensed in the state of New York.
- Is staffed by health care professionals with valid New York State licenses in their respective professions.

OMP Information

OMP Name: _____

Address: _____

Phone #: _____

Fax #: _____

The OMP determines the content of the worker health evaluations in accordance with current sound and acceptable medical practices and all pertinent statutory and regulatory requirements

At a minimum, these services include:

Medical surveillance and medical certification examinations in compliance with all OSHA or other statutory or contractual requirements for such examinations applicable to the work to be performed and the type and level of workplace exposures. Frequency of such examinations to be determined by statute, contractual requirement or best medical practice as determined by the OMP.

-

- Evaluation at the time of potentially work-related illness, potentially harmful exposure or injury at Tserpes Holding Inc. to determine work-relatedness, any need for medical restrictions or work removal, and referral for definitive care, if indicated.
- Return-to-work evaluations where a worker has been absent for 5 or more workdays due to illness or injury.
- Restricted duty as medically indicated.
- Creation and retention of a medical record that complies fully with all requirements specified in paragraph 8(f) of Appendix A 10CFR 851 for each employee for whom the OMP has provided occupational medicine services.
- Verbal and written communication to each employee as to the purpose, nature and results of all medical evaluations and tests performed and documentation of this communication in the medical record.
- Timely submittal of the results of health evaluations to Tserpes Holding Inc. where such information will facilitate the mitigation of worksite hazards. Such communications will not include the release of confidential, personally-identifiable medical information, other than in exceptional instances where there is a compelling, overriding public health or public safety need.

The following occupational medicine services are also provided by the OMP, except where the OMP determines that they are not applicable or not feasible. Such a determination is documented in writing for each service that will not be provided, with sufficient explanation:

- Participation in worker protection teams, as well as worker safety and health team meetings and committees as defined, respectively, in paragraphs 8 (e)(2) and 8(d) (3) of 10CFR 851.
- Case Management of Ill or Injured workers to facilitate rehabilitation and safe return to work.
- A health promotion program to include disease and risk factor screening for the major causes of morbidity and mortality within the employee population, if determined to be cost effective. If deemed not cost effective, the OMP's decision and its basis must be documented in the outline of comprehensive occupational medicine services.
- **(Name)** health and disability insurance claims data (pre-identified) is used by the OMP in determining the major causes of morbidity and mortality within **(Name)** workforce, if such information is available to **(Name)**.
- Cost effectiveness to be judged by available evidence, published medical studies, demonstration projects at other institutions or internal analyses.
- Review and approval of the medical and behavioral aspects of **(Name)** -sponsored or **(Name)** –supported (if they exist).
 - Employee Assistance Programs (EAPs)
 - Alcohol and substance abuse rehabilitation programs; and
 - Wellness programs

- If the work requires immunization, a hazardous waste program, or involves exposure to blood-borne pathogens, the OMP shall review the medical aspects to assure their conformance to applicable guidelines.

(Name) provides to the OMP:

- Access to information (de-identified) from health, disability and other insurance plans appropriate for determining the major causes of morbidity and mortality among the contractor's employees.
- Information on the physical demands and working conditions that is associated with each contractor employee's job.
- Employee job-task and hazard analysis information, including actual or potential work-site exposures of each employee. Tserpes Holding Inc. will provide potential radiological hazard exposure information if applicable.
- Notification when an employee has been absent because of an injury or illness for more than 5 consecutive workdays.
- Referral of employees about whom the supervisor has concerns regarding ability to safely perform job duties.
- The opportunity to participate in worker protection teams, as well as worker safety and health team meetings and committees (where applicable).

Tserpes Holding Inc. Responsibilities:

Tserpes Holding Inc. will provide the **(Name)** OMP with

- Access to pre-existing work-site hazard information, e.g., chemical, radiological, biological, asbestos.
- Access to the workplace for evaluation of job conditions and issues relating to workers' health.
- Information or materials requested by the **(Name)** or OMP to assist the OMP in developing occupational medicine services. This information and materials may include relevant portions of Tserpes Holding Inc.'s Worker Safety and Health Program, Tserpes Holding Inc. policies, procedures and forms, as well as consultation with relevant Tserpes Holding Inc. health, safety and occupational medicine personnel.
- Chapter 8 of Appendix A of 10 CFR 851 and its implementation guide DOE G 440.1-8

For work performed at Tserpes Holding Inc., the **(Name)** is covered under Tserpes Holding Inc.'s site emergency plan, and may be asked by Tserpes Holding Inc. to provide information relevant to the plan, or to assist in developing a portion of the plan.

REFERENCES:

Code of Federal Regulation – 10 CFR 851 - Worker Safety and Health
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EXAMPLE OF ACCEPTABLE PHYSICIAN'S ACKNOWLEDGEMENT (Submit the completed physician's acknowledgement with this HASP)

I _____ affirm that the services which I provide are
(Name of Physician)

fully compliant with the provisions of Section 8 (Occupational Medicine) of Appendix A of the Federal Regulation 10 CFR 851 including the following:

- Plan and implementation of the occupational medicine services.
- I am a physician licensed in the State of New York.
- My office is staffed with health care professionals with valid New York State licenses in _____, _____, and _____.
- I will provide medical surveillance and medical certification in compliance with OSHA, or other statutory or contractual requirements.

(Signature of Physician)

(Date)

Driving Directions from Construction Site to Jamaica Hospital

From: 142nd St & 135th Ave, Queens, NY 11436

**To: Jamaica Hospital, 8900 Van Wyck Expressway, Jamaica, NY 11418
(718) 206-6000**

1.

**Head west on 135th Avenue toward 140th Street
go 0.2 mi
total 0.2 mi**

2.

**Turn right at Van Wyck Expressway
About 2 mins
go 0.5 mi
total 0.7 mi**

3.

**Take the ramp on the left onto I-678 N
Destination will be on the right
About 3 mins
go 2.3 mi
total 3.0 mi**

**Jamaica Hospital Medical Center
8900 Van Wyck Expressway, NY 11418 - (718) 206-6000**

Appendix F:
LPC Letter of Determination

THE CITY OF NEW YORK LANDMARKS PRESERVATION COMMISSION
1 Centre Street, 9N, New York, NY 10007 (212) 669-7700 www.nyc.gov/landmarks

ENVIRONMENTAL REVIEW

DEPARTMENT OF CITY PLANNING/07DCP024Q

12/16/2010

Project number

Date received

Project: NORTH CONDUIT REZONING

Properties with no Architectural or archaeological significance:

140-16 135 AVENUE, BBL 4120950002
142 STREET, BBL 4120950006

Gina Santucci

12/16/2010

SIGNATURE

DATE

27486_FSO_DNP_12162010.doc

Appendix G:
Jamaica Bay Tracking Form

Appendix G:
Jamaica Bay Tracking Form

Jamaica Bay Watershed Protection Plan Project Tracking Form

The Jamaica Bay Watershed Protection Plan, developed pursuant to Local Law 71 of 2005, mandates that the New York City Department of Environmental Protection (DEP) work with the Mayor’s Office of Environmental Coordination (MOEC) to review and track proposed development projects in the Jamaica Bay Watershed (http://www.nyc.gov/html/oec/downloads/pdf/ceqr/Jamaica_Bay_Watershed_Map.jpg) that are subject to CEQR in order to monitor growth and trends. If a project is located in the Jamaica Bay Watershed, (the applicant should complete this form and submit it to DEP and MOEC. This form must be updated with any project modifications and resubmitted to DEP and MOEC.

The information below will be used for tracking purposes only. It is not intended to indicate whether further CEQR analysis is needed to substitute for the guidance offered in the relevant chapters of the CEQR Technical Manual.

A. GENERAL PROJECT INFORMATION

- 1. CEQR Number: 1a. Modification
- 2. Project Name:
- 3. Project Description:
- 4. Project Sponsor:
- 5. Required approvals:
- 6. Project schedule (build year and construction schedule):

B. PROJECT LOCATION:

- 1. Street address:
- 2. Tax block(s): Tax Lot(s):
- 3. Identify existing land use and zoning on the project site:
- 4. Identify proposed land use and zoning on the project site:
- 5. Identify land use of adjacent sites (include any open space):
- 6. Describe existing density on the project site and the proposed density:

Existing Condition	Proposed Condition
<input type="text" value="Undeveloped (zero)"/>	<input type="text" value="+/- 138,384 SF, 13-story hotel with 344 rooms and parking for 96 cars along with two truck bays."/>

- 7. Is project within 100 or 500 year floodplain (specify)? 100 Year 500 Year No

C. GROUND AND GROUNDWATER

- Total area of in-ground disturbance, if any (in square feet): +/- 40,000 SF
- Will soil be removed (if so, what is the volume in cubic yards)? +/- 15,000 cubic yards
- Subsurface soil classification:
(per the New York City Soil and Water Conservation Board): fine/medium sand, unrestricted use
- If project would change site grade, provide land contours (**attach** map showing existing in 1' contours and proposed in 1' contours).
- Will groundwater be used (list volumes/rates)? Yes No
Volumes: N/A Rates: N/A
- Will project involve dewatering (list volumes/rates)? Yes No
Volumes: N/A Rates: N/A
- Describe site elevation above seasonal high groundwater:
Site grade is approximately 15 to 19 feet above seasonal high groundwater

D. HABITAT

- Will vegetation be removed, particularly native vegetation? Yes No
If YES,
 - **Attach** a detailed list (species, size and location on site) of vegetation to be removed (including trees >2" caliper, shrubs, understory planting and groundcover).
 - **List** species to remain on site.
 - **Provide** a detailed list (species and sizes) of proposed landscape restoration plan (including any wetland restoration plans).
- Is the site used or inhabited by any rare, threatened or endangered species? Yes No
- Will the project affect habitat characteristics? Yes No
If YES, describe existing wildlife use and habitat classification using "Ecological Communities of New York State." at <http://www.dec.ny.gov/animals/29392.html>.
- Will pesticides, rodenticides or herbicides be used during construction? Yes No
If YES, estimate quantity, area and duration of application.
- Will additional lighting be installed? Yes No
If YES and near existing open space or natural areas, what measures would be taken to reduce light penetration into these areas?
Nearest resource is > 600 feet away (Holiday Gardens Park); lighting directed away from park.

E. SURFACE COVERAGE AND CHARACTERISTICS

(describe the following for both the existing and proposed condition):

	Existing Condition	Proposed Condition
1. Surface area:		
Roof:	0 SF	12,840 SF
Pavement/walkway:	0 SF	16,684 SF
Grass/softscape:	40,702 SF	11,208 SF
Other (describe):	0 SF	0 SF

2. **Wetland** (regulated or non-regulated) area and classification:

0 SF	0 SF
------	------

3. **Water surface area:**

0 SF	0 SF
------	------

4. **Stormwater management** (describe):

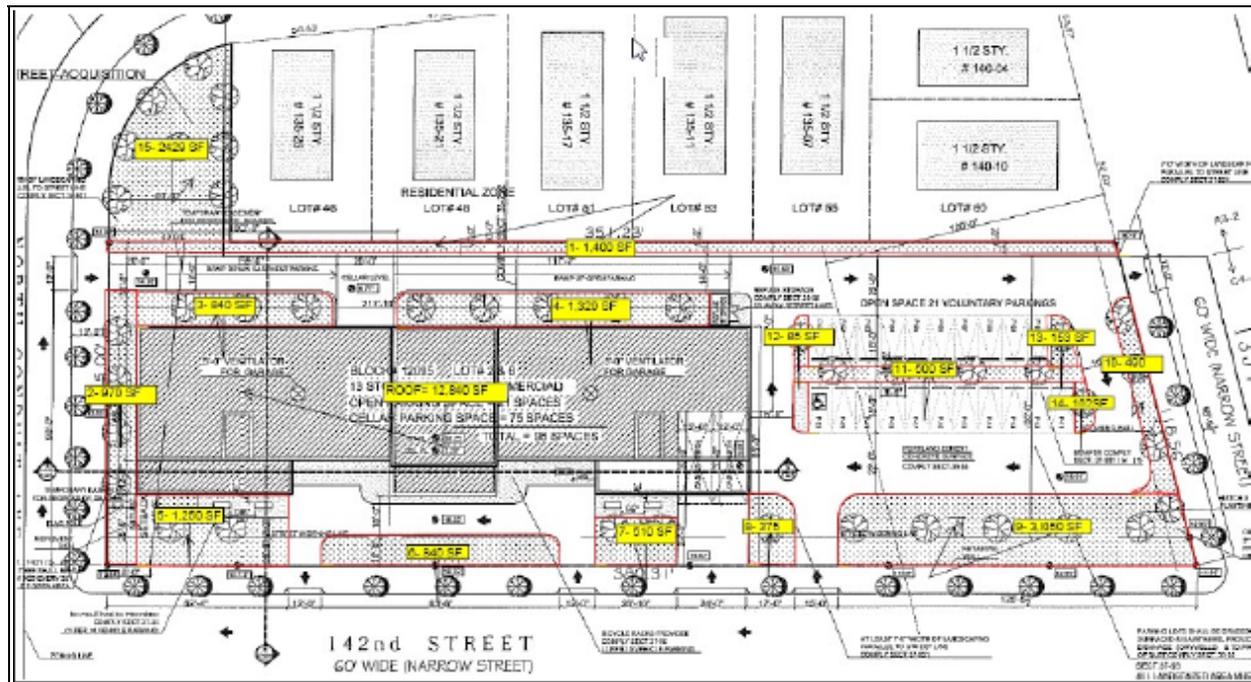
Existing – how is the site drained?

Infiltration, Runoff into Adjacent Sidewalks and Streets, Evaporation

Proposed – describe, including any infrastructure improvements necessary off-site:

Connection to NYC Storm Sewer(s)

Appendix H:
Sewer Infrastructure Backup Data



Proposed Project Surfaces

ADJUSTMENT FOR TAKING	
HARD:	
DW 1	115
DW 2	115
OS 1	230
DW 3	140
	600
Taking =	3791
SOFT	3191
HARD	600

Adjustment for Street Widening

	Length (FT)	Width (FT)	Area (SF)
Total Site	---	---	40702
Green Areas (Soft)			
1 Buffer Strip	350	4	1400
2 Fronting North Conduit	97	10	970
3 Rear from No Conduit to Garage Drive	70	12	840
4 Rear from Garage Drive to Building Edge	110	12	1320
5 Front from No Conduit to Drive I	50	25	1250
6 Front from Drive I to Drive II	84	10	840
7 Front from Drive II to Loading Bay	30	17	510
8 Front from Loading Bay to Drive III	25	15	375
9 Front from Drive III to 135 th Avenue	122	25	3050
10 135th Street Side	70	7	490
11 Center Parking Strip	100	5	500
12 Left End Parking Strips (2)	17	5	170
13 Right End Parking Strip Top	17	9	153
14 Right End Parking Strip Bottom	17	6	102
15 <u>Demapped</u> North Conduit (all soft)			2429
Soft Areas Taken for Street Widening			3191
Total Soft (1 thru 15 less 3191)	---	---	11208
Roof	214	60	12840
Pavement and Walks (Total-Roof-Soft)	---	---	16654
			40702

Proposed Project Surface Summary

COMPARISON OF EXISTING AND WITH-ACTION VOLUME						
CSO SUBCATCHMENT AREA: Jamaica Bay (Storm Sewer) ¹						
EXISTING	Area = 40,702 SF (0.93 ACRES)					
	SITE A					
	RAINFALL VOLUME (in)	RAINFALL DURATION (hr)³	RUNOFF VOLUME DIRECT DRAINAGE (MG)⁴	RUNOFF VOLUME TO CSS (MG)	SANITARY VOLUME TO CSS (MG)	TOTAL VOLUME TO CSS (MG)
	0.00	3.80	0.00	0.00	0.00	0.00
	0.40	3.80	0.00	0.00	0.00	0.00
	1.20	11.30	0.01	0.00	0.00	0.00
	2.50	19.50	0.01	0.00	0.00	0.00
With-Action	Area = 40,702 SF (0.93 ACRES)					
	SITE A					
	RAINFALL VOLUME (in)	RAINFALL DURATION (hr)³	RUNOFF VOLUME DIRECT DRAINAGE (MG)⁴	RUNOFF VOLUME TO CSS (MG)	SANITARY VOLUME TO CSS (MG)	TOTAL VOLUME TO CSS (MG)
	0.00	3.80	0.00	0.00	0.06	0.06
	0.40	3.80	0.01	0.00	0.06	0.06
	1.20	11.30	0.02	0.00	0.06	0.06
	2.50	19.50	0.05	0.00	0.06	0.06

Summary Table

SURFACE CALCULATIONS						
Jamaica Bay SubCatchment Area						
EXISTING						
WEIGHTED RUNOFF COEFFICIENT, C						
	SURFACE TYPE ¹	ROOF ²	PAVT & WALKS	OTHER ³	GRASS & SOFT SCAPE	TOTAL
SITE A	AREA, %	0%	0%	0%	100%	100%
	SURFACE AREA, SF	0	0	0	40702	40702
	RUNOFF COEFFICIENT	1.00	0.85	0.85	0.20	0.20
NOTES:						
1	Runoff coefficients for each surface type are as per DEP.					
2	Total roof areas onsite.					
3	Identify any other surfaces onsite and obtain runoff coefficients from DEP.					
Jamaica Bay SubCatchment Area						
WITH-ACTION SCENARIO (PROJECT + NO-ACTION SCENARIO)						
WEIGHTED RUNOFF COEFFICIENT, C						
	SURFACE TYPE ¹	ROOF ²	PAVT & WALKS	OTHER ³	GRASS & SOFT SCAPE	TOTAL
SITE A	AREA, %	32%	41%	0%	28%	100%
	SURFACE AREA, SF	12840	16654	0	11208	40702
	RUNOFF COEFFICIENT	1.00	0.85	0.85	0.20	0.72

Surface Calculations

EXISTING:		CSO SUBCATCHMENT AREA: Jamaica							
	Rainfall, in	Duration, hr	Total Area (A), acre	Weighted Runoff Coefficient (C)	Stormwater to CSS, MG	Daily Sanitary Sewage Generation per CEQR TM, MGD (!)	Sanitary to CSS, MG		
	0.00	3.80	0	0.00	0.00	0.00	0.000		
	0.40	3.80	0	0.00	0.00	0.00	0.000		
	1.20	11.30	0	0.00	0.00	0.00	0.000		
	2.50	19.50	0	0.00	0.00	0.00	0.000		
RECEIVING WATERBODY FOR STORM SEWER OR DIRECT DISCHARGE:									
	Rainfall, in	Duration, hr	Total Area (A), acre	Weighted Runoff Coefficient (C)	Stormwater Runoff, MG	Daily Sanitary Sewage Generation per CEQR TM, MGD (!!)	Sanitary to CSS, MG !!!		
	0.00	3.80	0.93	0.20	0.00	0.00	0.000		
	0.40	3.80	0.93	0.20	0.00	0.00	0.000		
	1.20	11.30	0.93	0.20	0.01	0.00	0.000		
	2.50	19.50	0.93	0.20	0.01	0.00	0.000		
WITH-ACTION SCENARIO (PROPOSED PROJECT + WITHOUT ACTION SCENARIO):									
WITH-ACTION SCENARIO (PROPOSED PROJECT + WITHOUT ACTION SCENARIO):		CSO SUBCATCHMENT AREA:							
	Rainfall (!), in	Duration, hr	Total Area (A), acre	Weighted Runoff Coefficient (C)	Stormwater to CSS, MG	Daily Sanitary Sewage Generation per CEQR TM, MGD (!)	Sanitary to CSS, MG		
	0.00	3.80	0	0.00	0.00	0.00	0.000		
	0.40	3.80	0	0.00	0.00	0.00	0.000		
	1.20	11.30	0	0.00	0.00	0.00	0.000		
	2.50	19.50	0	0.00	0.00	0.00	0.000		
RECEIVING WATERBODY FOR STORM SEWER OR DIRECT DISCHARGE:									
	Rainfall (!), in	Duration, hr	Total Area (A), acre	Weighted Runoff Coefficient (C)	Stormwater Runoff, MG	Daily Sanitary Sewage Generation per CEQR TM, MGD (!!)	Sanitary to CSS, MG !!!		
	0.00	3.80	0.93	0.72	0.00	0.06	0.000		
	0.40	3.80	0.93	0.72	0.01	0.06	0.000		
	1.20	11.30	0.93	0.72	0.02	0.06	0.000		
	2.50	19.50	0.93	0.72	0.05	0.06	0.000		

Volume Calculations

Appendix I:

NYC Law Department Condemnation
Letter



MICHAEL A. CARDOZO
Corporation Counsel

THE CITY OF NEW YORK
LAW DEPARTMENT
100 CHURCH STREET
NEW YORK, N.Y. 10007-2601

December 21, 2010

Tserpes Holding I, LLC
c/o
Vincent L. Pitaro, PLLC
350 Seventh Ave., Suite 1703
New York, NY 10001

Re: 142nd STREET FROM BASCOM AVENUE TO SUTTER AVENUE,
Queens Co. Index No. 18977/2010; NYC Law Dep't Matter No. 2009-
038427

Dear Sir or Madam:

This letter is being written to you because you are the former owner of property that was acquired by the City of New York in the above referenced condemnation proceeding, or because you are an attorney representing the former owner of such property.

The New York City Law Department has authorized the Office of the Comptroller of the City of New York ("the Comptroller") to issue a payment for the property that was taken. This payment is the appraised value of the property that has been taken. However, before a check can be issued, a "SUBSTITUTE FORM W-9" must be completed and submitted to the Comptroller. A copy of this form is enclosed herewith. The form must be completed and submitted to the following address:

Condemnation Unit
Bureau of Accountancy
Office of the Comptroller
1 Centre Street, Room 808
New York, NY 10007

The Office of the Comptroller will inform you when the payment is ready. If you do not hear from the Comptroller's office within two (2) months after receiving this letter, please call Ms. Millie Callo at 212-669-2024.

Furthermore, please note that, even if the payment is ready, the advance payment cannot be obtained until all title objections on the property have been cleared by the Law Department. A list of the title objections on the property is enclosed herewith. If you have any questions about the clearing of title, please contact Michael Wasser, Esq. at 212-788-0423 (telephone) or at mwasser@law.nyc.gov (e-mail); or contact Emily Cohen, Esq. at 212-788-0718 (telephone) or at ecohen@law.nyc.gov (e-mail). Please note that, as part of the process of clearing title, you will have to provide a copy of the deed, lease, or other document that establishes that you have a legal interest in the property that has been condemned. Please contact Mr. Wasser or Ms. Cohen about the title objections **ONLY**; since Mr. Wasser or Ms. Cohen will not be able to assist you with other matters. All other inquiries should be directed to Ms. Callo or to the undersigned.

Yours truly,



Fred Kolikoff
Assistant Corporation Counsel
(212) 788-0716

Enclosures

142nd St., Queens Index 18977/2010;
LM # 2009-038427

Continuation as of November 17, 2010

TASK 7

In the Borough of Queens The City of New York Title Vested: 10/29/2010

Block 12095 Lot 2

DAMAGE	PARCEL	NUMBER	OWNER	REMARKS	ADVANCE PAYMENT
D.P. 53 & 53A	Tserpes Holding I, LLC		having offices at 271 Ocean Avenue, Lynbrook, New York 11563 by Deed from Tserpes Holdings, Inc. dated 1/30/2008 and recorded 2/25/2008 and recorded 2/25/2008 in CRFN # 2008000077045.		\$93,910. ⁰⁰
... Continued on next page	SUBJECT TO:		1) Proof of Title must be approved and filed. 2) No open mortgages of record. 3) Environmental Control Board lien vs. Tserpes Holding LLC in the amount of \$2,500.00. – See attached 4) Proof is required as to the following with regard to Tserpes Holding I, LLC, A New York Limited Liability Company: (a) Proof of due information including proof of filing of the Articles of Organization with the Secretary of State and proof of publication of Articles of Organization (or a notice containing the substance of the Articles); (b) Articles of Organization and Operating Agreement must be produced and reviewed. Additional exceptions maybe raised upon review of the same; (c) Proof is required that there has been no change in the make up or composition of the Organization and that there have been amendments made to the Article of Organization or Operating Agreement;(d) Proof is required that the party or parties executing the instruments on behalf of the Organization have to execute same;		

<p>...Continued from prior page Block 12095 Lot 2</p>	<p>5) Possible outstanding NYC Real Estate taxes.</p> <p>6) Bankruptcy Search vs. Tserpes Holding I, LLC shows no returns.</p> <p>7) Covenants and Restrictions searched and found no returns.</p> <p>8) Court Order, Index 18977-2010, dated 10/29/2010 and filed 10/25/2010, recorded 11/01/2010 in CRFN # 201000036532</p> <p>Street Report:</p> <p>135th Avenue mapped at 60 feet wide Title Vested 6/29/1964 to the full width</p> <p>142nd Street mapped at 40 feet wide Corporation Counsel opinion 10/18/1980 with the proposed widening 10 feet more or less on each side.</p> <p>North Conduit Avenue mapped irregular with final decree 5/11/1926 with proposed widened irregular width on north side.</p> <p>140th Street mapped at 60 feet wide Final decree 7/6/1932 to the full width</p>		
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The City of New York Condemnation Substitute Form W-9 Instructions

The City of New York, like all organizations that file an information return with the IRS, must obtain your correct Taxpayer Identification Number (TIN) to report income paid to you or your organization. The City uses Condemnation Substitute Form W-9 to obtain certification of your TIN, to ensure accuracy of information contained in its payee/vendor database, and to avoid IRS mandated backup withholding.* We ask for the information on the Condemnation Substitute Form W-9 to carry out the Internal Revenue laws of the United States (Rev. Proc. 84-65 §11.01). You are required to give us the information.

Any vendor or other payee who wishes to do business with the City of New York must complete the Substitute Form W-9.

Part I: Vendor Information

- Legal Name:** An organization should enter the name in IRS records, IRS Letter CP575 or IRS Letter 147C. For individuals, enter the name of the person who will do business with the City of New York as it appears on the Social Security card, certified Form SSA-7028 or other required Federal tax documents. *Do not abbreviate names.*
- DBA (Doing Business As):** Enter your DBA in designated line, if applicable.
- Entity Type:** Mark the Entity Type of the individual or organization that will do business with the City of New York.

Part II: Taxpayer Identification Number (TIN) and Taxpayer Identification Type

- Taxpayer Identification Number:** Enter your nine-digit TIN. See the table and Special Note below for instructions on the type of taxpayer number you should report.
- Taxpayer Identification Type:** Mark the appropriate option.

The following table gives the Taxpayer Identification Type that is appropriate for each Entity Type.

Entity Type	Taxpayer Identification Type
<ul style="list-style-type: none"> ▪ Church or Church-Controlled Organization ▪ Personal Service Corporation ▪ Non-Profit Corporation ▪ Corporation / LLC ▪ Government ▪ Individual/Sole Proprietor <i>who has employees other than him or herself</i> ▪ Trust ▪ Joint Venture ▪ Partnership / LLC ▪ Single Member LLC <i>who has employees other than him or herself</i> ▪ Estate 	Employer Identification Number
<ul style="list-style-type: none"> ▪ City of New York Employee ▪ Individual/Sole Proprietor <i>who does not have employees other than him or herself</i> ▪ Single Member LLC <i>who does not have employees other than him or herself</i> 	Social Security Number
Resident Alien/Non-Resident**	Individual Tax Identification Number
Non-United States Business Entity**	N/A
Custodian account of a minor	The minor's Social Security Number

**See Special Note below.

Part III: Primary 1099 Vendor and Remittance Address

- Primary 1099 Vendor Address (Administrative):** List the location where your 1099 tax information should be delivered, if applicable. Otherwise, provide your headquarters address.
- Remittance Address:** The location where payments should be delivered has been listed. *Do not change this information.*

Part IV:

Enter the name of the Condemnation proceeding.

Part V: Backup Withholding Exemption

Generally, reportable payments made by the City of New York are subject to Backup Withholding. For this reason, exemption from Backup Withholding applies to government and non-United States Business Entities.

Part VI: Certification

Please sign and date form in appropriate space. Provide preparer's name and telephone number. Preparer should be employed by organization.

** Special Note for Resident and Non-Resident Aliens and Non-United States Business Entities.

Resident and Non-Resident Aliens: An ITIN is a nine-digit number issued by the United States Internal Revenue Service to individuals who are required to file a Federal Tax return. An ITIN is for tax-purposes only and does not entitle you to Social Security Benefits. To obtain an ITIN, submit Form W-7 to the IRS. The IRS will notify you within 4 to 6 weeks in writing about your ITIN status. In order to do business with the City of New York, **you must also submit the appropriate IRS Form W-8 (W-8BEN, W-8ECI, W-8EXP, or W-8IMY)** along with FMS Substitute Form W-9 showing your ITIN. IRS Form W-8 certifies your foreign status.

Foreign Corporations or Partnerships: In order to do business with the City of New York, **you must submit IRS Form W-8BEN, W-8ECI, W-8EXP, or W-8IMY** along with FMS Substitute Form W-9. IRS Forms W-8 certify your foreign status and may exempt you from United States information return reporting and backup withholding rules.

To obtain IRS Forms W-7 and W-8, call (800) 829-3676 or visit the IRS website at www.irs.gov.

*Backup Withholding - According to IRS Regulations, the City must withhold 28% of all payments if a payee/vendor fails to provide the City of New York its certified TIN. The Substitute Form W-9 certifies a payee/vendor's TIN.