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Deputy Commissioner
Program Management

Jean M. Jean-Louis
LEED AP BD+C,
ENV SP, CIAQM
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Safety and Site Support

May 24, 2017
Steven Watts
New York State Department of Environmental Conservation
Division of Environmental Permits
NYSDEC Region 2 Headquarters
47-40 21ST Street
Long Island City, NY 11101-5407

Reference: South Beach NYCDDC HWR1132B Staten Island, NY 10305
Installation of New Storm & Sanitary Sewers
Request for SPDES Permit

Dear Mr. Watts,

Restani Construction has contracted Moretrench American Corporation for the installation of a deep well dewatering system to facilitate the construction of new storm and sanitary sewers located along various streets in the South Beach section of Staten Island, NY. We have previously applied for a Jurisdictional Determination for this project. However, based upon the NYSDEC's recent discussions with Moretrench regarding the elevated levels of benzene and ethylbenzene found at monitoring well B-49 at the intersection of Kensington Ave and Olympia Avenue, Moretrench has been instructed to apply for a SPDES permit for the entire project with the following conditions.

Of the (8) eight separate groundwater samples retrieved from the project site, only one sample location (monitoring well B-49) shows signs of contamination of concern. As instructed by the NYSDEC, Moretrench American Corporation retrieved additional groundwater data from monitoring well B-49 which showed reduced levels of benzene and ethylbenzene at 7.5 ppb and 6.5 ppb respectively which is still over the NYSDEC limits of 0.7 ppb and 5 ppb.

The majority of the project area consists of residential housing with the exception of a mechanics shop located at the intersection of Kensington Ave and Olympia Ave with an address of 167 Olympia Blvd. This mechanic shop where monitoring well B-49 is located adjacent to has a **closed** spill registered with the NYSDEC. However, within the project area and radius of influence there are no registered contaminated sites, superfunds, brownfields, voluntary cleanup programs and no open spills were found from the online spill database.

Therefore, based upon these existing conditions, it is anticipated that for the majority of the project a settling tank shall be utilized for the effluent discharge to the local storm sewer system which empties to Lower NY Bay. For the dewatering area located near well B-49 it is anticipated that a treatment system consisting of a settling tank, bag filters and carbon units shall be used if required to meet the NYSDEC effluent limitations as to be set forth in the SPDES permit. The level of treatment shall be dependent on the sampling results obtained in the field during construction.

Initial samples will be collected within 48 hours of startup of dewatering operations for each individual proposed sampling outfall (see enclosed map). If any of the SPDES permit effluent limits or action levels are exceeded, then the discharge will cease and the DEC will be notified. An appropriate treatment system will then be installed to collect a second sample after treatment within 24 hours of recommencement of the discharge. This will ensure

that the effluent discharge to the storm sewer meets the DEC effluent limits.

Scope of Work:

The proposed dewatering work is to assist in the installation of sanitary and storm sewers in the South Beach area of Staten Island, New York. From the geological sections provided, the current surface elevation ranges from El +7 to El +40. Groundwater ranges from approximately EL +1 to El +8.

More trench will install deep wells at the following locations:

Olympia Blvd.

From Quintard St. to Bionia Ave.

<u>Cut</u> 7'-12'	<u>Excavation below GWT</u> 3'-7'	<u>Length of pipe</u> 1990 LF	<u>Dewatering System</u> Approximately 35 wells, 40ft deep
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Mallory Avenue.

From Olympia Blvd to Foch Ave.

<u>Cut</u> 10'-12'	<u>Excavation below GWT</u> 3'-5'	<u>Length of pipe</u> 600 LF	<u>Dewatering System</u> Approximately 7 wells, 40ft deep
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Norway Avenue

From Olympia Blvd to Nugent Ave.

<u>Cut</u> 8'-10'	<u>Excavation below GWT</u> 2'-5'	<u>Length of pipe</u> 500 LF	<u>Dewatering System</u> Approximately 6 wells, 40ft deep
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Vulcan St.

From Nugent Ave. to Patterson Ave.

<u>Cut</u> 7'-12'	<u>Excavation below GWT</u> 2'-6'	<u>Length of pipe</u> 885 LF	<u>Dewatering System</u> Approximately 10 wells, 40ft deep
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Winfield St.

From Nugent Ave. to Patterson Ave.

<u>Cut</u> 8'-15'	<u>Excavation below GWT</u> 3'-8'	<u>Length of pipe</u> 1120 LF	<u>Dewatering System</u> Approximately 12 wells, 40ft deep
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Patterson Ave.

From Quintard St. to Vulcan St.

<u>Cut</u> 13'-14'	<u>Excavation below GWT</u> 8'	<u>Length of pipe</u> 500 LF	<u>Dewatering System</u> Approximately 9 wells, 40ft deep
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Nugent Ave.

From Quintard St. to Vulcan St.

<u>Cut</u>	<u>Excavation below GWT</u>	<u>Length of pipe</u>	<u>Dewatering System</u>
8'-10'	2'-5'	500 LF	Approximately 7 wells, 40ft deep

Appleby Ave.

From Quintard St. to Norway Ave.

<u>Cut</u>	<u>Excavation below GWT</u>	<u>Length of pipe</u>	<u>Dewatering System</u>
9'-10'	2'-4'	400 LF	Approximately 6 wells, 40ft deep

Scott Ave.

From Quintard St. to Norway Ave.

<u>Cut</u>	<u>Excavation below GWT</u>	<u>Length of pipe</u>	<u>Dewatering System</u>
7'-8'	2'-4'	400 LF	Approximately 6 wells, 40ft deep

Reid Avenue

At the Intersection of Reid Ave. and Quintard St.

<u>Cut</u>	<u>Excavation below GWT</u>	<u>Length of pipe</u>	<u>Dewatering System</u>
8'-10'	2'-3'	-	Approximately 2 wells, 40ft deep

A total of approximately **6,775'** of sewer will require dewatering utilizing approximately **100 deep wells**. The wells will be fully equipped with submersible pumps, motor starter / controls, and wellheads. The wells will be constructed of 12 inch PVC.

Sumping operations will be performed along the following work areas :

- **Bionia Ave**
- **Jerome Ave**
- **Kensington Ave**
- **Lamport Blvd**

Project Details :

- **Point of Discharge A :** Along the Western border of the project, an existing NYCDEP 9'x 5' storm sewer exists along the entire length Quintard Street. This storm sewer eventually empties into Lower NY Bay via existing NYCDEP outfall # OB-687. A maximum of 1,000 GPM of groundwater from the deepwell system shall pass through a 18,000 gallon sized settling tank before discharging to the 9'x5' storm sewer located at the intersection of Quintard St. and Patterson Ave. However, as described above, the level of treatment shall be dependent on the sampling results obtained in the field during construction. Another point of discharge to this storm sewer shall be made at the intersection of Reid Ave and Quintard St.
- **Point of Discharge B :** Along the Eastern border of the project site, an existing NYCDEP 9'x 4' storm sewer exists at the intersection of Hickory Street and Olympia Blvd. This storm sewer eventually empties

into Lower NY Bay via existing NYCDEP outfall # OB678. A maximum of 1,000 GPM of groundwater from the deepwell system shall pass through a 18,000 gallon sized settling tank before discharging to the 9'x4' storm sewer located along Hickory St. However, as described above, the level of treatment shall be dependent on the sampling results obtained in the field during construction. Sumping operations located along the Eastern side of the project shall also be discharged to this storm sewer.

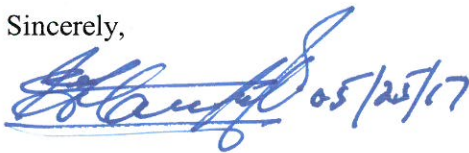
- The maximum discharge rate for this project shall be 1,000 GPM =1,440,000 GPD.
- The enclosed water samples were retrieved from existing monitoring wells at various locations throughout the project site without any pretreatment.
- The project site is not designated as a superfund, brownfield or voluntary cleanup program and no open spills were found from the online spill database within the project work area or within the project's radius of influence.
- Neighborhood Description : The surrounding neighborhood consists primarily of residential housing.
- Radius of Influence : Deepwell operations will produce an estimated radius of influence of 1,500'.

Enclosed Documents :

- NY-2C SPDES Form
- System Detail Sheet
- Deepwell Schematic
- Treatment System
- Water Analysis
- Site Plan & Maps

If you should have any questions please do not hesitate to contact me at 718-391-3134 or Ms. Cavy Chu at 718-391-1005.

Sincerely,



Jean M. Jean-Louis, LEED AP BD+C, CIAQM, ENV SP

Assistant Commissioner

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section I - Permittee and Facility Information

Please type or print the requested information.

1. Current Permit Information (leave blank if for new discharge)

SPDES Number:	DEC Number:
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2. Permit Action Requested: (Check applicable box)

<input checked="" type="checkbox"/> A NEW proposed discharge	<input type="checkbox"/> An EBPS INFORMATION REQUEST response	<input type="checkbox"/> A RENEWAL of an existing SPDES permit
<input type="checkbox"/> A MODIFICATION of the existing permit	<input type="checkbox"/> An EXISTING discharge currently without permit	

Does this request include an increase in the quantity of water discharged from your facility to the waters of the State?

<input type="checkbox"/> YES - Describe the increase:	
<input checked="" type="checkbox"/> NO - Go to Item 3. below.	

3. Permittee Name and Address

Name NYCDDC		Attention Jean M Jean-Louis	
Street Address 30-30 Thompson Avenue			
City or Village Queens	State NY	ZIP Code 11101	

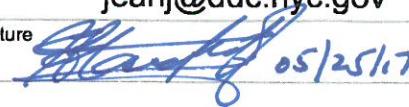
4. Facility Name, Address and Location

Name NYCDDC Project HWR1132B			
Street Address Various in Staten Island		P.O. Box	
City or Village Staten Island	State NY	ZIP Code 10305	
Town	County Richmond		
Telephone 718-391-3134	FAX N/A	NYTM - E	NYTM - N
Tax Map Info (New York City, Nassau County and Suffolk County only)			
Section N/A	Block N/A	Subblock N/A	Lot N/A

5. Facility Contact Person

Name Jean M Jean-Louis LEED AP BD+C, CIAQM		Title Assistant Commissioner	
Street Address 30-30 Thompson Ave		P.O. Box	
City or Village Queens	State NY	ZIP Code 11101	
Telephone 718-391-2086	FAX N/A	E-Mail or Internet CASSAGNO@ddc.nyc.gov	

6. Discharge Monitoring Report (DMR) Mailing Address

Mailing Name NYCDDC			
Street Address 30-30 Thompson Ave		P.O. Box	
City or Village Queens	State NY	ZIP Code 11101	
Telephone 718-391-3134	FAX N/A	E-Mail or Internet jeanj@ddc.nyc.gov	
Name and Title of person responsible for signing DMRs Jean M Jean-Louis LEED AP BD+C, CIAQM Assistant Commissioner		Signature  05/25/17	

**INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information**

Facility Name: NYCDDC Project HWR1132B	SPDES Number:
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7. Summarize the outfalls present at the facility:

Outfall Number	Receiving Water	Type of discharge
OB-687	Lower NY Bay	Temporary groundwater discharge
OB-678	Lower NY Bay	Temporary Groundwater Discharge

8. Map of Facility and Discharge Locations:

Provide a detailed map showing the location of the facility, all buildings or structures present, wastewater discharge systems, outfall locations into receiving waters, nearby surface water bodies, water supply wells, and groundwater monitoring wells, and attach it to this application. Also submit proof, either by indication on the map or other documentation, that a right of way for the discharges exists from the facility property to a public right of way.

9. Water Flow Diagram:

See Enclosed Site Plan

**INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information**

Facility Name: NYCDDC Project HWR1132B	SPDES Number:
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15. Facility Ownership: (Place an "X" in the appropriate box)

Corporate Sole Proprietorship Partnership Municipal State Federal Other

Are any of the discharges applied for in this application on Indian lands? Yes No

16. List information on any other environmental permits for this facility:

Issuing Agency	Permit Type	Permit Number	Permit Status		
			Active	Applied for	Inactive
NYCDEP	BWSO Connections			X	
NYSDEC	Water Withdrawal			X	

17. Laboratory Certification:

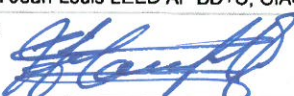
Were any of the analyses reported in Section III of this application performed by a contract laboratory or a consulting firm?

YES - Complete the following table.
 NO - Go to Item 18 below.

Name of laboratory or consulting firm	Address	Telephone (area code and number)	Pollutants analyzed
Phoenix Labs	587 East Middle Turnpike Manchester, CT 06040	860-645-8726	NYSDEC Parameters

18. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title (type or print) Jean M Jean-Louis LEED AP BD+C, CIAQM Assistant Commissioner		Date signed 05/25/17
Signature 	Telephone number 718-391-3134	FAX number N/A

INDUSTRIAL APPLICATION FORM NY-2C Section I - Permittee and Facility Information

Facility Name: NYCDDC Project HWR1132B	SPDES Number:
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19. Industrial Chemical Survey (ICS)

N/A

Complete all information for those substances your facility has used, produced, stored, distributed, or otherwise disposed of in the past five (5) years at or above the threshold values listed in the instructions. Include substances manufactured at your facility, as well as any substances that you have reason to know or believe present in materials used or manufactured at your facility. Do not include chemicals used only in analytical laboratory work, or small quantities of routine household cleaning chemicals. Enter the name and CAS number for each of the chemicals listed in Tables 6-10 of the instructions, and the table number which lists the chemical. You may use ranges (e.g. 10-100 lbs., 100-1000 lbs., 1000-10000 lbs., etc.) to describe the quantities used on an annual basis as well as for the amount presently on hand. For those chemicals listed in Tables 6, 7, or 8 which are indicated as being potentially present in the discharge from one or more outfalls at the facility, indicate which outfalls may be affected in the appropriate column below, and include sampling results in Section III of this application for each of the potentially affected outfalls. Make additional copies of this sheet if necessary.

Name of Substance	Table	CAS Number	Average Annual Usage	Amount Now On Hand	Units (gallons, lbs, etc)	Purpose of Use (see codes in Table 2 of instructions)	Present in Discharge? (Outfall(s)?)

This completes Section I of the SPDES Industrial Application Form NY-2C. Section II, which requires specific information for each of the outfalls at your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
 For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section II - Outfall Information

Please type or print the requested information.

Facility Name: NYCDDC Project HWR1132B	SPDES Number:
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1. Outfall Number and Location

Outfall No.: OB-687	Latitude 40 ° 35 ' 15"	Longitude -74 ° 4 ' 26"	Receiving Water Lower NY Bay
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2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):	Temporary Groundwater Discharge					1,000		X	
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: N/A

a. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge	b. Daily Minimum Flow	c. Daily Average Flow	d. Daily Maximum Flow	e. Maximum Design flow rate
MG	0.144 MGD	0.86 MGD	1.44 MGD	1.44 MGD

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: NYCDDC Project HWR1132B	Outfall No.: OB-687
SPDES Number:	(Blank)

5. Is this a seasonal discharge?

YES - Complete the following table.
 NO - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			<input type="checkbox"/> MGD	<input type="checkbox"/> GPD	<input type="checkbox"/> GPM
Private Surface Water Source			<input type="checkbox"/> MGD	<input type="checkbox"/> GPD	<input type="checkbox"/> GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	Temporary Dewatering	1,000	<input type="checkbox"/> MGD	<input type="checkbox"/> GPD	<input checked="" type="checkbox"/> GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank: **POB To existing 9'x5' Storm Sewer To Lower NY Bay**
 In the stream:
 Within a lake or ponded water:
 Within an estuary: Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
 Discharge is equipped with diffuser: Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% 25% 50% Other:

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions: **N/A**

Stream width	Stream depth	Stream velocity	Are the results of a mixing/diffusion study attached?	<input type="checkbox"/> YES
Feet	Feet	Feet/Sec		<input type="checkbox"/> NO

Section II - Outfall Information

Facility Name:
NYCDDC Project HWR1132B

Outfall No.:
 OB-687
 SPDES Number:

8. Thermal Discharge Criteria

Is your facility one of the applicable types of facilities listed in the instructions, and does the temperature of this discharge exceed the receiving water temperature by greater than three (3) degrees Fahrenheit?

YES - Complete the following table.

Information on the intake and discharge configuration of this outfall is attached.

NO - Go to Item 9. below.

Discharge Temperature, deg. F			Duration of maximum discharge temperature		Dates of maximum discharge temperature		Maximum flow rate	Discharge configuration (e.g. subsurface, surface, effluent diffuser, diffusion well, etc.)
Average change in temperature (delta T)	Maximum change in temperature (delta T)	Maximum temperature	hours per day	days per year	From	To		
							MGD	

9. Are any water treatment chemicals or additives that are used by your facility subsequently discharged through this outfall?

YES - Complete the following table and complete pages 1 of 3 and 2 of 3 of Form WTCFX for each water treatment chemical listed.

NO - Go to Item 10. below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name

10. Has any biological test for acute or chronic toxicity been performed on this outfall or on the receiving water in relation to this outfall in the past three (3) years?

YES - Complete the following table.

NO - Go to Item 11. on the following page.

Water tested	Purpose of test	Type of test	Chronic or Acute?	Subject species	Testing date(s)		Submitted? (Date)
					Start	Finish	

**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Outfall No.: OB-687
SPDES Number:

Facility Name: NYCDDC Project HWR1132B

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

- YES** - Complete the following table. Treatment codes are listed in Table 4.
- NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)
18,000 Gallon Settling Tanks	1-U	Suspended Solids, Metals, Solids	1,000 GPM
	1-V		
10,000 lb Carbon Units	2-A	SVOC's & VOC's	1,000 GPM
	1-X		
6-Bag Filter Housings	1-Q	Suspended Solids, Metals, Solids	1,000 GPM

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

- YES** - Complete the following table.
- NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

Facility Name:
NYCDDC Project HWR1132B

SPDES No.:

Outfall No.:
OB-687

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data				Intake data (optional)												
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses		Units		Intake data (optional)		b. Number of analyses				
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass			a. Concentration	b. Mass	1. Concentration	2. Mass					
a. Biochemical Oxygen Demand, 5 day (BOD)																	
b. Chemical Oxygen Demand (COD)																	
c. Total Suspended Solids (TSS)																	
d. Total Dissolved Solids (TDS)																	
e. Oil & Grease																	
f. Chlorine, Total Residual (TRC)																	
g. Total Organic Nitrogen (TON)																	
h. Ammonia (as N)																	
i. Flow	Value		Value		Value		Value							Value			
j. Temperature, winter	Value		Value		Value		Value							Value			
k. Temperature, summer	Value		Value		Value		Value							Value			
l. pH	Minimum	Maximum	Minimum	Maximum										Minimum	Maximum		

See attached lab results

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries: i. Does the discharge from this outfall contain process wastewater?

Yes - Go to Item ii. below.
 No - Go to Item b. below.

ii. Indicate which GC/MS fractions have been tested for:

Volatiles:

Acid:

Base/Neutral:

Pesticide:

i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?

Yes - Concentration and mass data attached.
 No - Go to Item ii. below.

(See attached lab results)

b. All applicants:

ii. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?

Yes - Source or reason for presence in discharge attached
 Yes - Quantitative or qualitative data attached
 No

**INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information**

Facility Name: **NYCDDC Project HWR1132B**

SPDES No.:

Outfall No.: **OB-687**

3. Projected Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

Provide analytical results of at least one analysis for each pollutant that you know or have reason to believe is present in this discharge, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2 a on the preceding page.

List the name and CAS number for each pollutant that you know or have reason to believe is present in the discharge from this outfall. For each pollutant listed from Tables 6, 7, or 8, provide the results of at least one analysis for that pollutant, and determine the mass discharge based on the flow rate reported in Item 1.i. For each pollutant listed from Table 9, or any other toxic pollutant not listed in Tables 6-10, you must provide concentration and mass data (if available) and/or an explanation for their presence in the discharge. Make as many copies of this table as necessary for each outfall.

Pollutant and CAS Number	Effluent data				Units		Intake data (optional)				Believed present, no sampling results available								
	a. Maximum daily value (1)Concentration	(2) Mass	b. Maximum 30 day value (if available) (1)Concentration	(2) Mass	c. Long term average value (if available) (1)Concentration	(2) Mass	d. Number of analyses	a. Concentration	b. Mass	a. Long term average value (1)Concentration		(2) Mass	d. Number of analyses						
CAS Number:																			
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CAS Number:																			

See attached lab results



-  Deepwell Dewatering Area
-  Sumping Dewatering Area

South Beach DDC HW1132B

Sign in

POD 002 To Existing 8'x5' Storm Sewer
Which Empties To NYCDEP Outfall OB687

POD 003 To Existing 9'x4' Storm Sewer
Which Empties To NYCDEP Outfall OB678

POD 001 To Existing 9'x5' Storm Sewer
Which Empties To NYCDEP Outfall OB687

Sample Locations 1-21 Discharge To NYCDEP Outfall #OB687
Sample Locations 22-36 Discharge To NYCDEP Outfall #OB678

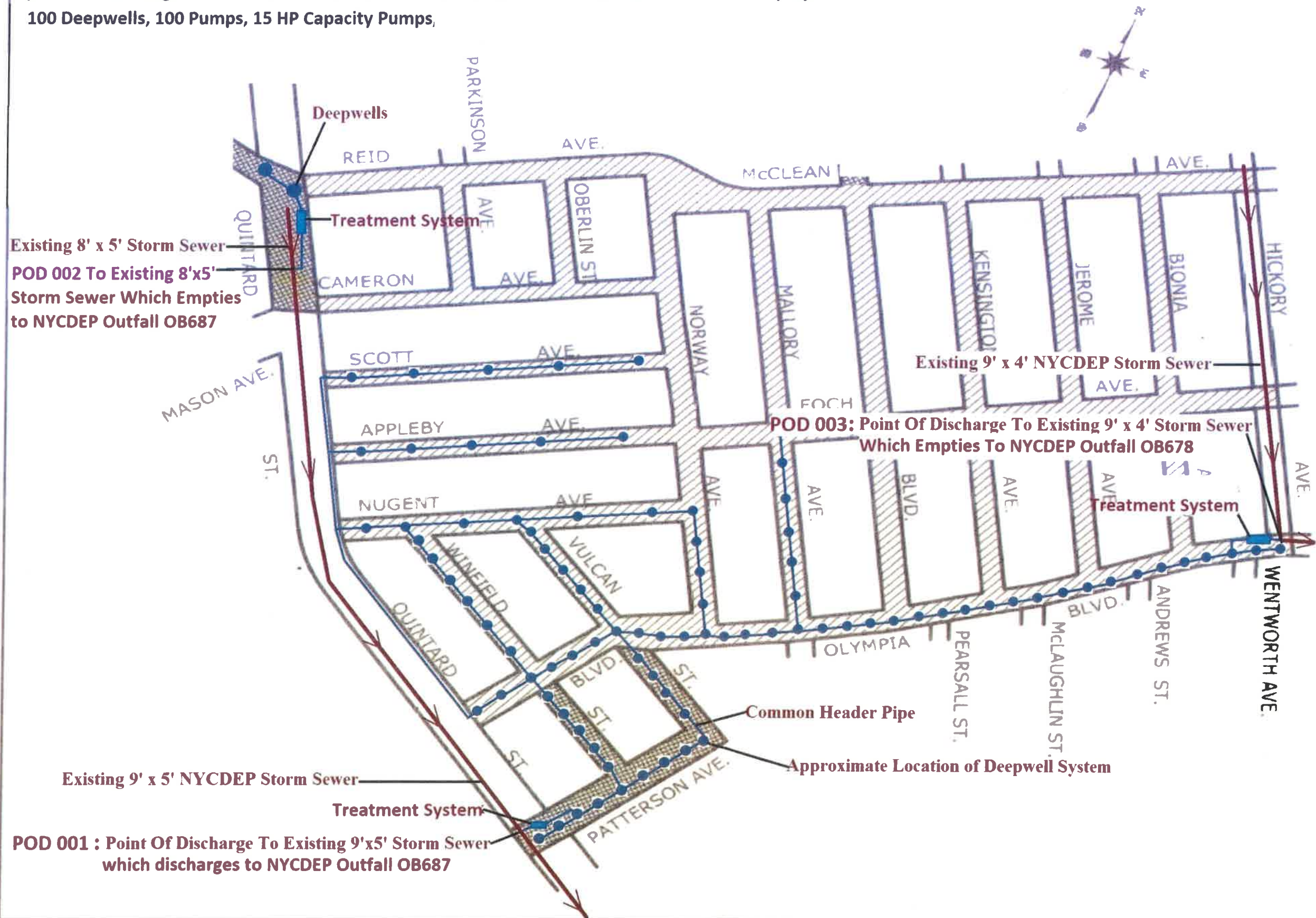
South Beach DDC HW1132B



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Note: Only (1) one treatment system shall be used for the project and shall be moved to the (3) different points of discharge one at a time. Maximum flowrate of 1,000 GPM = 1,440,000 GPD for the project.
 100 Deepwells, 100 Pumps, 15 HP Capacity Pumps,



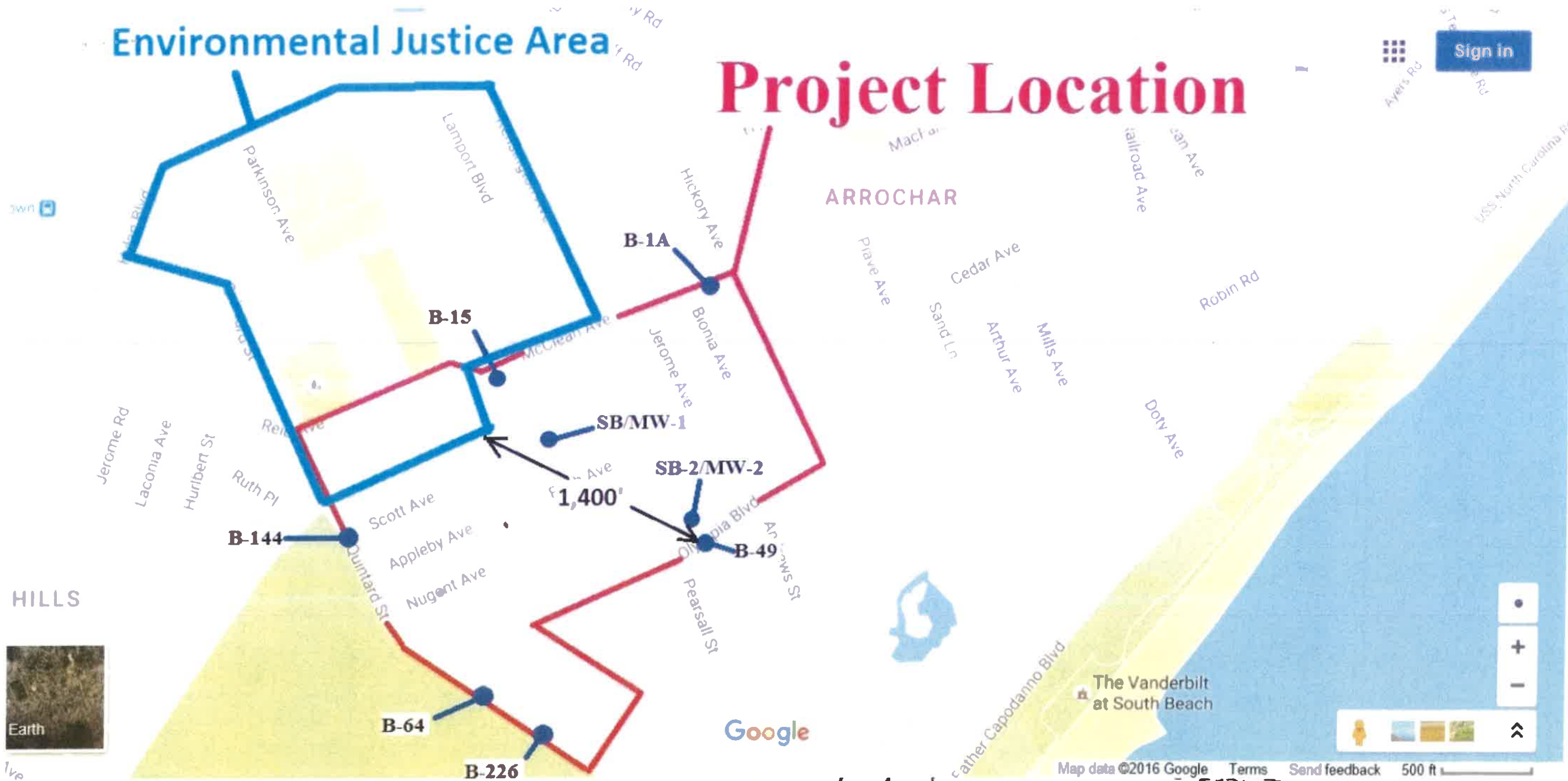


South Beach NYCDDC Project HWR1132B
Staten Island, NY

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Environmental Justice Area

Project Location



South Beach DDC HWR1132B

● Groundwater Sample Locations

Monitoring Well B-49 is located near a closed spill and is approximately 1,400' away from the Environmental Justice Area. Sample results from wells B-15 and B-144 did not show any contamination in the groundwater samples which is located immediately outside the EJ Zone nor did any of the other groundwater samples. No open spills or contaminated sites are located within the project work area or radius of influence.

Region 2 Long Island Well Dewatering System Detail Sheet

1. PROJECT DESCRIPTION -

*Temporary dewatering for
new sewer installation along various
streets in Staten Island, NY.*

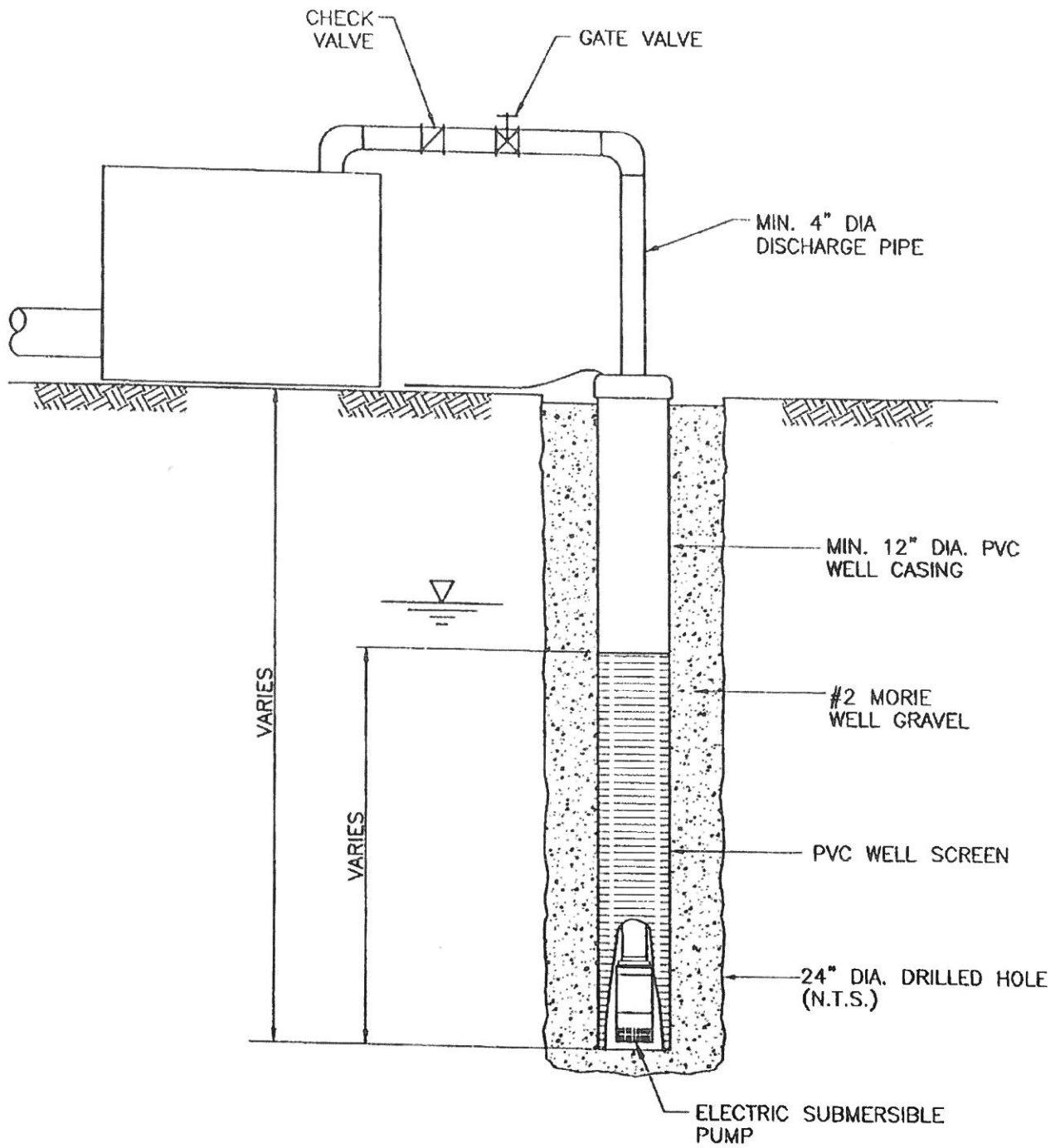
2. PROPOSED DEWATERING SYSTEM (Complete all items)

- a. Number of wellpoints 100 Deepwells
- b. Diameter of wellpoints 12"
- c. Spacing of wellpoints +/-
- d. Length of screen 30'
- e. Depth to bottom of screen 40'
- f. Number of pumps 100 Pumps
- g. Capacity of pumps 15 HP
- h. Static water level EL + 1 → EL + 8
- i. Drawdown required 5' - 10'
- j. Duration of dewatering 1 Year
- k. Radius of Influence 1,500'
- l. Maximum daily pumpage 1,000 GPM = 1,440,000 GPD
- m. Estimated daily pumpage 600 GPM = 864,000 GPD

3. PROPOSED POINT OF DISCHARGE (Show on site plan and check one of the following)

- Surface Water if checked, provide name of body of water _____
- Combined or Sanitary Sewer if checked, provide WPCP drainage area _____
- Storm Sewer if checked, provide name of body of water Lower NY Bay and
NYCDEP Outfall number _____
- Other explain Existing 9'x5' Storm Sewer on Quinterd St
Existing 9'x4' Storm Sewer on Hickory St.

Prepared by: (Print) Joseph Makon (Signature) *Joseph Makon* (Date) 11/15/16



SCHEMATIC DEEPWELL DETAIL

SCALE: 1/2" = 1'-0"

MORETRENCH AMERICAN CORP.
 467 CENTRAL PARK AVENUE
 YONKERS, NEW YORK



627 MT. HOPE ROAD
 WHARTON, NEW JERSEY 07885
 TEL: (800) 770-0901
 (973) 983-0901
 FAX: (973) 983-0903

MAJOR EQUIPMENT LIST

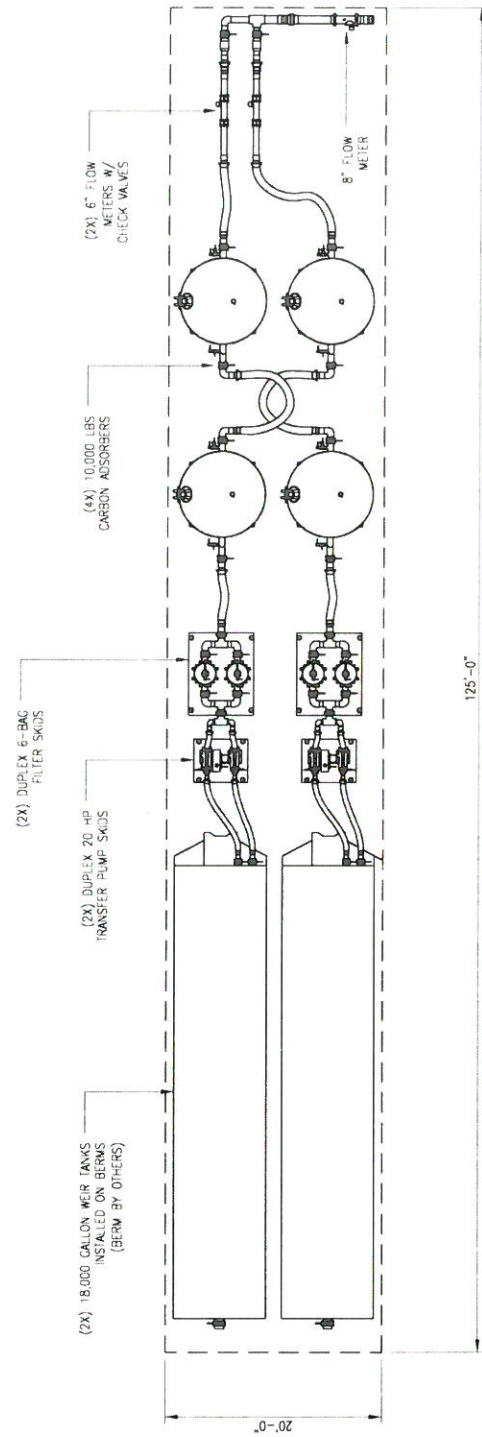
Project Name South Beach DDC Project
 Design Flow Rate 1,000 gpm
 GWTT Ref Q6235
 Drawing Ref Q-6235-LYT02(A)

Item	Description	GWTT Model No.
Frac Tank	18,000 Gallon Open Top Tank with Over/Under Wiers	NA
Pump Skid	Duplex 20 Hp Pump Skid	GWTT-ST-0008-SPC
Bag Filter Skid	Duplex 6-Bag Filter Skid	GWTT-ST-001-SPC
Carbon Adsorbers	10,000-Lb Carbon Adsorbers	GWTT-ST-000032-SPC01
Flow Meter	6" Flow Meter Assembly	GWTT-ST-0052-SPC

NOTES:

1. DESIGN FLOW RATE: 1000 GPM
2. SYSTEM FOOTPRINT APPROXIMATELY 20'x125'
3. NOT ALL VALVES, CONNECTIONS, ETC. SHOWN FOR CLARITY
4. GENERATOR BY OTHERS

TEMPORARY TREATMENT SYSTEM
OVERALL PLAN VIEW



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DRAWN BY: JLS/2/15	DATE: 02/07/15	APPROVED BY: JLS/2/15
REV. DATE: 10/07/15	REV. BY: RLS	PRELIMINARY DESIGN FOR REVIEW
REV. DATE:	REV. BY:	REMARKS:
TITLE:	EQUIPMENT LAYOUT 1000 GPM TEMPORARY TREATMENT SYSTEM	CUSTOMER:
SITE:	South Beach DDC	DRAWING NO. QT-146235-LYT02
SHEET:	A	OF:

GWTT
 GROUNDWATER REMEDIATION AND TECHNOLOGY, LLC
 677 MOUNT HOPE ROAD, WHARTON, NJ 07885
 PHONE: 973-583-0901 FAX: 973-583-0903
 www.gwtt.com



Easy-to-clean, smooth-wall interior



18,000 Gallon Open-Top Tank

(Available in California)

At Adler Tank Rentals, we are committed to providing safe and reliable containment solutions for all types of applications where performance matters.

Designed to allow tank content access via an open top, the 18,000 Gallon Open Top Tank is outfitted with a complete set of safety features, including a built-in stair and walkway, safety decals and non-slip step materials on all climbable surfaces.

Capacity: 18,060 gal (430 bbl)
Height: 13'
Width: 8'
Length: 46' 1"
Tare Weight: 26,820 lbs

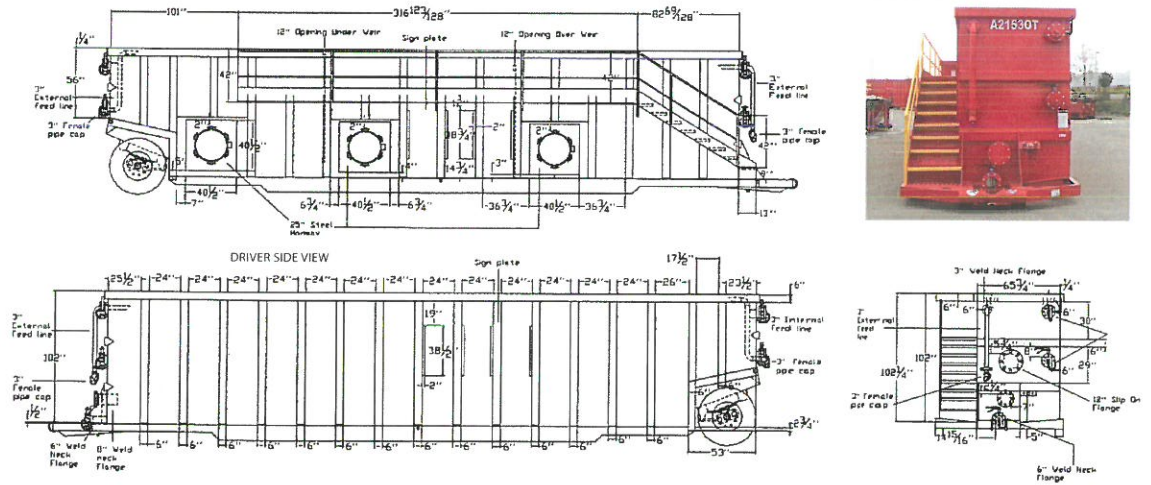
All sizes are approximate



Mechanical Features

- Bare steel interior
- 3" fill line
- Three (3) standard 22" side-hinged manways
- Multiple valved fill/drain ports, including floor-level valves for low point drain out
- Sloped and V bottom for quicker drain out and easier cleaning
- Easy-to-clean design with smooth wall interior, no corrugations and no internal rods
- Fixed rear axle for increased maneuverability
- Nose rail cut-out for easy access when installing hose and fittings on the front/bottom of tank
- Open top for easy access to liquids being stored, pumped or treated
- Full-length catwalk equipped with safety rails and non-slip tread
- Two (2) front and two (2) rear 6" valved fill/drain port

18,000 Gallon Open-Top Tank



Tank configurations may vary in selected markets

Safety Features

- Non-slip step materials on ladderwells and catwalks
- "Safety yellow" rails and catwalks for high visibility
- Safe operation reminder decals
- Built-in stair and walkway

Options

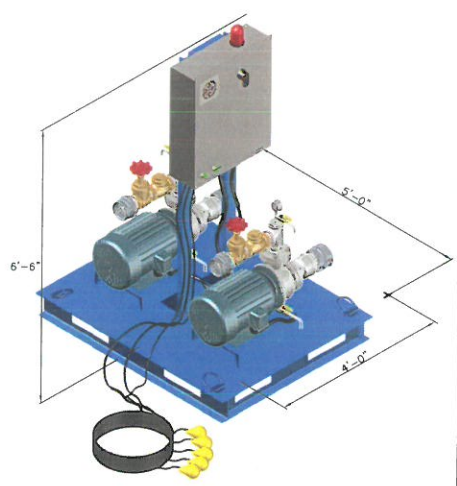
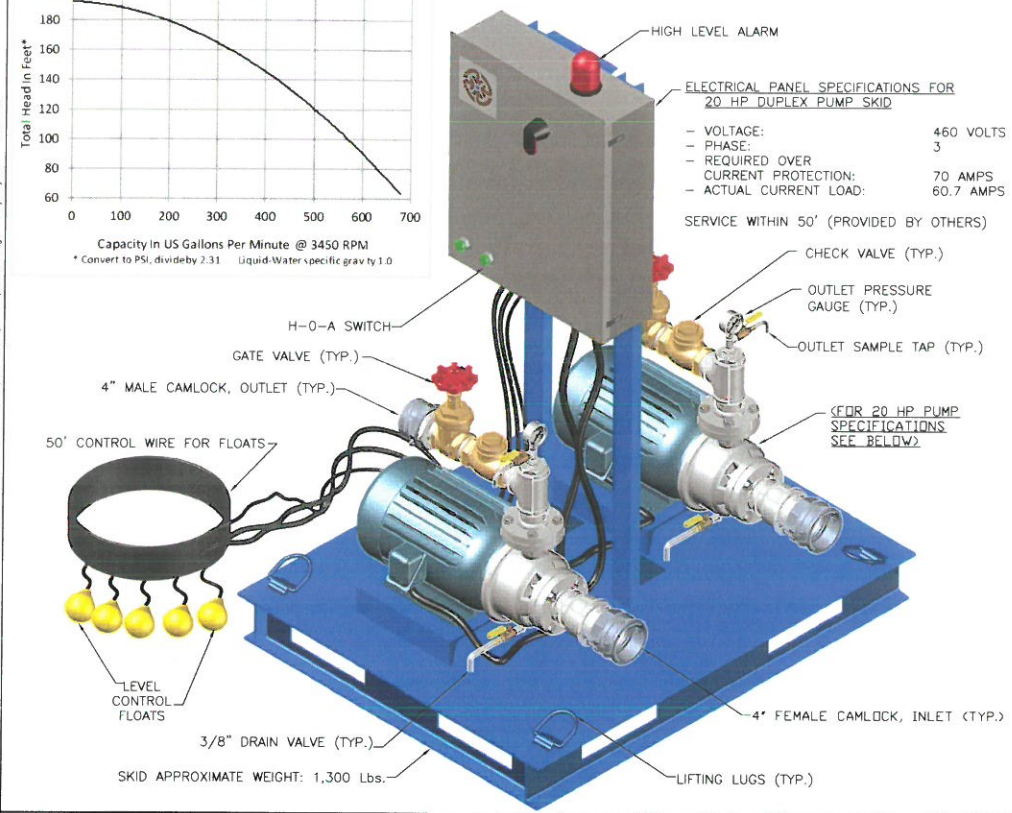
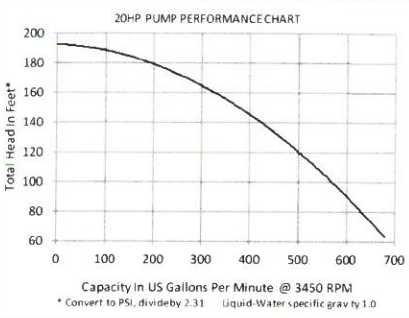
- Heating coils
- Level gauges (fixed or temporary)
- External or internal manifold
- White exterior for MSS compliance
- Audible alarms, strobes and level gauges (digital and mechanical)

Comprehensive Service

Adler Tank Rentals provides containment solutions for hazardous and non-hazardous liquids and solids. We offer 24-hour emergency service, expert planning assistance, transportation, repair and cleaning services. All of our rental equipment is serviced by experienced Adler technicians and tested to exceed even the most stringent industry standards.



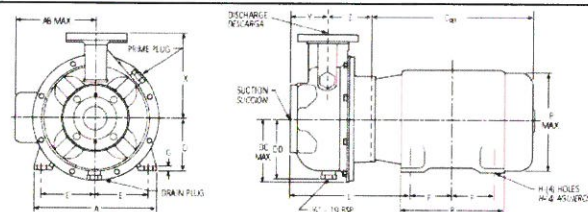
T:\odt Files\Rentals - STANDARD DRAWINGS\EQUIPMENT SPECIFICATION\PUMPS\Centrifugal Pumps\20HP\ST-0008-SPC Rev-E Duplex 20 Hp Pump Skid.dwg - 12/23/14 - 6:23 AM



NOTE: THIS DRAWING DEPICTS A "TYPICAL" SKID. ACTUAL DETAILS AND DIMENSIONS MAY VARY.

20 HP PUMP MECHANICAL/ELECTRICAL SPECIFICATIONS

- TYPICAL CAPACITY AND HEAD: 500 GPM @ 115' TDH
- CONSTRUCTION: STAINLESS STEEL
- MAXIMUM HEAD: 190 FT.
- MAXIMUM FLOW: 680 GPM
- FRAME: 256TCZ
- ENCLOSURE: TEFC
- SUCTION: 3" NPT
- DISCHARGE: 2-1/2" NPT
- PUMP WEIGHT: 470 Lbs.
- IMPELLER DIAMETER: 6-15/16"
- DRIVER: 2 POLE 3500 RPM



A: 11.25	D: 6.25	G: 0.25	Pass: 11.5	X: 2.8	L: 12.375
AB: 9	E: 5.0	Case: 18.625	DCase: 6.0	Y: 4.8	
B: 11.75	F: 5.0	Max: 0.5313	DD: 4.75	Z: N/A	

E	REVISED TITLEBLOCK AND PUMP GRAPHICS.	12/22/14
D	CHANGED PERFORMANCE CHART.	10/14/08
NO.	REVISIONS	DATE

CUSTOMER: _____

SITE: _____

TITLE: **DUPLEX 20 Hp PUMP SKID STANDARD EQUIPMENT SPECIFICATION**

SCALE: NTS APPROVED BY: JB DRAWN BY: AAV

DATE: 01/04/08

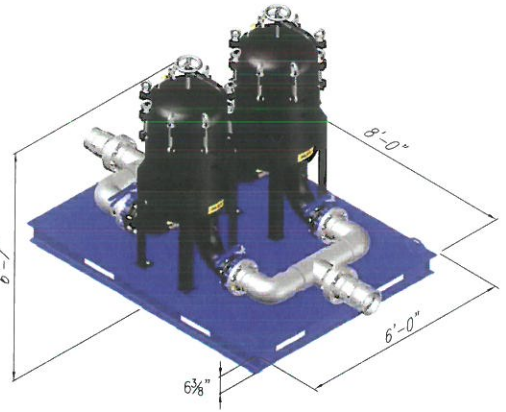
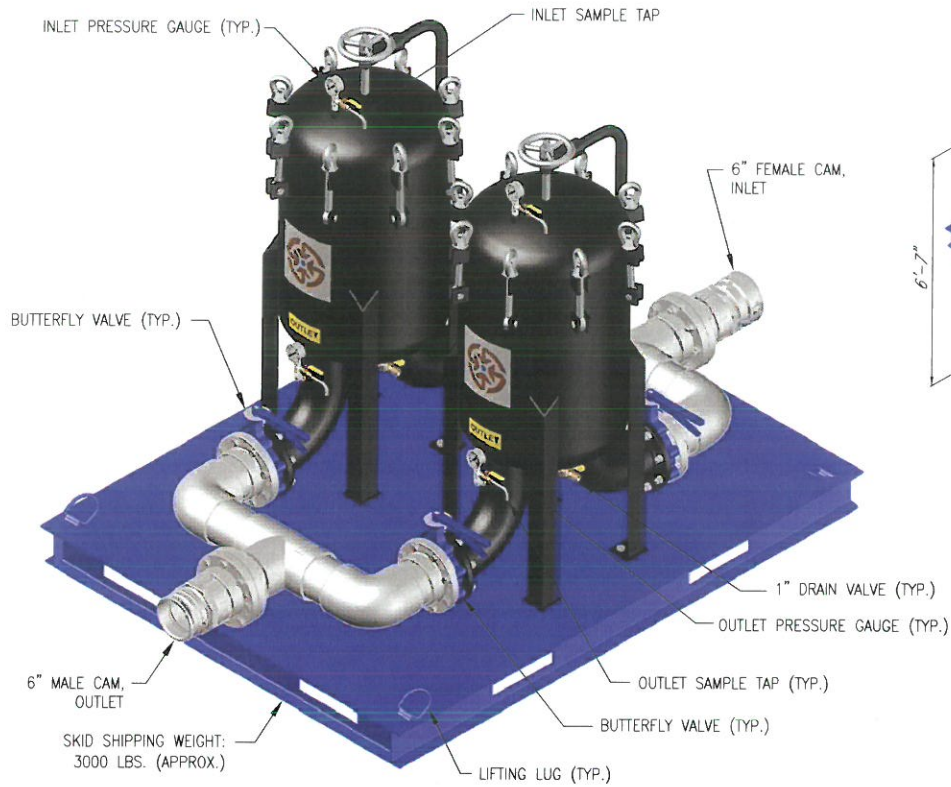
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GWTT
 Ground/Water Treatment & Technology, LLC

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DWG SIZE: A SHEET: 1 OF 1 DRAWING NO.: ST-0008-SPC E

T:\Cod Files\Rentals - STANDARD DRAWINGS\EQUIPMENT SPECIFICATION\BAG FILTERS\Duplex\ST-0001-SPC_Rev-G_Duplex Six Bag Filter Skid.dwg - 1/6/15 - 11:14 AM

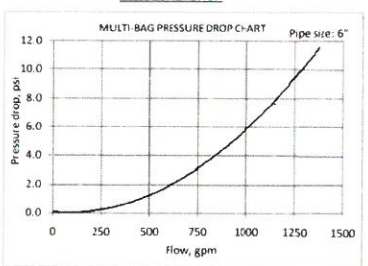


NOTE: THIS DRAWING DEPICTS A "TYPICAL" SKID. ACTUAL DETAILS AND DIMENSIONS MAY VARY.

G	REVISED TITLEBLOCK.	11/24/14
F	ADDED CAMLOCK CONNECTIONS	05/13/14
E	ADDED SKID WEIGHT	02/18/09
NO.	REVISIONS	DATE

CUSTOMER: _____
SITE: _____

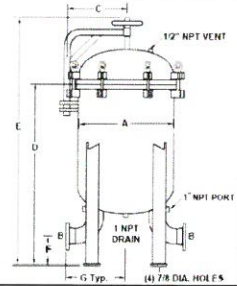
PRESSURE DROP



MULTI-BAG FILTER SPECIFICATIONS

- CONSTRUCTION: CARBON STEEL STANDARD
- HOUSING STYLE: STANDARD
- NUMBER OF BASKETS: 6
- STRAINING FILTERING AREA: 26.4 SQ. FT.
- INLET/OUTLET SIZE: 6"
- DRAIN SIZE: 1"
- NOMINAL FLOW RATE: 600 GPM
- STANDARD PRESSURE: 150 PSI
- WEIGHT (PER DRY UNIT): 750 Lbs.

BASIC DIMENSIONS
 MODEL NUMBER & A: 24"
 LEG BOLT CIRCLE: Ø22.0
 B: 6" C: 15.0"
 D: 50.7" E: 69.7"
 F: 7.00" G: 20.1"



TITLE: EQUIPMENT SPECIFICATION
 STANDARD
 DUPLEX SIX BAG FILTER SKID, 6" IN-OUT

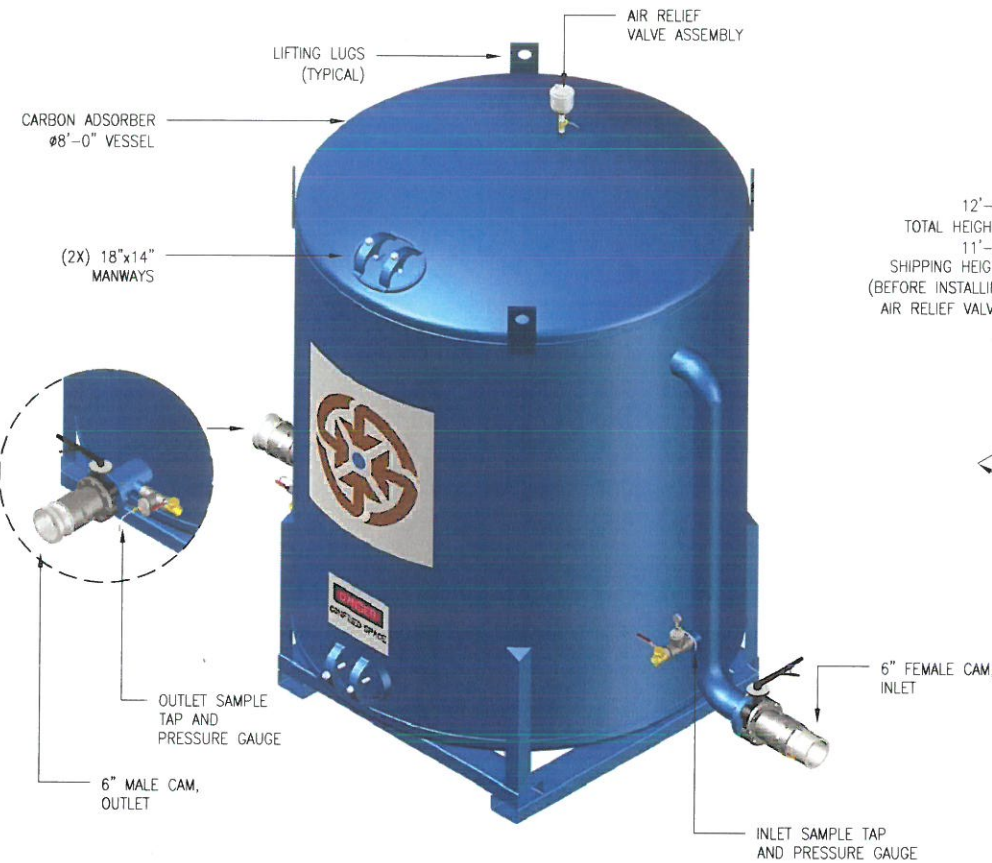
SCALE: NTS	APPROVED BY: JB	DRAWN BY: AAV
DATE: 01/23/08		

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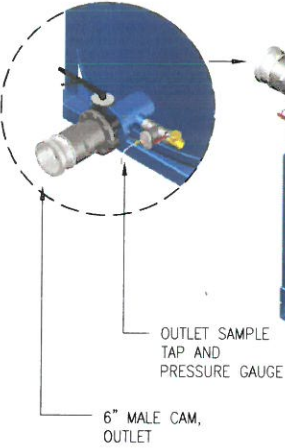
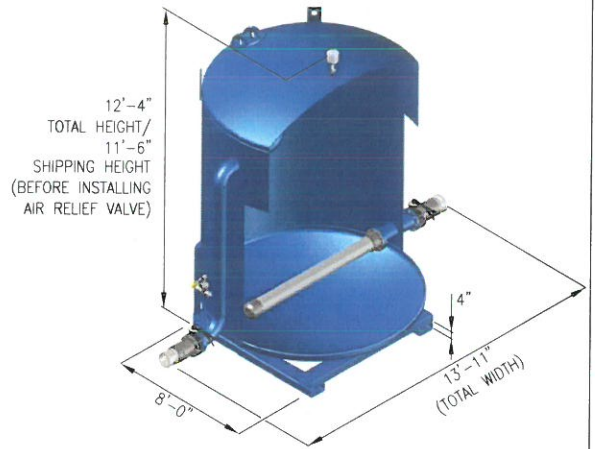
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DWG SIZE: A SHEET: 1 OF 1 DRAWING NO.: ST-0001-SPC G

D:\C:\od Files\Rentals - STANDARD DRAWINGS\EQUIPMENT SPECIFICATION\CARBON ADSORBERS\10000 LBST-000032-SPC01(E).dwg - Thu, 17 Sep 2015 - 14:41



NOTE: THIS DRAWING DEPICTS A "TYPICAL" VESSEL. ACTUAL DETAILS AND DIMENSIONS MAY VARY.



10,000 POUNDS CARBON ADSORBER SPECIFICATIONS

- CARBON FILL: 10,000 Lbs.
 - DESIGN STANDARD PRESSURE: 75 PSI
 - MAX FLOW RATE: 500 GPM
 - EBCT: 5.25 min. @ 100 GPM
 - HOUSING CONSTRUCTION: A-36 CARBON STEEL
 - INLET CONNECTION: 6" FEMALE CAMLOCK
 - OUTLET CONNECTION: 6" MALE CAMLOCK
 - DRAIN: N/A
- CARBON FILL VOLUME: 350 Cu. ft.
 - CARBON ADSORBER WEIGHT: 5,000 Lbs.
 - EMPTY
 - SHIPPING (W/CARBON): 15,000 Lbs.
 - OPERATING: 30,000 Lbs.

E	UPDATED TO NEW CAD STANDARDS	RJS	09/17/15
D	ADDED CAMLOCK CONNECTIONS	RJS	05/12/14
C	ADDED BREAKAWAY VIEW	RJS	05/10/12
B	TYPICAL	AAV	05/26/09
NO.	REVISIONS	BY	DATE

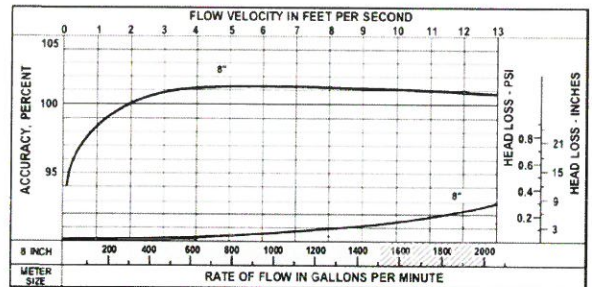
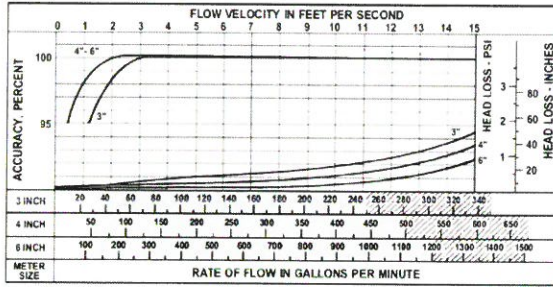
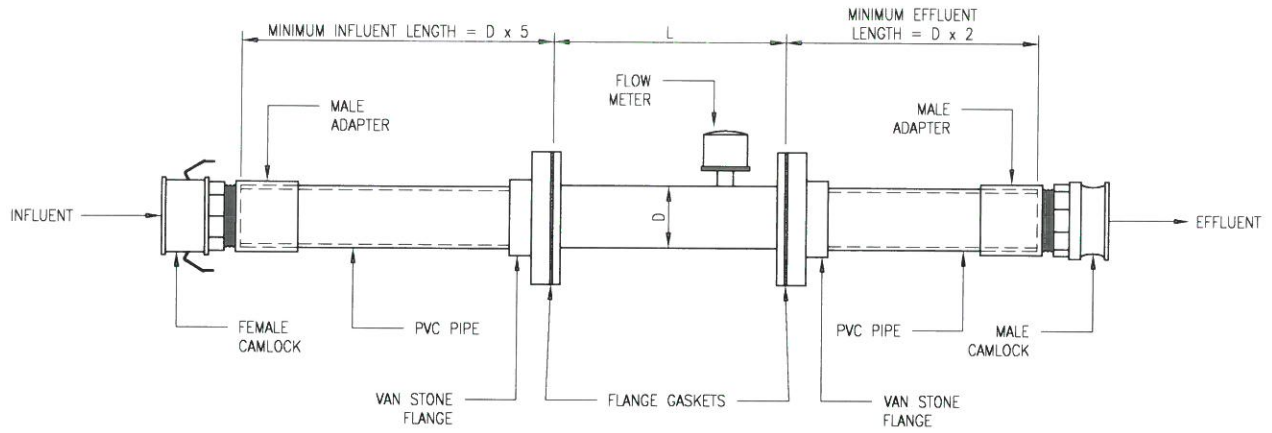
TITLE: **EQUIPMENT SPECIFICATION
STANDARD
10,000 LBS CARBON ADSORBER**

SCALE: NTS	APPROVED BY: RJS	DRAWN BY: RJS
DATE: 09/17/15		


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DWG SIZE: A SHEET: 1 OF 1 DRAWING NO.: ST-000032-SPC01 E



MF100 FLOW METER SPECIFICATIONS				
METER SIZE, D (INCHES):	3	4	6	8
MAXIMUM FLOW U.S. GPM:	250	600	1200	1500
MINIMUM FLOW U.S. GPM:	40	50	90	100
HEAD LOSS IN INCHES AT MAX FLOW:	29.50	23.00	17.00	6.75
H (INCHES):	12.91	13.66	16.03	17.28
L (INCHES):	13	20	20	20
O.D. OF METER TUBE:	3.50	4.50	6.625	8.625
MIN. INFLUENT LENGTH (INCHES):	15	20	30	40
MIN. EFFLUENT LENGTH (INCHES):	6	8	12	16
MAXIMUM TEMPERATURE:	160°F CONSTANT			
PRESSURE RATING:	150 PSI			

B	UPDATED TO NEW CAD STANDARDS	RJS	09/03/15
A	PRELIMINARY DESIGN	AAV	01/28/09
NO.	REVISIONS	BY	DATE
TITLE: EQUIPMENT SPECIFICATION STANDARD FLOW METER ASSEMBLY			
SCALE:	NTS	APPROVED BY:	MSM
DATE:	01/28/09	DRAWN BY: AAV	
		627 MOUNT HOPE ROAD - WHARTON, NJ 07885 PHONE: 973-983-0901 • FAX: 973-983-0903 www.gwttllc.com	
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DWG SIZE:	A	SHEET: 1 OF 1	DRAWING NO.: ST-000052-SPC01 B



Monday, October 10, 2016

Attn: Mr. Joe Mahon
Moretrench
51 Smart Avenue
Yonkers, NY 10704

Project ID: SOUTH BEACH SEWERS
Sample ID#s: BV36754 - BV36756

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 10, 2016

FOR: Attn: Mr. Joe Mahon
 Moretrench
 51 Smart Avenue
 Yonkers, NY 10704

Sample Information

Matrix: GW DISCHARGE
 Location Code: MORETRENCH
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: JM
 Received by: SW
 Analyzed by: see "By" below

Date Time
 10/03/16 12:00
 10/04/16 15:22

Laboratory Data

SDG ID: GBV36754
 Phoenix ID: BV36754

Project ID: SOUTH BEACH SEWERS
 Client ID: B-226

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/05/16	EK	E200.7
Arsenic	< 0.004	0.004	mg/L	1	10/05/16	EK	E200.7
Beryllium	< 0.001	0.001	mg/L	1	10/05/16	EK	E200.7
Cadmium	< 0.001	0.001	mg/L	1	10/05/16	EK	E200.7
Chromium	0.022	0.001	mg/L	1	10/05/16	EK	E200.7
Copper	0.014	0.005	mg/L	1	10/05/16	EK	E200.7
Mercury	< 0.0002	0.0002	mg/L	1	10/05/16	RS	E245.1
Nickel	0.076	0.001	mg/L	1	10/05/16	EK	E200.7
Lead	0.012	0.002	mg/L	1	10/05/16	EK	E200.7
Antimony	< 0.005	0.005	mg/L	1	10/08/16	LK	E200.7
Selenium	< 0.010	0.010	mg/L	1	10/05/16	EK	E200.7
Thallium	< 0.001	0.001	mg/L	1	10/06/16	MA/TH	E279.2/SM3113B
Zinc	0.055	0.002	mg/L	1	10/05/16	EK	E200.7
Nitrite-N	< 0.010	0.010	mg/L	1	10/04/16 19:05	GD	E353.2
Nitrate-N	2.56	0.04	mg/L	2	10/04/16 19:10	GD	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	10/06/16	MSF	E1664A
pH	7.83	0.10	pH Units	1	10/05/16 12:49	RR/EG	SM4500-H B-00
Settleable Solids	6.0	0.1	ml/L	1	10/04/16 21:00	DH/KDB	SM2540F-97
Total Suspended Solids	170	7.1	mg/L	1.4	10/06/16	KH	SM2540D-97
Mercury Digestion	Completed				10/05/16	W/W	E245.1
Total Metals Digestion	Completed				10/04/16	AG	

Volatiles

1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/04/16	MH	E601/E602/E624
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,1-Dichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,1-Dichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,2-Dichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,2-Dichloropropane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Benzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Bromodichloromethane	ND	0.50	ug/L	1	10/04/16	MH	E601/E602/E624
Bromoform	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Bromomethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Carbon tetrachloride	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chloroform	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chloromethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/04/16	MH	E601/E602/E624
Dibromochloromethane	ND	0.50	ug/L	1	10/04/16	MH	E601/E602/E624
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Ethylbenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
m&p-Xylene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	10/04/16	MH	E601/E602/E624
Methylene chloride	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
o-Xylene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Tetrachloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Toluene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/04/16	MH	E601/E602/E624
Trichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Trichlorofluoromethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Vinyl chloride	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	10/04/16	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	10/04/16	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	10/04/16	MH	70 - 130 %
% Toluene-d8	100		%	1	10/04/16	MH	70 - 130 %

Project ID: SOUTH BEACH SEWERS
Client ID: B-226

Phoenix I.D.: BV36754

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

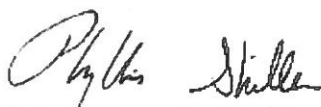
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 10, 2016

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 10, 2016

FOR: Attn: Mr. Joe Mahon
 Moretrench
 51 Smart Avenue
 Yonkers, NY 10704

Sample Information

Matrix: GW DISCHARGE
 Location Code: MORETRENCH
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: JM
 Received by: SW
 Analyzed by: see "By" below

Date Time
 10/03/16 13:00
 10/04/16 15:22

Laboratory Data

SDG ID: GBV36754
 Phoenix ID: BV36755

Project ID: SOUTH BEACH SEWERS
 Client ID: B-15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/05/16	EK	E200.7
Arsenic	< 0.004	0.004	mg/L	1	10/05/16	EK	E200.7
Beryllium	< 0.001	0.001	mg/L	1	10/05/16	EK	E200.7
Cadmium	< 0.001	0.001	mg/L	1	10/05/16	EK	E200.7
Chromium	0.005	0.001	mg/L	1	10/05/16	EK	E200.7
Copper	< 0.005	0.005	mg/L	1	10/05/16	EK	E200.7
Mercury	< 0.0002	0.0002	mg/L	1	10/05/16	RS	E245.1
Nickel	0.015	0.001	mg/L	1	10/05/16	EK	E200.7
Lead	< 0.002	0.002	mg/L	1	10/05/16	EK	E200.7
Antimony	< 0.005	0.005	mg/L	1	10/08/16	LK	E200.7
Selenium	< 0.010	0.010	mg/L	1	10/05/16	EK	E200.7
Thallium	< 0.001	0.001	mg/L	1	10/06/16	MA/TH	E279.2/SM3113B
Zinc	0.032	0.002	mg/L	1	10/05/16	EK	E200.7
Nitrite-N	< 0.010	0.010	mg/L	1	10/04/16 19:06	GD	E353.2
Nitrate-N	1.07	0.02	mg/L	1	10/04/16 19:06	GD	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	10/06/16	MSF	E1664A
pH	8.07	0.10	pH Units	1	10/05/16 12:51	RR/EG	SM4500-H B-00
Settleable Solids	< 0.1	0.1	ml/L	1	10/04/16 21:00	DH/KDB	SM2540F-97
Total Suspended Solids	26	5.0	mg/L	1	10/06/16	KH	SM2540D-97
Mercury Digestion	Completed				10/05/16	W/W	E245.1
Total Metals Digestion	Completed				10/04/16	AG	

Volatiles

1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/04/16	MH	E601/E602/E624
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,1-Dichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,1-Dichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,2-Dichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,2-Dichloropropane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Benzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Bromodichloromethane	ND	0.50	ug/L	1	10/04/16	MH	E601/E602/E624
Bromoform	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Bromomethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Carbon tetrachloride	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chloroform	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chloromethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/04/16	MH	E601/E602/E624
Dibromochloromethane	ND	0.50	ug/L	1	10/04/16	MH	E601/E602/E624
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Ethylbenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
m&p-Xylene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	10/04/16	MH	E601/E602/E624
Methylene chloride	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
o-Xylene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Tetrachloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Toluene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/04/16	MH	E601/E602/E624
Trichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Trichlorofluoromethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Vinyl chloride	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	10/04/16	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	10/04/16	MH	70 - 130 %
% Dibromofluoromethane	100		%	1	10/04/16	MH	70 - 130 %
% Toluene-d8	100		%	1	10/04/16	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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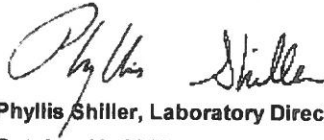
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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Phyllis Shiller, Laboratory Director

October 10, 2016

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 10, 2016

FOR: Attn: Mr. Joe Mahon
 Moretrench
 51 Smart Avenue
 Yonkers, NY 10704

Sample Information

Matrix: GW DISCHARGE
 Location Code: MORETRENCH
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: JM
 Received by: SW
 Analyzed by: see "By" below

Date Time
 10/03/16 13:33
 10/04/16 15:22

Laboratory Data

SDG ID: GBV36754
 Phoenix ID: BV36756

Project ID: SOUTH BEACH SEWERS
 Client ID: B-144

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/05/16	EK	E200.7
Arsenic	0.005	0.004	mg/L	1	10/05/16	EK	E200.7
Beryllium	< 0.001	0.001	mg/L	1	10/05/16	EK	E200.7
Cadmium	< 0.001	0.001	mg/L	1	10/05/16	EK	E200.7
Chromium	0.031	0.001	mg/L	1	10/05/16	EK	E200.7
Copper	0.040	0.005	mg/L	1	10/05/16	EK	E200.7
Mercury	< 0.0002	0.0002	mg/L	1	10/05/16	RS	E245.1
Nickel	0.173	0.001	mg/L	1	10/05/16	EK	E200.7
Lead	0.030	0.002	mg/L	1	10/05/16	EK	E200.7
Antimony	< 0.005	0.005	mg/L	1	10/08/16	LK	E200.7
Selenium	< 0.010	0.010	mg/L	1	10/05/16	EK	E200.7
Thallium	< 0.001	0.001	mg/L	1	10/06/16	MA/TH	E279.2/SM3113B
Zinc	0.103	0.002	mg/L	1	10/05/16	EK	E200.7
Nitrite-N	0.036	0.010	mg/L	1	10/04/16 19:07	GD	E353.2
Nitrate-N	0.10	0.02	mg/L	1	10/04/16 19:07	GD	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	10/06/16	MSF	E1664A
pH	7.93	0.10	pH Units	1	10/05/16 12:53	RR/EG	SM4500-H B-00
Settleable Solids	2.0	0.1	ml/L	1	10/04/16 21:00	DH/KDB	SM2540F-97
Total Suspended Solids	78	5.0	mg/L	1	10/06/16	KH	SM2540D-97
Mercury Digestion	Completed				10/05/16	W/W	E245.1
Total Metals Digestion	Completed				10/04/16	AG	

Volatiles

1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/04/16	MH	E601/E602/E624
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,1-Dichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,1-Dichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,2-Dichloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,2-Dichloropropane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Benzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Bromodichloromethane	ND	0.50	ug/L	1	10/04/16	MH	E601/E602/E624
Bromoform	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Bromomethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Carbon tetrachloride	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chlorobenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chloroethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chloroform	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Chloromethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/04/16	MH	E601/E602/E624
Dibromochloromethane	ND	0.50	ug/L	1	10/04/16	MH	E601/E602/E624
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Ethylbenzene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
m&p-Xylene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	10/04/16	MH	E601/E602/E624
Methylene chloride	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
o-Xylene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Tetrachloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Toluene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/04/16	MH	E601/E602/E624
Trichloroethene	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Trichlorofluoromethane	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
Vinyl chloride	ND	1.0	ug/L	1	10/04/16	MH	E601/E602/E624
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	10/04/16	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	10/04/16	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	10/04/16	MH	70 - 130 %
% Toluene-d8	100		%	1	10/04/16	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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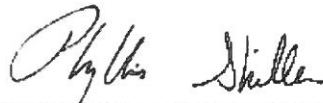
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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Phyllis Shiller, Laboratory Director

October 10, 2016

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

October 10, 2016

QA/QC Data

SDG I.D.: GBV36754

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 361375 (mg/L), QC Sample No: BV35740 (BV36754, BV36755, BV36756)													
ICP Metals - Aqueous													
Antimony	BRL	0.005	<0.005	<0.005	NC	112			114			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	106			104			75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	110			115			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	114			104			75 - 125	20
Chromium	BRL	0.001	<0.001	0.001	NC	108			109			75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	97.8			110			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	112			107			75 - 125	20
Nickel	BRL	0.001	<0.001	<0.001	NC	110			109			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	101			103			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	102			110			75 - 125	20
Zinc	BRL	0.002	0.003	0.003	NC	106			108			75 - 125	20
QA/QC Batch 361444 (mg/L), QC Sample No: BV35913 (BV36754, BV36755, BV36756)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	97.6			88.1			70 - 130	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 361576 (mg/L), QC Sample No: BV37248 (BV36754, BV36755, BV36756)													
Thallium - Water	BRL	0.001	<0.001	<0.001	NC	90.6			90.2			75 - 125	20



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QA/QC Report

October 10, 2016

QA/QC Data

SDG I.D.: GBV36754

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 361688 (mg/L), QC Sample No: BV35696 (BV36754, BV36755, BV36756)													
Oil and Grease by EPA 1664A	BRL	1.4				101						85 - 115	20
QA/QC Batch 361700 (mg/L), QC Sample No: BV35962 (BV36754, BV36755, BV36756)													
Total Suspended Solids	BRL	5.0	<5.0	<5.0	NC	93.0						85 - 115	20
QA/QC Batch 361583 (pH), QC Sample No: BV36044 (BV36754, BV36755, BV36756)													
pH			7.41	7.40	0.10	98.6						85 - 115	20
QA/QC Batch 361395 (mg/L), QC Sample No: BV36798 (BV36754, BV36755, BV36756)													
Nitrate-N	BRL	0.02	2.10	2.08	1.00	97.7			105			85 - 115	20
Nitrite as Nitrogen	BRL	0.01	<0.01	<0.01	NC	97.2			94.0			85 - 115	20



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QA/QC Report

October 10, 2016

QA/QC Data

SDG I.D.: GBV36754

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 361462 (ug/L), QC Sample No: BV35695 (BV36754, BV36755, BV36756)										
Volatiles										
1,1,1-Trichloroethane	ND	1.0	99	95	4.1	87	92	5.6	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	108	108	0.0	101	105	3.9	70 - 130	30
1,1,2-Trichloroethane	ND	1.0	100	101	1.0	94	101	7.2	70 - 130	30
1,1-Dichloroethane	ND	1.0	96	104	8.0	96	103	7.0	70 - 130	30
1,1-Dichloroethene	ND	1.0	91	100	9.4	89	98	9.6	70 - 130	30
1,2-Dichlorobenzene	ND	1.0	102	103	1.0	91	99	8.4	70 - 130	30
1,2-Dichloroethane	ND	1.0	101	104	2.9	101	104	2.9	70 - 130	30
1,2-Dichloropropane	ND	1.0	100	105	4.9	94	99	5.2	70 - 130	30
1,3-Dichlorobenzene	ND	1.0	104	108	3.8	93	99	6.3	70 - 130	30
1,4-Dichlorobenzene	ND	1.0	104	105	1.0	92	99	7.3	70 - 130	30
Benzene	ND	0.70	98	104	5.9	93	98	5.2	70 - 130	30
Bromodichloromethane	ND	0.50	103	107	3.8	95	102	7.1	70 - 130	30
Bromoform	ND	1.0	110	103	6.6	86	98	13.0	70 - 130	30
Bromomethane	ND	1.0	77	83	7.5	56	75	29.0	70 - 130	30
Carbon tetrachloride	ND	1.0	98	101	3.0	88	95	7.7	70 - 130	30
Chlorobenzene	ND	1.0	101	106	4.8	91	100	9.4	70 - 130	30
Chloroethane	ND	1.0	82	90	9.3	88	97	9.7	70 - 130	30
Chloroform	ND	1.0	95	102	7.1	95	101	6.1	70 - 130	30
Chloromethane	ND	1.0	83	90	8.1	77	84	8.7	70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	96	106	9.9	97	104	7.0	70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	103	106	2.9	95	100	5.1	70 - 130	30
Dibromochloromethane	ND	0.50	113	114	0.9	95	107	11.9	70 - 130	30
Dichlorodifluoromethane	ND	1.0	77	82	6.3	76	81	6.4	70 - 130	30
Ethylbenzene	ND	1.0	101	106	4.8	93	100	7.3	70 - 130	30
m&p-Xylene	ND	1.0	102	109	6.6	93	101	8.2	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	96	96	0.0	95	97	2.1	70 - 130	30
Methylene chloride	ND	1.0	96	103	7.0	99	103	4.0	70 - 130	30
o-Xylene	ND	1.0	105	108	2.8	93	101	8.2	70 - 130	30
Tetrachloroethene	ND	1.0	99	102	3.0	86	96	11.0	70 - 130	30
Toluene	ND	1.0	98	105	6.9	92	97	5.3	70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	97	105	7.9	96	103	7.0	70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	105	104	1.0	94	101	7.2	70 - 130	30
Trichloroethene	ND	1.0	101	106	4.8	92	98	6.3	70 - 130	30
Trichlorofluoromethane	ND	1.0	85	90	5.7	88	96	8.7	70 - 130	30
Vinyl chloride	ND	1.0	85	91	6.8	82	89	8.2	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	96	%	101	99	2.0	99	102	3.0	70 - 130	30
% Dibromofluoromethane	95	%	101	96	5.1	102	101	1.0	70 - 130	30
% Toluene-d8	99	%	98	99	1.0	100	100	0.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Data

SDG I.D.: GBV36754

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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m = This parameter is outside laboratory MS/MSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

October 10, 2016

Monday, October 10, 2016

Criteria: NY: DEP EFF

State: NY

Sample Criteria Exceedences Report

GBV38754 - MORETRENCH

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



NY Temperature Narration

October 10, 2016

SDG I.D.: GBV36754

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726

Cooler: Yes No
 ICE: Yes No
 Temp 4 °C Pg of

Data Delivery: Fax # _____
 Email: phoenix@phoenixlabs.com

Customer: North Beach America Project: South Beach Sewers Project P.O.: _____
 Address: 51 South Ave Report to: _____
Southern, NY Invoice to: _____
 Phone #: _____
 Fax #: _____

This section MUST be completed with Bottle Quantities.

Sampler's Signature	Client Sample Identification	Date	Analysis Request
<i>[Signature]</i>	<u>B-226</u>	<u>10/3/16</u>	<u>SW</u>
<i>[Signature]</i>	<u>B-15</u>	<u>10/3/16</u>	<u>SW</u>
<i>[Signature]</i>	<u>B-14A</u>	<u>10/3/16</u>	<u>SW</u>

Client Sample - Information / Identification Date: 10/3/16 Analysis Request

Matrix Code: SW
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
<u>36754</u>	<u>B-226</u>	<u>GW</u>	<u>10/3/16</u>	<u>12:00</u>
<u>36755</u>	<u>B-15</u>	<u>GW</u>	<u>10/3/16</u>	<u>1:00</u>
<u>36756</u>	<u>B-14A</u>	<u>GW</u>	<u>10/3/16</u>	<u>1:30</u>

Relinquished by: [Signature] Accepted by: [Signature]

Date: 10-4-16 Time: 9:00
10-4-16 15:22

Turnaround: 1 Day* 2 Days* 3 Days* Standard Other _____

Comments, Special Requirements or Regulations:
South Beach DDC
Sewers

RI: Direct Exposure (Residential) GW Other

CT: RCP Cert GW Protection SW Protection GA Mobility GB Mobility Residential DEC IIC DEC Other _____

MA: MCP Certification GW-1 GW-2 GW-3 S-1 S-2 S-3 MWRA eSMART Other _____

Data Format: Excel PDF GIS/Key EQUIS Other _____

Data Package: Tier II Checklist Full Data Package* Phoenix Std Report Other _____

State where samples were collected: NY

* SURCHARGE APPLIES



Tuesday, October 11, 2016

Attn: Mr. Joe Mahon
Moretrench
51 Smart Avenue
Yonkers, NY 10704

Project ID: SOUTH BEACH
Sample ID#s: BV35223 - BV35225

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style with a large initial "P".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 11, 2016

FOR: Attn: Mr. Joe Mahon
 Moretrench
 51 Smart Avenue
 Yonkers, NY 10704

Sample Information

Matrix: GW DISCHARGE
 Location Code: MORETRENCH
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: JM
 Received by: SW
 Analyzed by: see "By" below

Date: 10/03/16
 Time: 6:30
 10/03/16 15:53

Laboratory Data

SDG ID: GBV35223
 Phoenix ID: BV35223

Project ID: SOUTH BEACH
 Client ID: B-49

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/06/16	EK	E200.7
Arsenic	0.005	0.004	mg/L	1	10/06/16	LK	E200.7
Beryllium	< 0.001	0.001	mg/L	1	10/06/16	EK	E200.7
Cadmium	< 0.001	0.001	mg/L	1	10/06/16	EK	E200.7
Chromium	0.002	0.001	mg/L	1	10/06/16	EK	E200.7
Copper	< 0.005	0.005	mg/L	1	10/06/16	EK	E200.7
Mercury	< 0.0002	0.0002	mg/L	1	10/05/16	RS	E245.1
Nickel	0.015	0.001	mg/L	1	10/06/16	EK	E200.7
Lead	0.021	0.002	mg/L	1	10/06/16	EK	E200.7
Antimony	< 0.005	0.005	mg/L	1	10/06/16	EK	E200.7
Selenium	< 0.010	0.010	mg/L	1	10/06/16	EK	E200.7
Thallium	< 0.001	0.001	mg/L	1	10/06/16	MA/TH	E279.2/SM3113B
Zinc	0.015	0.002	mg/L	1	10/06/16	EK	E200.7
Nitrite-N	< 0.010	0.010	mg/L	1	10/03/16 21:48	GD	E353.2
Nitrate-N	0.03	0.02	mg/L	1	10/03/16 21:48	GD	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	10/06/16	MSF	E1664A
pH	6.83	0.10	pH Units	1	10/04/16 06:01	RR/EG	SM4500-H B-00
Settleable Solids	< 0.1	0.1	ml/L	1	10/03/16 18:00	DH/KDB	SM2540F-97
Total Suspended Solids	60	5.0	mg/L	1	10/05/16	CL	SM2540D-97
Mercury Digestion	Completed				10/05/16	WW	E245.1
Total Metals Digestion	Completed				10/04/16	AG	

Volatiles

1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/03/16	MH	E601/E602/E624
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,1-Dichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,1-Dichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,2-Dichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,2-Dichloropropane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Benzene	2.2	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Bromodichloromethane	ND	0.50	ug/L	1	10/03/16	MH	E601/E602/E624
Bromoform	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Bromomethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Carbon tetrachloride	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chloroform	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chloromethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/03/16	MH	E601/E602/E624
Dibromochloromethane	ND	0.50	ug/L	1	10/03/16	MH	E601/E602/E624
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Ethylbenzene	21	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
m&p-Xylene	4.0	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	10/03/16	MH	E601/E602/E624
Methylene chloride	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
o-Xylene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Tetrachloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Toluene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/03/16	MH	E601/E602/E624
Trichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Trichlorofluoromethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Vinyl chloride	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	10/03/16	MH	70 - 130 %
% Bromofluorobenzene	90		%	1	10/03/16	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	10/03/16	MH	70 - 130 %
% Toluene-d8	98		%	1	10/03/16	MH	70 - 130 %

Project ID: SOUTH BEACH
Client ID: B-49

Phoenix I.D.: BV35223

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

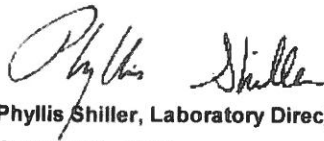
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

October 11, 2016

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report
 October 11, 2016

FOR: Attn: Mr. Joe Mahon
 Moretrench
 51 Smart Avenue
 Yonkers, NY 10704

Sample Information

Matrix: GW DISCHARGE
 Location Code: MORETRENCH
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: JM
 Received by: SW
 Analyzed by: see "By" below

Date Time
 10/03/16 6:15
 10/03/16 15:53

Laboratory Data

SDG ID: GBV35223
 Phoenix ID: BV35224

Project ID: SOUTH BEACH
 Client ID: B-64

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/06/16	EK	E200.7
Arsenic	0.004	0.004	mg/L	1	10/06/16	LK	E200.7
Beryllium	< 0.001	0.001	mg/L	1	10/06/16	EK	E200.7
Cadmium	< 0.001	0.001	mg/L	1	10/06/16	EK	E200.7
Chromium	0.007	0.001	mg/L	1	10/06/16	EK	E200.7
Copper	0.012	0.005	mg/L	1	10/06/16	EK	E200.7
Mercury	< 0.0002	0.0002	mg/L	1	10/05/16	RS	E245.1
Nickel	0.021	0.001	mg/L	1	10/06/16	EK	E200.7
Lead	0.003	0.002	mg/L	1	10/06/16	EK	E200.7
Antimony	< 0.005	0.005	mg/L	1	10/11/16	EK	E200.7
Selenium	< 0.010	0.010	mg/L	1	10/06/16	EK	E200.7
Thallium	< 0.001	0.001	mg/L	1	10/06/16	MA/TH	E279.2/SM3113B
Zinc	0.049	0.002	mg/L	1	10/06/16	EK	E200.7
Nitrite-N	< 0.010	0.010	mg/L	1	10/03/16 21:49	GD	E353.2
Nitrate-N	< 0.02	0.02	mg/L	1	10/03/16 21:49	GD	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	10/06/16	MSF	E1664A
pH	7.33	0.10	pH Units	1	10/04/16 06:08	RR/EG	SM4500-H B-00
Settleable Solids	< 0.1	0.1	ml/L	1	10/03/16 18:00	DH/KDB	SM2540F-97
Total Suspended Solids	72	5.0	mg/L	1	10/05/16	CL	SM2540D-97
Mercury Digestion	Completed				10/05/16	W/W	E245.1
Total Metals Digestion	Completed				10/04/16	AG	

Volatiles

1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/03/16	MH	E601/E602/E624
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,1-Dichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,1-Dichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,2-Dichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,2-Dichloropropane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Benzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Bromodichloromethane	ND	0.50	ug/L	1	10/03/16	MH	E601/E602/E624
Bromoform	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Bromomethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Carbon tetrachloride	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chloroform	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chloromethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/03/16	MH	E601/E602/E624
Dibromochloromethane	ND	0.50	ug/L	1	10/03/16	MH	E601/E602/E624
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Ethylbenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
m&p-Xylene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	10/03/16	MH	E601/E602/E624
Methylene chloride	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
o-Xylene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Tetrachloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Toluene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/03/16	MH	E601/E602/E624
Trichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Trichlorofluoromethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Vinyl chloride	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	10/03/16	MH	70 - 130 %
% Bromofluorobenzene	90		%	1	10/03/16	MH	70 - 130 %
% Dibromofluoromethane	96		%	1	10/03/16	MH	70 - 130 %
% Toluene-d8	98		%	1	10/03/16	MH	70 - 130 %

Project ID: SOUTH BEACH
Client ID: B-64

Phoenix I.D.: BV35224

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

October 11, 2016

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report
 October 11, 2016

FOR: Attn: Mr. Joe Mahon
 Moretrench
 51 Smart Avenue
 Yonkers, NY 10704

Sample Information

Matrix: GW DISCHARGE
 Location Code: MORETRENCH
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by: JM
 Received by: SW
 Analyzed by: see "By" below

Date Time
 10/03/16 7:15
 10/03/16 15:53

Laboratory Data

SDG ID: GBV35223
 Phoenix ID: BV35225

Project ID: SOUTH BEACH
 Client ID: B-1A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/06/16	EK	E200.7
Arsenic	< 0.004	0.004	mg/L	1	10/06/16	EK	E200.7
Beryllium	< 0.001	0.001	mg/L	1	10/06/16	EK	E200.7
Cadmium	< 0.001	0.001	mg/L	1	10/06/16	EK	E200.7
Chromium	0.008	0.001	mg/L	1	10/06/16	EK	E200.7
Copper	0.006	0.005	mg/L	1	10/06/16	EK	E200.7
Mercury	< 0.0002	0.0002	mg/L	1	10/05/16	RS	E245.1
Nickel	0.203	0.001	mg/L	1	10/06/16	EK	E200.7
Lead	0.003	0.002	mg/L	1	10/06/16	EK	E200.7
Antimony	< 0.005	0.005	mg/L	1	10/06/16	EK	E200.7
Selenium	< 0.010	0.010	mg/L	1	10/06/16	EK	E200.7
Thallium	< 0.001	0.001	mg/L	1	10/06/16	MA/TH	E279.2/SM3113B
Zinc	0.666	0.002	mg/L	1	10/06/16	EK	E200.7
Nitrite-N	< 0.010	0.010	mg/L	1	10/03/16 21:50	GD	E353.2
Nitrate-N	4.60	0.08	mg/L	4	10/03/16 22:02	GD	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	10/06/16	MSF	E1664A
pH	7.40	0.10	pH Units	1	10/04/16 06:11	RR/EG	SM4500-H B-00 1
Settleable Solids	0.1	0.1	ml/L	1	10/03/16 18:00	DH/KDB	SM2540F-97
Total Suspended Solids	85	5.0	mg/L	1	10/05/16	CL	SM2540D-97
Mercury Digestion	Completed				10/05/16	WW	E245.1
Total Metals Digestion	Completed				10/04/16	AG	

Volatiles

1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/03/16	MH	E601/E602/E624
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,1-Dichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,1-Dichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624

Project ID: SOUTH BEACH
 Client ID: B-1A

Phoenix I.D.: BV35225

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,2-Dichloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,2-Dichloropropane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Benzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Bromodichloromethane	ND	0.50	ug/L	1	10/03/16	MH	E601/E602/E624
Bromoform	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Bromomethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Carbon tetrachloride	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chlorobenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chloroethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chloroform	1.1	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Chloromethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/03/16	MH	E601/E602/E624
Dibromochloromethane	ND	0.50	ug/L	1	10/03/16	MH	E601/E602/E624
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Ethylbenzene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
m&p-Xylene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	10/03/16	MH	E601/E602/E624
Methylene chloride	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
o-Xylene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Tetrachloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Toluene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/03/16	MH	E601/E602/E624
Trichloroethene	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Trichlorofluoromethane	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
Vinyl chloride	ND	1.0	ug/L	1	10/03/16	MH	E601/E602/E624
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	10/03/16	MH	70 - 130 %
% Bromofluorobenzene	90		%	1	10/03/16	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	10/03/16	MH	70 - 130 %
% Toluene-d8	98		%	1	10/03/16	MH	70 - 130 %

Project ID: SOUTH BEACH
Client ID: B-1A

Phoenix I.D.: BV35225

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL

BRL=Below Reporting Level

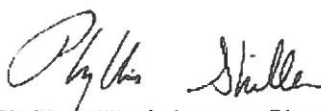
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

October 11, 2016

Reviewed and Released by: Bobbi Aloisa, Vice President



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 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report
 October 11, 2016

QA/QC Data

SDG I.D.: GBV35223

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 361370 (mg/L), QC Sample No: BV35644 (BV35223, BV35224, BV35225)													
ICP Metals - Aqueous													
Antimony	BRL	0.005	<0.005	<0.005	NC	106			104			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.6			98.4			75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	103			102			75 - 125	20
Cadmium	BRL	0.001	0.003	0.003	NC	101			100			75 - 125	20
Chromium	BRL	0.001	0.007	0.007	0	100			99.5			75 - 125	20
Copper	BRL	0.005	0.014	0.013	NC	97.0			98.3			75 - 125	20
Lead	BRL	0.002	0.012	0.014	15.4	102			102			75 - 125	20
Nickel	BRL	0.001	0.008	0.007	13.3	101			100			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	97.9			97.6			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	95.5			96.2			75 - 125	20
Zinc	BRL	0.002	0.027	0.028	3.60	99.4			99.3			75 - 125	20
QA/QC Batch 361444 (mg/L), QC Sample No: BV35913 (BV35223, BV35224, BV35225)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	97.6			88.1			70 - 130	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 361376 (mg/L), QC Sample No: BV36042 (BV35223, BV35224, BV35225)													
Thallium - Water	BRL	0.001	<0.001	<0.001	NC	98.1			97.7			75 - 125	20



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QA/QC Report

October 11, 2016

QA/QC Data

SDG I.D.: GBV35223

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 361687 (mg/L), QC Sample No: BV34375 (BV35223, BV35224, BV35225)													
Oil and Grease by EPA 1664A	BRL	1.4				101						85 - 115	20
QA/QC Batch 361463 (mg/L), QC Sample No: BV34979 (BV35223, BV35224, BV35225)													
Total Suspended Solids	BRL	5.0	1900	2000	5.10	92.0						85 - 115	20
QA/QC Batch 361291 (mg/L), QC Sample No: BV35000 (BV35223, BV35224, BV35225)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	100			100			85 - 115	20
Nitrite-N	BRL	0.01	<0.010	<0.01	NC	99.2			93.2			85 - 115	20
QA/QC Batch 361319 (pH), QC Sample No: BV35205 (BV35223, BV35224, BV35225)													
pH			7.48	7.50	0.30	98.5						85 - 115	20



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QA/QC Report

October 11, 2016

QA/QC Data

SDG I.D.: GBV35223

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 361343 (ug/L), QC Sample No: BV35224 (BV35223, BV35224, BV35225)											
Volatiles											
1,1,1-Trichloroethane	ND	1.0	81	82	1.2	74			70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	99	102	3.0	92			70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	88	90	2.2	81			70 - 130	30	
1,1-Dichloroethane	ND	1.0	77	79	2.6	73			70 - 130	30	
1,1-Dichloroethene	ND	1.0	80	80	0.0	76			70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	98	102	4.0	91			70 - 130	30	
1,2-Dichloroethane	ND	1.0	82	82	0.0	75			70 - 130	30	
1,2-Dichloropropane	ND	1.0	88	91	3.4	80			70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	101	103	2.0	91			70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	98	102	4.0	90			70 - 130	30	
Benzene	ND	0.70	90	93	3.3	82			70 - 130	30	
Bromodichloromethane	ND	0.50	91	93	2.2	82			70 - 130	30	
Bromoform	ND	1.0	114	113	0.9	92			70 - 130	30	
Bromomethane	ND	1.0	79	86	8.5	71			70 - 130	30	
Carbon tetrachloride	ND	1.0	91	95	4.3	80			70 - 130	30	
Chlorobenzene	ND	1.0	95	97	2.1	87			70 - 130	30	
Chloroethane	ND	1.0	87	89	2.3	83			70 - 130	30	
Chloroform	ND	1.0	84	71	16.8	65			70 - 130	30 m	
Chloromethane	ND	1.0	76	78	2.6	68			70 - 130	30 m	
cis-1,2-Dichloroethene	ND	1.0	76	78	2.6	72			70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	87	89	2.3	77			70 - 130	30	
Dibromochloromethane	ND	0.50	109	111	1.8	94			70 - 130	30	
Dichlorodifluoromethane	ND	1.0	75	75	0.0	70			70 - 130	30	
Ethylbenzene	ND	1.0	97	100	3.0	89			70 - 130	30	
m&p-Xylene	ND	1.0	97	99	2.0	87			70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	88	89	1.1	80			70 - 130	30	
Methylene chloride	ND	1.0	69	72	4.3	65			70 - 130	30 l,m	
o-Xylene	ND	1.0	97	101	4.0	87			70 - 130	30	
Tetrachloroethene	ND	1.0	101	102	1.0	91			70 - 130	30	
Toluene	ND	1.0	90	95	5.4	81			70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	77	82	6.3	74			70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	85	87	2.3	75			70 - 130	30	
Trichloroethene	ND	1.0	93	99	6.3	86			70 - 130	30	
Trichlorofluoromethane	ND	1.0	78	79	1.3	77			70 - 130	30	
Vinyl chloride	ND	1.0	76	79	3.9	71			70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	98	100	2.0	99			70 - 130	30	
% Bromofluorobenzene	89	%	95	93	2.1	94			70 - 130	30	
% Dibromofluoromethane	97	%	98	97	1.0	100			70 - 130	30	
% Toluene-d8	97	%	97	97	0.0	96			70 - 130	30	

Comment:

A blank MS was analyzed with this batch.

QA/QC Data

SDG I.D.: GBV35223

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

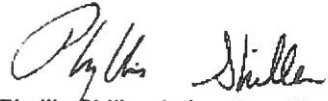
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

October 11, 2016

Tuesday, October 11, 2016

Criteria: NY: DEP EFF

State: NY

Sample Criteria Exceedences Report

GBV35223 - MORETRENCH

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



NY Temperature Narration

October 11, 2016

SDG I.D.: GBV35223

The samples in this delivery group were received at 3°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes No
 Coolant: IPK ICE

Temp 5 °C Pg 1 of 1

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726



Contact Options:
 Fax
 Phone
 Email

Project P.O.: South Beach DSC

This section **MUST** be completed with **Bottle Quantities.**

Customer: Moltenrich American
 Address: 51 Smart Ave. Yonkers, NY 10704

Project: South Beach DSC
 Report to: Invoice to:

Sampler's Signature	Client Sample Information - Identification	Date	Analysis Request
<i>[Signature]</i>	<u>B-49</u>	<u>10/3/16</u>	<u>SW</u>
<i>[Signature]</i>	<u>B-64</u>	<u>10/3/16</u>	<u>SW</u>
<i>[Signature]</i>	<u>B-1A</u>	<u>10/3/16</u>	<u>SW</u>

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
<u>35003</u>	<u>B-49</u>	<u>GW</u>	<u>10/3/16</u>	<u>8:30</u>	<u>SW</u>
<u>35004</u>	<u>B-64</u>	<u>GW</u>	<u>10/3/16</u>	<u>6:15</u>	<u>SW</u>
<u>35005</u> (35005)	<u>B-1A</u>	<u>GW</u>	<u>10/3/16</u>	<u>7:15</u>	<u>SW</u>
<u>10101A</u>					

Relinquished by: [Signature] Accepted by: [Signature] Date: 10-3-16 Time: 10:30
10:30
15:53

Comments, Special Requirements or Regulations:
South Beach DSC

Turnaround:
 1 Day*
 2 Days*
 3 Days*
 5 Days
 10 Days
 Other

* SURCHARGE APPLIES

NY Res. Criteria
 TAGM 4046 GW
 TAGM 4046 SOIL
 NY375 Unrestricted Use Soil
 NY375 Residential Soil
 Restricted/Residential Commercial
 Industrial

NJ Res. Criteria
 Non-Res. Criteria
 Impact to GW Soil Cleanup Criteria
 GW Criteria

Data Format
 Phoenix Std Report
 Excel
 PDF
 GIS/Key
 EQulS
 NJ Hazsite EDD
 NY EZ EDD (ASP)
 Other

Data Package
 NJ Reduced Deliv.*
 NY Enhanced (ASP B)*
 Other

State where samples were collected: NY

AmeriSci Boston
 Eight School Street
 Weymouth, MA 02189
 781-337-9334



Laboratory Report

Report Date 01/28/2005
 Workorder No. 0501-00144

Customer: Metcalf & Eddy Associates
 1140 Route 22 East
 Suite 101
 Bridgewater, NJ 08807

Attention: Mr. Nelson Abrams

Subject: SOUTH BEACH CORRIDOR STATEN IS

Sample: 001 MW-1 WELL IN SB-1 BOREHOLE
 Date: 01/18/2005 Time: 8:50:00AM
 Matrix: WATER

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Volatile Organics 8260					NAC	01/25/2005	
Dichlorodifluoromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Vinyl Chloride	EPA 8260B	ND	ug/L	2.0	NAC	01/25/2005	
Chloromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Bromomethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Chloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Trichlorofluoromethane	EPA 8260B	ND	ug/L	25	NAC	01/25/2005	
Acrolein	EPA 8260B	ND	ug/L	25	NAC	01/25/2005	
Acetone	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,1-Dichloroethylene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Iodomethane	EPA 8260B	ND	ug/L	25	NAC	01/25/2005	
Carbon Disulfide	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Methylene Chloride	EPA 8260B	ND	ug/L	25	NAC	01/25/2005	
Acrylonitrile	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Methyl-Tert-Butyl-Ether	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
trans-1,2-Dichloroethylene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,1-Dichloroethane	EPA 8260B	ND	ug/L	25	NAC	01/25/2005	
Vinyl Acetate	EPA 8260B	ND	ug/L	25	NAC	01/25/2005	
2-Butanone-(MEK)	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
2,2-Dichloropropane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
cis-1,2-Dichloroethylene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Chloroform	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Bromochloromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,1,1-Trichloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,1-Dichloropropene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Carbon Tetrachloride	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	

Certifications: MA: MA069 NY:10982 CT: PH0118 RI:A45 CA:2050 NJ: 59744
 ND = Not Detected PQL = Practical Quantitation Limit

Page: 1 of 12



Customer: Metcalf & Eddy Associates

Workorder No. 0501-00144

Sample: 001 MW-1 WELL IN SB-1 BOREHOLE
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Benzene	EPA 8260B	ND	ug/L	0.7	NAC	01/25/2005	
1,2-Dichloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Trichloroethylene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,2-Dichloropropane	EPA 8260B	ND	ug/L	25	NAC	01/25/2005	
4-Methyl-2-Pentanone (MIBK)	EPA 8260B	ND	ug/L	25	NAC	01/25/2005	
2-Chloroethyl vinyl ether	EPA 8260B	ND	ug/L	1.0	NAC	01/25/2005	
cis-1,3-Dichloropropene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Toluene	EPA 8260B	ND	ug/L	1.0	NAC	01/25/2005	
trans-1,3-Dichloropropene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Bromodichloromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,1,2-Trichloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,2-Dibromoethane	EPA 8260B	ND	ug/L	25	NAC	01/25/2005	
2-Hexanone	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,3-Dichloropropane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Tetrachloroethylene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Dibromochloromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Chlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Ethylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
O-XYLENE	EPA 8260B	ND	ug/L	10	NAC	01/25/2005	
M & P-XYLENE	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Styrene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Bromoform	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Isopropylbenzene	EPA 8260B	ND	ug/L	2.0	NAC	01/25/2005	
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,2,3-Trichloropropane	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
n-Propylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Bromobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
2-Chlorotoluene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,3,5-Trimethylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
4-Chlorotoluene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
tert-Butylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,2,4-Trimethylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
sec-Butylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	

Certifications:
ND = Not Detected

MA MA069 NY:10982 CT: PH0119 RI:A45
PQL = Practical Quantitation Limit

CA:2050 NJ: 59744

Page: 2 of 12



Customer: Metcalf & Eddy Associates

Workorder No. 0501-00144

Sample: 001 MW-1 WELL IN SB-1 BOREHOLE
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
4-Isopropyltoluene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,3-Dichlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,4-Dichlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
n-Butylbenzene	EPA 8260B	ND	ug/L	2.0	NAC	01/25/2005	
1,2-Dichlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,2-Dibromo-3-Chloropropan	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,2,4-Trichlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Hexachlorobutadiene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
Naphthalene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
1,2,3-Trichlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/25/2005	
DIBROMOFLUOROMETHAN		114	%		NAC	01/25/2005	
TOLUENE-D8 (SURROGATE)		97.9	%		NAC	01/25/2005	
4-BROMOFLUOROBENZEN		95.5	%		NAC	01/25/2005	
B/NA Extractables EPA 8270					SUB	01/26/2005	
N-Nitrosodimethylamine	EPA 8270C	ND	ug/L	5	SUB	01/26/2005	
bis(2-Chloroethyl)ether	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Phenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Chlorophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
1,3-Dichlorobenzene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
1,4-Dichlorobenzene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
1,2-Dichlorobenzene	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	
2,2'-oxybis(1-Chloropropane	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	
2-Methyl Phenol	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
Hexachloroethane	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
N-Nitroso-di-n-propylamine	EPA 8270C	ND	ug/L	20	SUB	01/26/2005	
3&4-Methyl Phenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Nitrobenzene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Isophorone	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	
2-Nitrophenol	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	
2,4-Dimethylphenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
bis (2-Chloroethoxy)	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,4-Dichlorophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
1,2,4-Trichlorobenzene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Naphthalene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	

Certifications:
ND = Not Detected

MA: MA069 NY:10982 CT: PH0119 RI:A45
PQL= Practical Quantitation Limit


HAZ-130

RI:A45

CA:2050

NJ: 59744

Page: 3 of 12



Customer: Metcalf & Eddy Associates

Workorder No. 0501-00144.

Sample: 001 MW-1 WELL IN SB-1 BOREHOLE
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
4-Chloroaniline	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Hexachlorobutadiene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
4-Chloro-3-methylphenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Methylnaphthalene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Hexachlorocyclopentadiene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
2,4,6-Trichlorophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,4,5-Trichlorophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Chloronaphthalene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Nitroaniline	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Acenaphthylene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Dimethyl Phthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,6-Dinitrotoluene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Acenaphthene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
3-Nitroaniline	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,4-Dinitrophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Dibenzofuran	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,4-Dinitrotoluene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
4-Nitrophenol	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	
Fluorene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
4-Chlorophenyl Phenyl Ether	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Diethyl Phthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
4-Nitroaniline	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Methyl-4,6-dinitrophenol	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	
N-Nitrosodiphenylamine	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
4-Bromophenyl Phenyl Ether	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Hexachlorobenzene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
Pentachlorophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Phenanthrene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Anthracene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Di-n-butylphthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Fluoranthene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Benzidine	EPA 8270C	ND	ug/L	50	SUB	01/26/2005	
Pyrene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Butyl Benzyl Phthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	

Certifications:
ND = Not Detected

MA: MA069 NY: 10982 CT: PH0119 RI: A45
PQL = Practical Quantitation Limit
HAZ-131

CA: 2050 NJ: 59744

Page: 4 of 12



Customer: Metcalf & Eddy Associates

Workorder No: 0501-00144

Sample: 001 MW-1 WELL IN SB-1 BOREHOLE
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
3,3'-Dichlorobenzidine	EPA 8270C	ND	ug/L	20	SUB	01/26/2005	
Benzo(a)anthracene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
Chrysene	EPA 8270C	ND	ug/L	1.0	SUB	01/26/2005	
bis(2-Ethylhexyl)phthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Di-n-octyl phthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Indeno (1,2,3-cd)Pyrene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
Benzo(b,k)fluoranthene	EPA 8270C	ND	ug/L	4.0	SUB	01/26/2005	
Benzo(a)pyrene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
Dibenzo(a,h)Anthracene	EPA 8270C	ND	ug/L	1.0	SUB	01/26/2005	
Benzo (g,h,i) perylene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
2-FLUOROPHENOL (SURR)		35.9	%		SUB	01/26/2005	
PHENOL-D5 (SURR)		21.4	%		SUB	01/26/2005	
NITROBENZENE-D5 (SURR)		69.8	%		SUB	01/26/2005	
2-FLUOROBIPHENYL (SUR)		65.8	%		SUB	01/26/2005	
2,4,6-TRIBROMOPHENOL (S)		55.8	%		SUB	01/26/2005	
TERPHENYL-D14 (SURR)		75.4	%		SUB	01/26/2005	
Priority Pollutant Metals						00/00/0000	
Arsenic	200.7, EPA 1987	ND	mg/L	0.0200	RPL	01/25/2005	
Antimony	200.7, EPA 1987	ND	mg/L	0.0100	RPL	01/25/2005	
Beryllium	200.7, EPA 1987	ND	mg/L	0.00250	RPL	01/25/2005	
Cadmium	200.7, EPA 1987	ND	mg/L	0.00110	RPL	01/25/2005	
Chromium	200.7, EPA 1987	ND	mg/L	0.00600	RPL	01/25/2005	
Copper	200.7, EPA 1987	0.0110	mg/L	0.00500	RPL	01/25/2005	
Lead	200.7, EPA 1987	0.0236	mg/L	0.0100	RPL	01/25/2005	
Mercury	245.2, EPA 1983	ND	mg/L	0.000200	JRH	01/21/2005	
Nickel	200.7, EPA 1987	ND	mg/L	0.0400	RPL	01/25/2005	
Silver	200.7, EPA 1987	ND	mg/L	0.00500	RPL	01/25/2005	
Selenium	200.7, EPA 1987	ND	mg/L	0.0200	RPL	01/25/2005	
Thallium	200.7, EPA 1987	ND	mg/L	0.0200	RPL	01/25/2005	
Zinc	200.7, EPA 1987	ND	mg/L	0.0500	RPL	01/25/2005	
PCBs EPA 608-Water					MB	01/21/2005	
PCB-1016	EPA 608	ND	ug/L	1.23	MB	01/21/2005	
PCB-1221	EPA 608	ND	ug/L	1.23	MB	01/21/2005	
PCB-1232	EPA 608	ND	ug/L	1.23	MB	01/21/2005	

Certifications: MA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744
 ND = Not Detected PQL= Practical Quantitation Limit
 HAZ-132 Page: 5 of 12



Customer: Metcalf & Eddy Associates

Workorder No. 0501-00144

Sample: 001 MW-1 WELL IN SB-1 BOREHOLE
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
PCB-1242	EPA 608	ND	ug/L	1.23	MB	01/21/2005	
PCB-1248	EPA 608	ND	ug/L	1.23	MB	01/21/2005	
PCB-1254	EPA 608	ND	ug/L	1.23	MB	01/21/2005	
PCB-1260	EPA 608	ND	ug/L	1.23	MB	01/21/2005	
PCB-1262	EPA 608	ND	ug/L	1.23	MB	01/21/2005	
TCMX (SURROGATE)		117	%		MB	01/21/2005	
DGB (SURROGATE)		132	%		MB	01/21/2005	
Hexavalent Chromium	3500-CR-D SM18TH	ND	mg/L	0.01	PJS	01/19/2005	
Flash Point - Liquid/Solid	1010, EPA 1983	>200	F	200	SUB	01/20/2005	
Corrosivity	203, EPA 1983	7.07	S.U.	0	PJS	01/19/2005	
Total Suspended Solids	2540D SM18TH, 1992	2890	mg/L	3	PJS	01/19/2005	
PCB WATER EXTRACTION		0.810			TLL	01/20/2005	
Oil & Grease	5520B SM 18TH, 1992	ND	mg/L	1	PJS	01/20/2005	

Sample: 002 MW-2 WELL IN SB-2 BOREHOLE
Date: 01/18/2005 Time: 10:00:00AM
Matrix: WATER

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Volatile Organics 8260					NAC	01/26/2005	
Dichlorodifluoromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Vinyl Chloride	EPA 8260B	ND	ug/L	2.0	NAC	01/26/2005	
Chloromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Bromomethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Chloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Trichlorofluoromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Acrolein	EPA 8260B	ND	ug/L	25	NAC	01/26/2005	
Acetone	EPA 8260B	ND	ug/L	25	NAC	01/26/2005	
1,1-Dichloroethylene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Iodomethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Carbon Disulfide	EPA 8260B	ND	ug/L	25	NAC	01/26/2005	
Methylene Chloride	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Acrylonitrile	EPA 8260B	ND	ug/L	25	NAC	01/26/2005	
Methyl-Tert-Butyl-Ether	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	

Certifications: MA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744
 ND = Not Detected PQL= Practical Quantitation Limit

Page: 6 of 12



Customer: Metcalf & Eddy Associates

Workorder No. 0501-00144

Sample: 002 MW-2 WELL IN SB-2 BOREHOLE
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
trans-1,2-Dichloroethylene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,1-Dichloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Vinyl Acetate	EPA 8260B	ND	ug/L	25	NAC	01/26/2005	
2-Butanone-(MEK)	EPA 8260B	ND	ug/L	25	NAC	01/26/2005	
2,2-Dichloropropane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
cis-1,2-Dichloroethylene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Chloroform	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Bromochloromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,1,1-Trichloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,1-Dichloropropene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Carbon Tetrachloride	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Benzene	EPA 8260B	ND	ug/L	0.7	NAC	01/26/2005	
1,2-Dichloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Trichloroethylene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,2-Dichloropropane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
4-Methyl-2-Pentanone (MIBK)	EPA 8260B	ND	ug/L	25	NAC	01/26/2005	
2-Chloroethyl vinyl ether	EPA 8260B	ND	ug/L	25	NAC	01/26/2005	
cis-1,3-Dichloropropene	EPA 8260B	ND	ug/L	1.0	NAC	01/26/2005	
Toluene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
trans-1,3-Dichloropropene	EPA 8260B	ND	ug/L	1.0	NAC	01/26/2005	
Bromodichloromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,1,2-Trichloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,2-Dibromoethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
2-Hexanone	EPA 8260B	ND	ug/L	25	NAC	01/26/2005	
1,3-Dichloropropane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Tetrachloroethylene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Dibromochloromethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Chlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Ethylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
O-XYLENE	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
M & P-XYLENE	EPA 8260B	ND	ug/L	10	NAC	01/26/2005	
Styrene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Bromoform	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	

Certifications:
ND = Not Detected

MA: MA069 NY:10982 CT: PH0119 RI:A45
PQL= Practical Quantitation Limit

CA:2050 NJ: 59744

Page: 7 of 12

HAZ-134



Customer: Metcalf & Eddy Associates

Workorder No. 0501-00144

Sample: 002 MW-2 WELL IN SB-2 BOREHOLE
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Isopropylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	ug/L	2.0	NAC	01/26/2005	
1,2,3-Trichloropropane	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
n-Propylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Bromobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
2-Chlorotoluene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,3,5-Trimethylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
4-Chlorotoluene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
tert-Butylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,2,4-Trimethylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
sec-Butylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
4-Isopropyltoluene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,3-Dichlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,4-Dichlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
n-Butylbenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,2-Dichlorobenzene	EPA 8260B	ND	ug/L	2.0	NAC	01/26/2005	
1,2-Dibromo-3-Chloropropan	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,2,4-Trichlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Hexachlorobutadiene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
Naphthalene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
1,2,3-Trichlorobenzene	EPA 8260B	ND	ug/L	5.0	NAC	01/26/2005	
DIBROMOFLUOROMETHAN		104	%		NAC	01/26/2005	
TOLUENE-D8 (SURROGATE)		91.6	%		NAC	01/26/2005	
4-BROMOFLUOROBENZEN		91.3	%		NAC	01/26/2005	
B/NA Extractables EPA 8270					SUB	01/26/2005	
N-Nitrosodimethylamine	EPA 8270C	ND	ug/L	5	SUB	01/26/2005	
bis(2-Chloroethyl)ether	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Phenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Chlorophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
1,3-Dichlorobenzene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
1,4-Dichlorobenzene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
1,2-Dichlorobenzene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,2'-oxybis(1-Chloropropane	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	
2-Methyl Phenol	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	

Certifications:
ND = Not Detected

MA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744
PQL= Practical Quantitation Limit

Page: 8 of 12

HAZ-135



Customer: Metcalf & Eddy Associates

Workorder No. 0501-00144

Sample: 002 MW-2 WELL IN SB-2 BOREHOLE
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Hexachloroethane	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
N-Nitroso-di-n-propylamine	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
3,4-Methyl Phenol	EPA 8270C	ND	ug/L	20	SUB	01/26/2005	
Nitrobenzene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Isophorone	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Nitrophenol	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	
2,4-Dimethylphenol	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	
bis (2-Chloroethoxy)	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,4-Dichlorophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
1,2,4-Trichlorobenzene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Naphthalene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
4-Chloroaniline	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Hexachlorobutadiene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
4-Chloro-3-methylphenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Methylnaphthalene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Hexachlorocyclopentadiene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
2,4,6-Trichlorophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,4,5-Trichlorophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Chloronaphthalene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Nitroaniline	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Acenaphthylene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Dimethyl Phthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,6-Dinitrotoluene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Acenaphthene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
3-Nitroaniline	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,4-Dinitrophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Dibenzofuran	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2,4-Dinitrotoluene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
4-Nitrophenol	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	
Fluorene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
4-Chlorophenyl Phenyl Ether	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Diethyl Phthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
4-Nitroaniline	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
2-Methyl-4,6-dinitrophenol	EPA 8270C	ND	ug/L	10	SUB	01/26/2005	

Certifications:
ND = Not DetectedMA: MA069 NY:10982 CT: PH0119
PQL = Practical Quantitation Limit

RI:A45

CA:2050

NJ: 59744

Page: 9 of 12



Customer: Metcalf & Eddy Associates

Workorder No. 0501-00144

Sample: 002 MW-2 WELL IN SB-2 BOREHOLE
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
N-Nitrosodiphenylamine	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
4-Bromophenyl Phenyl Ether	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Hexachlorobenzene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
Pentachlorophenol	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Phenanthrene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Anthracene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Di-n-butylphthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Fluoranthene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Benzidine	EPA 8270C	ND	ug/L	50	SUB	01/26/2005	
Pyrene	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Butyl Benzyl Phthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
3,3'-Dichlorobenzidine	EPA 8270C	ND	ug/L	20	SUB	01/26/2005	
Benzo(a)anthracene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
Chrysene	EPA 8270C	ND	ug/L	1.0	SUB	01/26/2005	
bis(2-Ethylhexyl)phthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Di-n-octyl phthalate	EPA 8270C	ND	ug/L	5.0	SUB	01/26/2005	
Indeno (1,2,3-cd)Pyrene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
Benzo(b,k)fluoranthene	EPA 8270C	ND	ug/L	4.0	SUB	01/26/2005	
Benzo(a)pyrene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
Dibenzo(a,h)Anthracene	EPA 8270C	ND	ug/L	1.0	SUB	01/26/2005	
Benzo (g,h,i) perylene	EPA 8270C	ND	ug/L	2.0	SUB	01/26/2005	
2-FLUOROPHENOL (SURR)		2.07	%		SUB	01/26/2005	
PHENOL-D5 (SURR)		1.23	%		SUB	01/26/2005	
NITROBENZENE-D5 (SURR)		59.5	%		SUB	01/26/2005	
2-FLUOROBIPHENYL (SUR)		55.9	%		SUB	01/26/2005	
2,4,6-TRIBROMOPHENOL (S)		4.56	%		SUB	01/26/2005	
TERPHENYL-D14 (SURR)		58.7	%		SUB	01/26/2005	
Priority Pollutant Metals						00/00/0000	
Arsenic	200.7, EPA 1987	ND	mg/L	0.0200	RPL	01/25/2005	
Antimony	200.7, EPA 1987	ND	mg/L	0.0100	RPL	01/25/2005	
Beryllium	200.7, EPA 1987	ND	mg/L	0.00250	RPL	01/25/2005	
Cadmium	200.7, EPA 1987	0.0014	mg/L	0.00110	RPL	01/25/2005	
Chromium	200.7, EPA 1987	0.0836	mg/L	0.00600	RPL	01/25/2005	
Copper	200.7, EPA 1987	0.0894	mg/L	0.00500	RPL	01/25/2005	

Certifications:
ND = Not DetectedMA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744
PQL= Practical Quantitation Limit

Page: 10 of 12



Customer: Metcalf & Eddy Associates

Workorder No. 0501-00144

Sample: 002 MW-2 WELL IN SB-2 BOREHOLE
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Lead	200.7, EPA 1987	0.0910	mg/L	0.0100	RPL	01/25/2005	
Mercury	245.2, EPA 1983	0.000747	mg/L	0.000200	JRH	01/21/2005	
Nickel	200.7, EPA 1987	0.272	mg/L	0.0400	RPL	01/25/2005	
Silver	200.7, EPA 1987	ND	mg/L	0.00500	RPL	01/25/2005	
Selenium	200.7, EPA 1987	0.0278	mg/L	0.0200	RPL	01/25/2005	
Thallium	200.7, EPA 1987	ND	mg/L	0.0200	RPL	01/25/2005	
Zinc	200.7, EPA 1987	0.147	mg/L	0.0500	RPL	01/25/2005	
PCBs EPA 608-Water					MB	01/21/2005	
PCB-1016	EPA 608	ND	ug/L	1.14	MB	01/21/2005	
PCB-1221	EPA 608	ND	ug/L	1.14	MB	01/21/2005	
PCB-1232	EPA 608	ND	ug/L	1.14	MB	01/21/2005	
PCB-1242	EPA 608	ND	ug/L	1.14	MB	01/21/2005	
PCB-1248	EPA 608	ND	ug/L	1.14	MB	01/21/2005	
PCB-1254	EPA 608	ND	ug/L	1.14	MB	01/21/2005	
PCB-1260	EPA 608	ND	ug/L	1.14	MB	01/21/2005	
PCB-1262	EPA 608	ND	ug/L	1.14	MB	01/21/2005	
TCMX (SURROGATE)		113	%		MB	01/21/2005	
DCB (SURROGATE)		139	%		MB	01/21/2005	
Hexavalent Chromium	3500-CR-D SM18TH	0.011	mg/L	0.01	PJS	01/19/2005	
Flash Point - Liquid/Solid	1010, EPA 1983	>200	F	200	SUB	01/20/2005	
Corrosivity	203, EPA 1983	6.58	S.U.	0	PJS	01/19/2005	
Total Suspended Solids	2540D SM18TH, 1992	193	mg/L	3	PJS	01/19/2005	
PCB WATER EXTRACTION		0.880			TLL	01/20/2005	
Oil & Grease	5520B SM 18TH, 1992	1.00	mg/L	1	PJS	01/20/2005	

This sample exhibited low acid surrogate recoveries in the semivolatile portion of the analysis. There was not enough sample available for re-extraction.

Certifications: MA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744
 ND = Not Detected PQL= Practical Quantitation Limit

Page: 11 of 12



Customer: Metcalf & Eddy Associates

Workorder No. 0501-00144

To the best of my knowledge, this report is true and accurate.

Authorized By:

A handwritten signature in black ink, appearing to read "V. Nicholls". The signature is written over a horizontal line.

Vinora Nicholls, Technical Director

0501-0144
30c



CHAIN OF CUSTODY FORM

Job/Project Name: SOUTH BEACH CORRIDOR		Job/Project Location: STATION SQUARE NY		Job/Project Number: 036 200 658-31.1		Date: 1/18/05											
Samplers: (Signatures)		Recorder: (Signature)															
Lab (Samples Sent To): AMMELSCI - BOSTON		MATRIX		ANALYSIS REQUESTED		COMMENTS											
SAMPLING	Date	SAMPLE NUMBER	SAMPLE LOCATION	Water	Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	VOC	SVOC	PP METALS	PCB	OIL & GREASE	HEX CHLOR	ICUMULU/COLOUR	TSS	Total #	
	Time																
	1/18/05	MW-2	WELL IN SQ-2 BOREHOLE	X		9	Y	X	X	X	X	X	X	X	X	2/7	
	1/18/05	MW-2	WELL IN SQ-2 BOREHOLE	X		6	Y	X	X	X	X	X	X	X	X	2/7	
Retinquished By: (Signature)	Date: 1/18/05	Time: 11:30	Received By: (Signature)	Date:	Time:	Retinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:	Time:	Retinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:	Time:
Retinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:	Time:	Retinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:	Time:	Retinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Date:	Time:
Retinquished By: (Signature)	Date:	Time:	Received for Lab by: (Signature)	Date: 1/19/05	Time: 10:30	Comments: QUESTIONS? NATLSON ABRAMS 908 947-0274											
Method of Shipment: SENT BY FED EX TO LAB IN BOSTON																	

Distribution: Original to Lab. Copy 1 to Field Files, Copy 2 to Project Manager
Form 274 (Rev. 5/89)



TABLE 7
ANALYTICAL RESULTS – GROUNDWATER
VOLATILE ORGANIC COMPOUNDS

TABLE 7
SUMMARY OF ANALYTICAL RESULTS-GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs)
SOUTH BEACH RECONSTRUCTION
STATEN ISLAND, NEW YORK
PROJECT No. HWR1132B

Sample ID	MW-1	MW-2	B-49	NYSDEC
Lab ID	001	002	001	Groundwater
Sample Date	1/18/2005	1/18/2005	2/14/2005	Standards / Criteria
Parameter (ppb)				
Benzene	ND	ND	12	0.7
Ethylbenzene	ND	ND	23	5

ND-Not detected above laboratory detection limits
 NA - Not Applicable
BOLD - Compound detected above NYSDEC TOGS 1.1.1 Groundwater Standards / Criteria



TABLE 8
ANALYTICAL RESULTS – GROUNDWATER
SEMIVOLATILE ORGANIC COMPOUNDS

TABLE 8
SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)
SOUTH BEACH RECONSTRUCTION
STATEN ISLAND, NEW YORK
PROJECT No. HWR1132B

Sample ID Lab ID Sample Date	MW-1 001 1/18/2005	MW-2 002 1/18/2005	B-49 001 2/14/2005	NYSDEC Groundwater Standards / Criteria
Parameter (ppb)				
Naphthalene	ND	ND	12.8	10
2-Methylnaphthalene	ND	ND	23.5	50

ND-Not detected above laboratory detection limits

NA - Not Applicable



TABLE 9
ANALYTICAL RESULTS – GROUNDWATER
PRIORITY POLLUTANT METALS

TABLE 9
SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER
PRIORITY POLLUTANT METALS SOUTH BEACH RECONSTRUCTION
STATEN ISLAND, NEW YORK
PROJECT No. HWR1132B

Sample ID Lab ID Sample Date	MW-1 001 1/18/2005	MW-2 002 1/18/2005	B-49 001 2/14/2005	NYSDEC Groundwater Standards/Guidance Values
Parameter (ppm)				
Arsenic	ND	ND	0.0286	25
Antimony	ND	ND	0.0103	3
Beryllium	ND	ND	ND	3
Cadmium	ND	0.0014	ND	5
Chromium	ND	0.0836	0.0744	50
Copper	0.0110	0.0894	0.0912	200
Lead	0.0236	0.0910	0.0740	25
Mercury	ND	0.000747	ND	0.7
Nickel	ND	0.272	0.215	100
Selenium	ND	0.0278	ND	10
Silver	ND	ND	ND	50
Thallium	ND	ND	ND	0.5
Zinc	ND	0.147	0.116	2000

ND-Not detected above laboratory detection limits



TABLE 10
ANALYTICAL RESULTS – GROUNDWATER
NYCDEP LIMITATIONS FOR EFFLUENT TO SANITARY OR
COMBINED SEWERS (DAILY LIMIT)

TABLE 10
SUMMARY OF ANALYTICAL RESULTS-GROUNDWATER:
WATER QUALITY PARAMETERS
SOUTH BEACH RECONSTRUCTION
STATEN ISLAND, NEW YORK
PROJECT No. HWR1132B

Sample ID Lab ID Sample Date	MW-1 001 4/18/2005	MW-2 002 1/18/2005	B-49 001 2/14/2005	NYCDEP Limitations for Effluent to Sanitary or Combined Sewers
	Parameter (ppm, except pH & Ignitability)			
Oil & Grease	ND	ND	4.1	50
Benzene	ND	ND	0.012	0.134
Ethylbenzene	ND	ND	0.023	0.380
Methyl t-butyl ether	ND	ND	ND	0.010
Toluene	ND	ND	ND	0.074
Xylenes (Total)	ND	ND	ND	0.074
Naphthalene	ND	ND	0.0126	0.047
Tetrachloroethylene	ND	ND	ND	0.020
pH	7.07	6.58	6.98	5 - 11
Total Suspended Solids	2890	193	1144	NS
Ignitability	>200 °F	>200 °F	>200 °F	>140 °F
PCBs (Total)	ND	ND	ND	0.001
Cadmium	ND	0.0014	ND	2
Hexavalent Chromium	ND	0.011	ND	5
Copper	0.0110	0.0894	0.0912	5
Lead	0.0236	0.0910	0.0740	2
Mercury	ND	0.000747	ND	0.05
Nickel	ND	0.272	0.215	3
Zinc	ND	0.147	0.116	5

ND-Not detected above laboratory detection limits
 NS - No Standard