Appendix D

Well Permits, Records & Form A

DWR-133M
2/00

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

Permit No 2800052109

VALID ONLY AFTER APPROVAL BY THE D E P

Mail To
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

COORD # 28.03.393

Owner WALTER LAPP, SR
Address 263 EDWARDS PLACE
NORTH BRUNSWICK, NJ 08902

Driller TRISTATE PROBING/DRILLING SERVICES, INC.
Address 362 DUNKS FERRY ROAD
BENSALEM, PA 19020

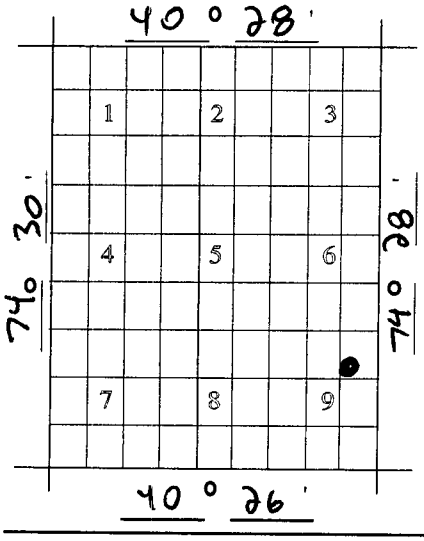
Name of Facility NORTH BRUNSWICK GULF
Address 1696 GEORGES ROAD (RT. 130)
NORTH BRUNSWICK, NJ

Diameter of Well(s)	6 Inches	Proposed Depth of Well(s)	16 Feet
# of Wells Applied for (max 10)	1	Will pumping equipment be utilized?	NOT AT THIS TIME YES ☐ NO ☒
Type of Well (see reverse)	RECOVERY	If Yes give pump capacity	N/A cumulative GPM

LOCATION OF WELL(S)

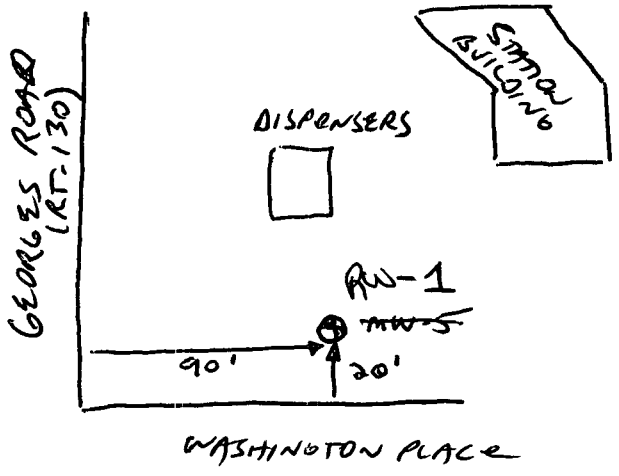
Lot #	Block #	Municipality	County
1	282	NORTH BRUNSWICK	MIDDLESEX

State Atlas Map No. 28



Vac. Truck

Draw sketch of well(s) nearest roads, buildings, etc with marked distances in feet Each well MUST be labeled with a name and/or number on the sketch



N

FOR MONITORING WELLS RECOVERY WELLS OR PIEZOMETERS THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED

- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site
- ☐ RCRA Site
- ☒ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)

CASE ID Number 01-08-30-1546-07

This Space for Approval Stamp

WELL PERMIT APPROVED
JUN - 2 2003
SUPERVISOR ALLOCATION

FOR DEP USE
- ☐ Issuance of this permit is subject to the conditions attached (see next page)
- ☒ For monitoring purposes only
- ☒ The well(s) may not be completed with more than 25 feet of total screen or uncased borehole
- ☐

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT
In compliance with N.J.S.A 58 4A 14 application is made for a permit to drill a well as described above

Date 5/14/03
Signature of Driller Steven Wegand
Registration No MD023169 MISN
Signature of Property Owner Theodore H. Schwartz FOR WALTER LAPP, SR

COPIES Water Allocation White Health Dept Yellow Owner Blue Driller White

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
2800052189

MONITORING WELL RECORD

Atlas Sheet Coordinates
2803393

OWNER IDENTIFICATION WALTER LAPP, SR.

Address 263 EDWARDS PLACE

City North Brunswick Twp State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** RW-1

County Middlesex Municipality North Brunswick Twp Lot No. 1 Block No. 282

Address 1696 GEORGES RD. (RT. 130)

WELL USE Recovery

DATE WELL STARTED

DATE WELL COMPLETED

WELL CONSTRUCTION

Total Depth Drilled 15 ft.

Finished Well Depth 15 ft.

Borehole Diameter:

Top 10 in.

Bottom 10 in.

Well was finished: ☐ above grade

Vault - ☒ flush mounted

If finished above grade, casing height (stick up) above land surface ft.

Steel protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 6.78 ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at 1 gpm

Method of development Submersible Pump

Pump Capacity gpm

Pump Type

Drilling Fluid Type of Rig Hand Dug

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	10	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	10	15	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	8	15		Morie #	
Grout	0	8		Neat Cement	346 lbs
				Bentonite	+8 lbs

Grouting Method Tremie

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0'-1' Gravel

1'-15' Brown silty sand

Brian Kokot / FPI, did not drill this well. We are submitting the well record on Tri States behalf

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TRISTATE PROBING/DRILLING SERVICE INC

Well Driller (Print) Brian Kokot

Driller's Signature

Registration No. JD 00 17863 Date 2/14/2017

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 586384 EASTING: 500178

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middelsex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Mr. Walter Lapp
2. Well Location (Street Address) 1696 Georges Road North Brunswick, NJ 08902
3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	2800052189
2. Site Well Number as shown on application or plans):	RW 1
3. Well Completion Date:	06/30/2003
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.33
5. Total Depth of Well to the nearest ½ foot:	15'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	5'
7. Screen Length (or length of open hole) in feet:	10'
8. Screen or Slot Size:	0.01
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	6 inch
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	6.78'
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	pumping
15. Length of Time well is developed/pumped or bailed (hours and minutes):	29 minutes on 12/05/2007

DWR 133M
11/01

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

2800054457 - Thru - 2800054462

MONITORING WELL PERMIT

Mail To
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON NJ 08625 0426

VALID ONLY AFTER APPROVAL BY THE D E P

Permit No _____

COORD # 28 . 03 . 3 92

Owner Mr Walter Lapp
Address 1698 Georges Road (Rt 130)
North Brunswick, NJ 08902

Name of Facility North Brunswick Gulf
Address -SAME-

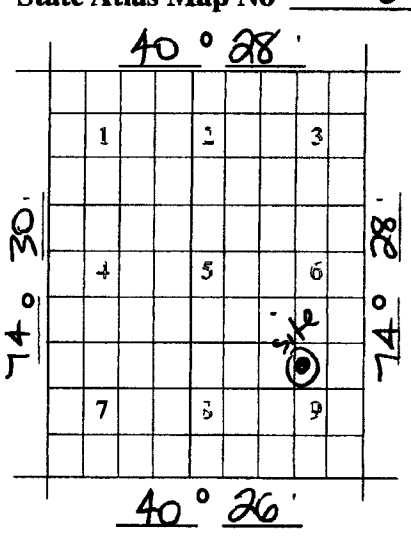
Driller EPI, Inc.
Address 18 Hornerstown Rd.
Cream Ridge, NJ 08514

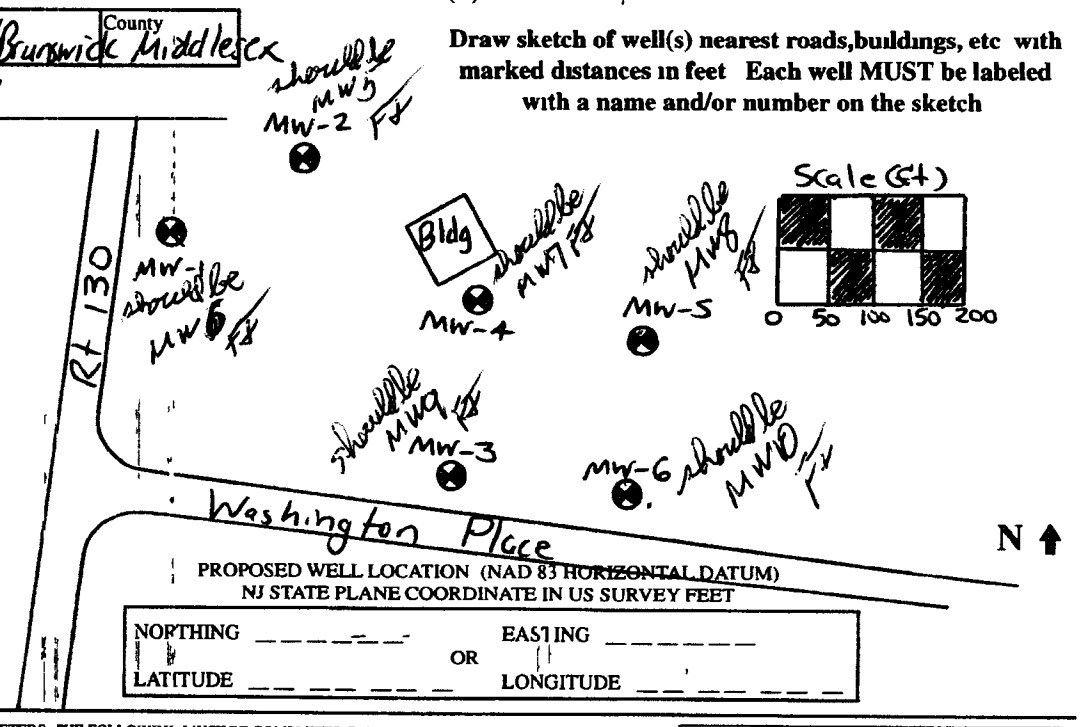
Diameter of Well(s)	2 Inches	Proposed Depth of Well(s)	20 Feet
# of Wells Applied for (max 10)	6	Will pumping equipment be utilized?	YES ☐ NO ☑
Type of Well (see reverse)	Monitor	If Yes give pump capacity	N/A cumulative GPM

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
1	282	North Brunswick	Middlesex

State Atlas Map No 28





Draw sketch of well(s) nearest roads,buildings, etc with marked distances in feet Each well MUST be labeled with a name and/or number on the sketch

PROPOSED WELL LOCATION (NAD 83 ~~HORIZONTAL DATUM~~)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING _____ EASTING _____
OR
LATITUDE _____ LONGITUDE _____

FOR MONITORING WELLS RECOVERY WELLS OR PIEZOMETERS THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operation al Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)_____
- ☑ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE ID Number 01-08-30-1546-07

This Space for DEP Use
WELL PERMIT APPROVED
NJ DEP
DEC 14 2004
BUREAU OF WATER ALLOCATION

FOR DEP USE ☐ Issuance of this permit is subject to the conditions attached (see next page) ☒ For monitoring purposes only ☐ _____

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT
In compliance with N.J S A 58 4A 14 application is made for a permit to drill a well as described above

Date 12/8/04
Signature of Driller _____ Registration No J0017863
Signature of Property Owner Rich Britton (BK) 7323905858

COPIES Water Allocation White Health Dept Yellow Owner Blue Driller White

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number
2800054462
Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)

City North Brunswick Twp State New Jersey Zip Code 08902

E DMQ

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-5

County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282

Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF

WELL USE Monitoring

DATE WELL STARTED 12-23-04

DATE WELL COMPLETED 12-23-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft

Finished Well Depth 20 ft

Borehole Diameter

Top 8 in

Bottom 8 in

Well was finished ☐ above grade
☑ flush mounted

If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed?
☑ Yes ☐ No

Static Water Level after drilling 12 ft

Water Level was Measured Using Tape

Well was developed for 1/2 hours

at 2 gpm

Method of development Whale pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used .010)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	#1 Morie	LUK10
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs 10 lbs

Grouting Method Gravity Feed

Drilling Method H S A

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-4 Med Sand

4-16 F.M. Sand

16-20 Clay

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATI(

Well Driller (Print) Robert Flemming

Driller's Signature Robert Flemming

Registration No MW0024435 Date 1/11/05

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING:_____ **EASTING:**_____

OR

LATITUDE __° __' ____" **LONGITUDE** __° __' ____"

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number
2800054461
Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)

City North Brunswick Twp State New Jersey Zip Code 08902

E
DMQ

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-6

County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282

Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF

WELL USE Monitoring

DATE WELL STARTED 12-23-04

DATE WELL COMPLETED 12-23-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft

Finished Well Depth 20 ft

Borehole Diameter

Top 8 in

Bottom 8 in

Well was finished ☐ above grade

☑ flush mounted

If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed?

☑ Yes ☐ No

Static Water Level after drilling 12 ft

Water Level was Measured Using Tape

Well was developed for 1/2 hours

at 2 gpm

Method of development whale pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used .010)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	#1 Morie	1000
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs 10 lbs

Grouting Method Gravity Feed

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-4 Med Sand

4-16 F.-M. Sand

16-20 Clay

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATI(

Well Driller (Print) Robert Flemming

Driller's Signature Robert Flemming

Registration No NW0024435 Date 1/11/05

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING:_____ **EASTING:**_____

OR

LATITUDE __ ° __ ' __ __ " **LONGITUDE** __ ° __ ' __ __ "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number
2800054460
Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)

City North Brunswick Twp State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-7

County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282

Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF

E
DMQ

WELL USE Monitoring

DATE WELL STARTED 12-22-04

DATE WELL COMPLETED 12-22-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft

Finished Well Depth 20 ft

Borehole Diameter

Top 8 in

Bottom 8 in

Well was finished ☐ above grade
☑ flush mounted

If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed?
☑ Yes ☐ No

Static Water Level after drilling 12 ft

Water Level was Measured Using Tape

Well was developed for 1/2 hours

at 2 gpm

Method of development Whale pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used .010)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	#1 Morie	1000
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs 10 lbs

Grouting Method Gravity Feed

Drilling Method H.S.A

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-4 Med Sand

4-16 F m Sand

16-20 Clay

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATI

Well Driller (Print) Robert Flemming

Driller's Signature Robert Flemming

Registration No MW0024435 Date 1/11/05

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING:_____ **EASTING:**_____

OR

LATITUDE __ ° __ ' __ __ " **LONGITUDE** __ ° __ ' __ __ "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

E DMQ

Well Permit Number
2800054457
Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)

City North Brunswick Twp State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-8

County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282

Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF

WELL USE Monitoring

DATE WELL STARTED 12-22-04

DATE WELL COMPLETED 12-22-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft

Finished Well Depth 20 ft

Borehole Diameter

Top 8 in

Bottom 8 in

Well was finished ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling 12 ft

Water Level was Measured Using Tape

Well was developed for 1/2 hours

at 2 gpm

Method of development Whale pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used .010)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	#1 Morie	1000
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs ~~80~~ 70 lbs

Grouting Method Gravity feed

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-4 Med SAND

4-16 F M Sand

16-20 CLAY

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATI(

Well Driller (Print) Robert Flemming

Driller's Signature Robert Flemming

Registration No mw0024435 Date 1/11/05

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING:_____ EASTING:_____

OR

LATITUDE __° __ ' __ __ " LONGITUDE __° __ ' __ __ "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number
2800054459
Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)

City North Brunswick Twp State New Jersey Zip Code 08902

E
DMQ

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-9

County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282

Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF

WELL USE Monitoring

DATE WELL STARTED 12-22-04

DATE WELL COMPLETED 12-22-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft

Finished Well Depth 20 ft

Borehole Diameter

Top 8 in

Bottom 8 in

Well was finished ☐ above grade
☑ flush mounted

If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed?
☑ Yes ☐ No

Static Water Level after drilling 12 ft

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used .010)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	#1 Morie	1000
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs 10 lbs

Water Level was Measured Using Tape

Well was developed for 1/2 hours

at 2 gpm

Method of development Whale pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Grouting Method Gravity Feed

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-4 Med Sand

4-16 F-m Sand

16-20 Clay

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATI(

Well Driller (Print) Robert Flemming

Driller's Signature Robert Flemming

Registration No mw0024435 Date 1/11/05

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING:_____ **EASTING:**_____

OR

LATITUDE __° __' ___" **LONGITUDE** __° __' ___"

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number
2800054458
Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)

City North Brunswick Twp State New Jersey Zip Code 08902

E DMQ

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-10

County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282

Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF

WELL USE Monitoring

DATE WELL STARTED 12-22-04 ~~MW-12~~

DATE WELL COMPLETED 12-22-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft

Finished Well Depth 20 ft

Borehole Diameter

Top 8 in

Bottom 8 in

Well was finished ☐ above grade
☑ flush mounted

If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed?
☑ Yes ☐ No

Static Water Level after drilling 12 ft

Water Level was Measured Using TAPE

Well was developed for 1/2 hours

at 2 gpm

Method of development Whale Pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (b) C B A

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used .010)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	#1 Morie	1000
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs 10 lbs

Grouting Method Gravity Feed

Drilling Method H.S.A

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-4 Med Sand

4-16 F-M. Sand

16-20 Clay

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING:_____ EASTING:_____

OR

LATITUDE __° __ ' __ __" LONGITUDE __° __ ' __ __"

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATI(

Well Driller (Print) Robert Flemming

Driller's Signature Robert Flemming

Registration No MW0024435 Date 1/11/05

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

Well Search for CEA Biennial Certification By Atlas Grids

Last Refreshed: 03 pm

Program Interest ID : 010180

Grid Numbers Entered : 2803392

Well Approved During the Period 1/1/2002 to 3/5/2007

Atlas Grid Number : 2803392

Well Permit Number : 2800054457 mw8

Well General Information

Well Permit Number	Primary Use	Permit Approval Date	Drilling End Date	STATUS
2800054457	Monitoring	12/13/04	12/22/04	Authorized

Well Owner Information

First Name	Last Name
WALTER	LAPP

Well Location Information	
County	Middlesex
Municipality (Loc Pt Details)	North Brunswick Twp
Address Line 1	1698 GEORGES ROAD (RT.130)
Address Line 2	NORTH BRUNSWICK GULF
NJ GRID	2803392
Block	282
Lot	1
X Coordinate	742819
Y Coordinate	402632
Location System (Loc Pt Details)	Lat/Long (NAD27) - DMS

Well Information	
Subject Item Desc	MW-8
Proposed Depth	20 ft
Finished Depth	20 ft
Finished Capacity	0 gal/min

Well Permit Number : 2800054458 MW10

Well General Information				
Well Permit Number	Primary Use	Permit Approval Date	Drilling End Date	STATUS
2800054458	Monitoring	12/13/04	12/22/04	Authorized

Well Owner Information	
First Name	Last Name
WALTER	LAPP

Well Location Information	
County	Middlesex
Municipality (Loc Pt Details)	North Brunswick Twp
Address Line 1	1698 GEORGES ROAD (RT.130)
Address Line 2	NORTH BRUNSWICK GULF
NJ GRID	2803392
Block	282
Lot	1
X Coordinate	742819
Y Coordinate	402632
Location System (Loc Pt Details)	Lat/Long (NAD27) - DMS

Well Information	
Subject Item Desc	MW-10
Proposed Depth	20 ft
Finished Depth	20 ft
Finished Capacity	0 gal/min

Well Permit Number : 2800054459 MW9

Well General Information				
Well Permit Number	Primary Use	Permit Approval Date	Drilling End Date	STATUS
2800054459	Monitoring	12/13/04	12/22/04	Authorized

Well Owner Information	
First Name	Last Name
WALTER	LAPP

Well Location Information	
County	Middlesex
Municipality (Loc Pt Details)	North Brunswick Twp
Address Line 1	1698 GEORGES ROAD (RT.130)
Address Line 2	NORTH BRUNSWICK GULF
NJ GRID	2803392
Block	282
Lot	1
X Coordinate	742819
Y Coordinate	402632
Location System (Loc Pt Details)	Lat/Long (NAD27) - DMS

Well Information	
Subject Item Desc	MW-9
Proposed Depth	20 ft
Finished Depth	20 ft
Finished Capacity	0 gal/min

Well Permit Number : **2800054460** MW7

Well General Information				
Well Permit Number	Primary Use	Permit Approval Date	Drilling End Date	STATUS
2800054460	Monitoring	12/13/04	12/22/04	Authorized

Well Owner Information	
First Name	Last Name
WALTER	LAPP

Well Location Information	
County	Middlesex
Municipality (Loc Pt Details)	North Brunswick Twp
Address Line 1	1698 GEORGES ROAD (RT.130)
Address Line 2	NORTH BRUNSWICK GULF
NJ GRID	2803392
Block	282
Lot	1
X Coordinate	742819
Y Coordinate	402632
Location System (Loc Pt Details)	Lat/Long (NAD27) - DMS

Well Information	
Subject Item Desc	MW-7
Proposed Depth	20 ft

Finished Depth	20 ft
Finished Capacity	0 gal/min

Well Permit Number : **2800054461** MW6

Well General Information				
Well Permit Number	Primary Use	Permit Approval Date	Drilling End Date	STATUS
2800054461	Monitoring	12/13/04	12/23/04	Authorized

Well Owner Information	
First Name	Last Name
WALTER	LAPP

Well Location Information	
County	Middlesex
Municipality (Loc Pt Details)	North Brunswick Twp
Address Line 1	1698 GEORGES ROAD (RT.130)
Address Line 2	NORTH BRUNSWICK GULF
NJ GRID	2803392
Block	282
Lot	1
X Coordinate	742819
Y Coordinate	402632
Location System (Loc Pt Details)	Lat/Long (NAD27) - DMS

Well Information	
Subject Item Desc	MW-6
Proposed Depth	20 ft
Finished Depth	20 ft
Finished Capacity	0 gal/min

Well Permit Number : **2800054462** MW5

Well General Information				
Well Permit Number	Primary Use	Permit Approval Date	Drilling End Date	STATUS
2800054462	Monitoring	12/13/04	12/23/04	Authorized

Well Owner Information	
First Name	Last Name
WALTER	LAPP

Well Location Information	
County	Middlesex
Municipality (Loc Pt Details)	North Brunswick Twp

Address Line 1	1698 GEORGES ROAD (RT.130)
Address Line 2	NORTH BRUNSWICK GULF
NJ GRID	2803392
Block	282
Lot	1
X Coordinate	742819
Y Coordinate	402632
Location System (Loc Pt Details)	Lat/Long (NAD27) - DMS

Well Information	
Subject Item Desc	MW-5
Proposed Depth	20 ft
Finished Depth	20 ft
Finished Capacity	0 gal/min

contact dep | privacy notice | legal statement | accessibility statement

department: njdep home | about dep | index by topic | programs/units | dep online
statewide: njhome | citizen | business | government | services A to Z | departments | search

Copyright © State of New Jersey, 1996-2004
Department of Environmental Protection
P. O. Box 402
Trenton, NJ 08625-0402

Last Updated: December 13, 2005

DWR-133M
1/09

Rec HAWK / 11

STATE OF NEW JERSEY SEP 30 2009
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

Permit No. PEXT 110653

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 28 . 03 . 392

Owner Thomas Csepes
Address 359 Washington Place
North Brunswick, NJ 08902

Driller Hamer, Inc
Address 665 Center Ave
Belford, NJ 07718

Name of Facility Residence
Address SAME

Diameter of Well(s)	4 Inches	Proposed Depth of Well(s)	20 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☒
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

LOCATION OF WELL(S)

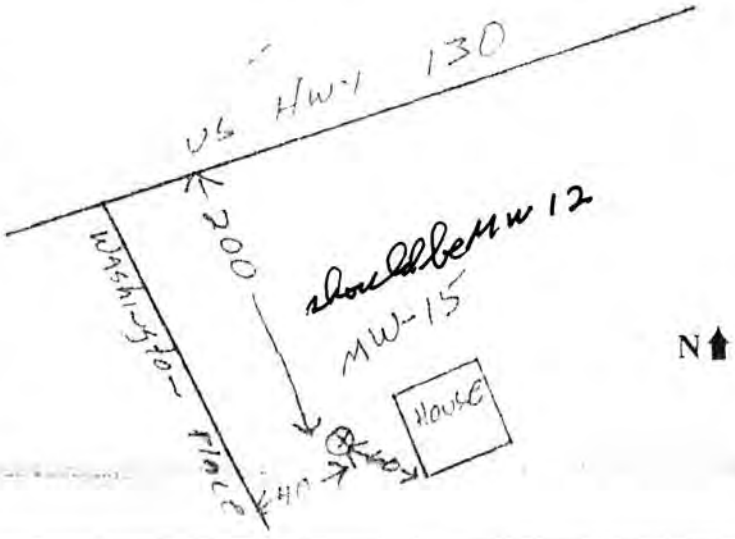
Lot #	Block #	Municipality	County
2	282	No. Brunswick	Middlesex

LOCAL ID	NORTHING (Y)	EASTING (X)
MW-15	586273	500236

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
☐ SURVEY ☒ DIGITAL IMAGE ☐ GPS

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED.

- ☐ RCRA Site
- ☒ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number
01-08-30-1546-00

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.
SEP - 3 2009
BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR D.E.P. USE ☐ ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☐ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 8/31/09 Signature of Driller [signature] Registration No. M1212

Signature of Property Owner Thomas Csepes

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

DWR-133M
1/09

Red Hawk

STATE OF NEW JERSEY SEP 30 2009
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

Permit No. [illegible]

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 28 . 03 . 392

Owner Thomas Copes
Address 359 Washington Place
North Brunswick, NJ 08902

Driller Hamer, Inc
Address 665 Center Ave
Belford, NJ 07718

Name of Facility Residence
Address Same

Diameter of Well(s)	4 Inches	Proposed Depth of Well(s)	20 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☐
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

LOCATION OF WELL(S)

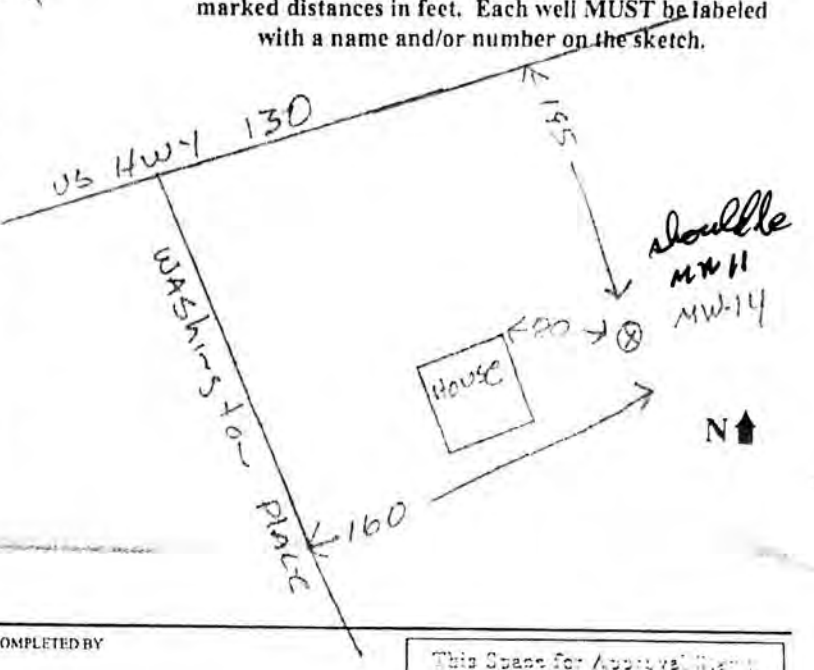
Lot #	Block #	Municipality	County
5	282	No. Brunswick	Middlesex

LOCAL ID	NORTHING (Y)	EASTING (X)
MW-14	586348	500337

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
☐ SURVEY ☒ DIGITAL IMAGE ☐ GPS

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☒ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number
01-08-30-1546-00

This Space for Approval Use

WELL PERMIT APPROVED
NJ DEP
SEP - 3 2009
BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR D.E.P. USE ☐ ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☐ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 8/31/09 Signature of Driller [signature] Registration No. M1212
Signature of Property Owner (FOR) Thomas Copes

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

RED HAWK

DWR-133M
1/09

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ SEP 30 2009

Permit No. _____

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

COORD #: 28 • 03 • 372

Owner WALTER LAPP
Address 1696 Georges Rd (RT 130)
North Brunswick, NJ 08902

Driller Hamer, Inc
Address 665 Center Ave
Belford, NJ 07719

Name of Facility Gulf Station
Address SAME

Diameter of Well(s)	4" Inches	Proposed Depth of Well(s)	20 Feet
# of Wells Applied for (max. 10)	2	Will pumping equipment be utilized?	YES ☐ NO ☐
Type of Well (see reverse)	monitoring	If Yes, give pump capacity	cumulative GPM

LOCATION OF WELL(S)

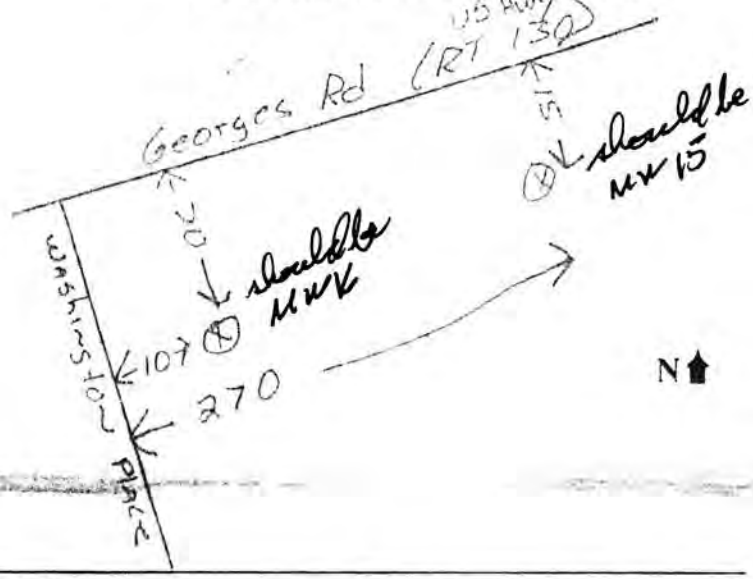
Lot #	Block #	Municipality	County
1	282	No. Brunswick	Middlesex

LOCAL ID	NORTHING (Y)	EASTING (X)
MW-11	586383	500087
MW-12	586517	500290

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
☐ SURVEY ☒ DIGITAL IMAGE ☐ GPS

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☒ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) _____
- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number
01-08-30-1546-00

This Space for Approval Stamp

WELL PERMIT APPROVED
No. [illegible]
SEP - 3 2009
BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR D.E.P. USE ☐ ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☐ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 8/31/09 Signature of Driller _____ Registration No. M1213

Signature of Property Owner for Walter Lapp

COPIES: Water Systems & Well Permitting - White Health Dept - Yellow Owner - Blue Driller - White

DWR-133M
1/09

Red Hawk

SEP 3 0 2009

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

Permit No. PJF 110153

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 28 · 03 · 392

Owner Denice Luzak
Address 368 Washington Place
North Brunswick, NJ 08902

Driller Hamer, Inc.
Address 665 Center Ave
Belford, NJ 07718

Name of Facility Residence
Address Same (368)

Diameter of Well(s)	4 inches	Proposed Depth of Well(s)	20 feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☒
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

LOCATION OF WELL(S)

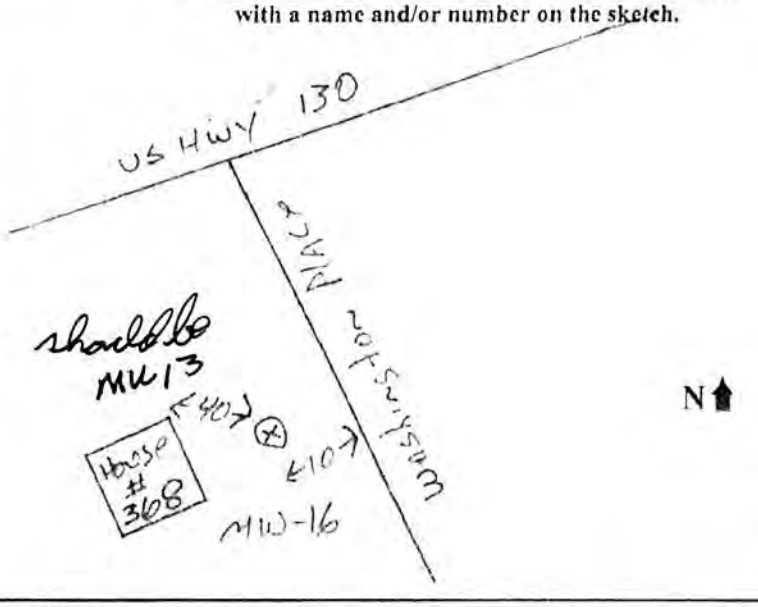
Lot #	Block #	Municipality	County
2	283	No. Brunswick	Middlesex

LOCAL ID	NORTHING (Y)	EASTING (X)
MW-16	586239	501157

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
☐ SURVEY ☒ DIGITAL IMAGE ☐ GPS

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED.

- ☐ RCRA Site
- ☒ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number 01-08-301546-00

This Space for Approval Only

WELL PERMIT APPROVED
N.J. D.E.P.
SEP - 3 2009
BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR D.E.P. USE ☐ ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☐ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 8/31/09 Signature of Driller [signature] Registration No. M1212
Signature of Property Owner FOR Denice Luzak

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

Red Hawk

SEP 30 2009

DWR-133M
1/09

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

Permit No. PXT 111651

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 28 • 03 • 392

Owner Jacob Krauser

Address 1674 US Hwy 130
North Brunswick, NJ 08902

Name of Facility STRIP MALL

Address SAME

Driller HAMEL, INC

Address 665 Center Ave
Belford, NJ 07718

Diameter of Well(s)	4 Inches	Proposed Depth of Well(s)	20 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☐
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

LOCATION OF WELL(S)

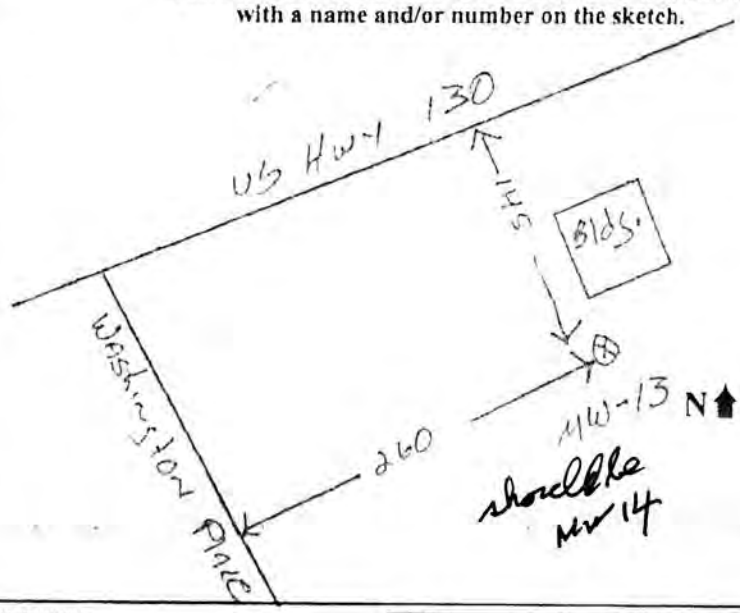
Lot #	Block #	Municipality	County
1	278	No. Brunswick	Middlesex

LOCAL ID	NORTHING (Y)	EASTING (X)
MW-13	586420	500379

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
☐ SURVEY ☒ DIGITAL IMAGE ☐ GPS

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☒ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number 01-08-30-1546-00

This Space for Approval Mark

WELL PERMIT APPROVED
SEP - 3 2009
BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR D.E.P. USE ☐ ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☐ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 8/31/09 Signature of Driller [signature] Registration No. 11212

Signature of Property Owner (FOR) Jacob Krauser

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

New Jersey Department of Environmental Protection
Bureau of Water Allocation

SEP 30 2009

Well Permit Number
P200910661

MONITORING WELL RECORD

Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1696 GEORGES RD (RT. 130)

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-12 shallow MW16

County Middlesex Municipality North Brunswick Twp Lot No. 1 Block No. 282

Address 1696 GEORGES RD (RT. 130) MW-12

WELL USE Monitoring

DATE WELL STARTED 9-22-09

DATE WELL COMPLETED 9-22-09

WELL CONSTRUCTION

Total Depth Drilled 19 ft.

Finished Well Depth 19 ft.

Borehole Diameter:

0-7 Top 10" in.

7-19 Bottom 8" in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☐ Yes ☑ No

Static Water Level after drilling 7 ft.

Water Level was Measured Using Tape

Well was developed for .5 hours

at .5 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type SUB.

Drilling Fluid None Type of Rig Simco 2800

Health and Safety Plan Submitted? ☐ Yes ☑ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4	4"	PVC	Sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 020)	4	19	4"	PVC	Sch. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	19		Morie #2	
Grout				Neat Cement	94 lbs
				Bentonite	5 lbs

Grouting Method Tremie

Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-7' Clean Fill

7-19' Red Brown Glacial Till

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) James Burton

Driller's Signature [signature]

Registration No. 1375 Date 9/22/09

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 586519 EASTING: 500289

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

SEP 30 2009

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
P200910660

MONITORING WELL RECORD

Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1696 GEORGES RD (RT. 130)

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-11 shallow MW 15 EF

County Middlesex Municipality North Brunswick Twp Lot No. 1 Block No. 282

Address 1696 GEORGES RD (RT. 130) MW-11

WELL USE Monitoring

DATE WELL STARTED 9-22-09

DATE WELL COMPLETED 9-22-09

WELL CONSTRUCTION

Total Depth Drilled 20' ft.

Finished Well Depth 20' ft.

Borehole Diameter:

0-7 Top 10" in.

7-20' Bottom 8" in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☐ Yes ☒ No

Static Water Level after drilling 13' ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at .5 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type SUB.

Drilling Fluid None Type of Rig SINCO 2800

Health and Safety Plan Submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	5'	4"	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 020)	5'	20'	4"	PVC	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3'	20'		Morie #2	
Grout	.5'	3'		Neat Cement	94 lbs
				Bentonite	5 lbs

Grouting Method Tremie

Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-20' Reddish Brown silty sand Trace of Clay. Very Dense

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 586380 EASTING: 500099

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) James Burton

Driller's Signature [signature]

Registration No. 13752 Date 9/22/09

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

New Jersey Department of Environmental Protection SEP 30 2009 Well Permit Number
Bureau of Water Allocation P200910659

MONITORING WELL RECORD

Atlas Sheet Coordinates 2803392

OWNER IDENTIFICATION JACOB KRAUSER

Address 1674 US HWY 130

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-13 should be MW-14 EF

County Middlesex Municipality North Brunswick Twp Lot No. 1 Block No. 278

Address 1674 US HWY 130 MW-13

WELL USE Monitoring

DATE WELL STARTED 9-22-09

DATE WELL COMPLETED 9-22-09

WELL CONSTRUCTION

Total Depth Drilled 19' ft.

Finished Well Depth 19' ft.

Borehole Diameter:

0-5' Top 10" in.

5-19' Bottom 8" in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☐ Yes ☑ No

Static Water Level after drilling 14' ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at .5 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type SUB.

Drilling Fluid None Type of Rig Simco 2800

Health and Safety Plan Submitted? ☐ Yes ☑ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4'	4"	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 000)	4'	19'	4"	PVC	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	19'		Morie #2	
Grout	.5	2'		Neat Cement	94 lbs
				Bentonite	5 lbs

Grouting Method Tremie

Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-13' Light Brown Silty Fine Sand

13-19' Black (F-M) Silty Sand

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) James Burton

Driller's Signature James C. Burton

Registration No. 13752 Date 9/22/09

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 586429 EASTING: 500379

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

New Jersey Department of Environmental Protection
Bureau of Water Allocation

SEP 30 2009

Well Permit Number
P200910655

Atlas Sheet Coordinates
2803392

MONITORING WELL RECORD

OWNER IDENTIFICATION DENICE LUZAK

Address 368 WASHINGTON PLACE

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-16 should be MW13 FJ

County Middlesex Municipality North Brunswick Twp Lot No. 2 Block No. 283

Address 368 WASHINGTON PLACE MW-16

WELL USE Monitoring

DATE WELL STARTED 9-24-09

DATE WELL COMPLETED 9-24-09

WELL CONSTRUCTION

Total Depth Drilled 19' ft.

Finished Well Depth 19' ft.

Borehole Diameter:

0-5' Top 10" in.

5'-19' Bottom 8" in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☐ Yes ☑ No

Static Water Level after drilling 14' ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at 2 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type Submersible

Drilling Fluid None Type of Rig SimCo 2800

Health and Safety Plan Submitted? ☐ Yes ☑ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4'	4"	PVC	Sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 020)	4'	19'	4"	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	19'		Morie #2	
Grout	.5	2'		Neat Cement Bentonite	94 lbs 5 lbs

Grouting Method Tremie

Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-19' Brown Dense (F-M) Sand some silt Trace of Clay

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) James Burton

Driller's Signature James C. Burton

Registration No. 13752 Date 9/24/09

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 586235 EASTING: 500149

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

New Jersey Department of Environmental Protection
Bureau of Water Allocation SEP 30 2009

Well Permit Number P200910653

MONITORING WELL RECORD

Atlas Sheet Coordinates 2803392

OWNER IDENTIFICATION THOMAS CSEPES

Address 359 WASHINGTON PLACE

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-15 should be MW-12

County Middlesex Municipality North Brunswick Twp Lot No. 2 Block No. 282

Address 359 WASHINGTON PLACE MW-15

WELL USE Monitoring

DATE WELL STARTED 9-24-09

DATE WELL COMPLETED 9-24-09

WELL CONSTRUCTION

Total Depth Drilled 18' ft.

Finished Well Depth 18' ft.

Borehole Diameter:

0-5' Top 10" in.

5-18' Bottom 8" in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☐ Yes ☑ No

Static Water Level after drilling 11' ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at 1 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type SUB.

Drilling Fluid None Type of Rig Simco 2800

Health and Safety Plan Submitted? ☐ Yes ☑ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	3'	4"	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 0.010)	3'	18'	4"	PVC	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	18'		Morie #2	
Grout	.5	2'		Neat Cement	94 lbs
				Bentonite	5 lbs

Grouting Method Tremie

Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-11' Brown silty Sand.

11-15' Light Brown (F-M) Sand Trace of silt

15-18' Grey (F) silt

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) James Burton

Driller's Signature

Registration No. 13752 Date 9/04/09

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 586268 EASTING: 500233

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

New Jersey Department of Environmental Protection
Bureau of Water Allocation

SEP 30 2009

Well Permit Number
P200910654

MONITORING WELL RECORD

Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION THOMAS CSEPES

Address 359 WASHINGTON PLACE

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-14 should be MW 11

County Middlesex Municipality North Brunswick Twp Lot No. 5 Block No. 282

Address 359 WASHINGTON PLACE MW-14

WELL USE Monitoring

DATE WELL STARTED 9-24-09

DATE WELL COMPLETED 9-24-09

WELL CONSTRUCTION

Total Depth Drilled 19' ft.

Finished Well Depth 19' ft.

Borehole Diameter:

0-5' Top 10" in.

5'-19' Bottom 8" in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☐ Yes ☒ No

Static Water Level after drilling 13' ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at 1 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type SUB

Drilling Fluid None Type of Rig Simco 2800

Health and Safety Plan Submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4'	4"	PVC	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 020)	4'	19'	4"	PVC	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	19'		Morie #1	
Grout	.5	2'		Neat Cement	94 lbs
				Bentonite	5 lbs

Grouting Method Tremie

Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-19 Brown (FM) sand
Trace of Clay

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) James Burton

Driller's Signature James C Burton

Registration No. 13755 Date 9/24/09

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 586429 EASTING: 500379

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middelsex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Mr. Thomas Csepec
2. Well Location (Street Address): 359 Washington Place North Brunsick, NJ 08902
3. Well Location (Municipal Block and Lot) Block# 282 Lot # 2

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	P200910654
2. Site Well Number as shown on application or plans):	MW 11
3. Well Completion Date:	9/22/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.10
5. Total Depth of Well to the nearest ½ foot:	20'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	4.10
7. Screen Length (or length of open hole) in feet:	15'
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	pvc
10. Casing Material (PVC, steel, or other – specify):	pvc
11. Casing Diameter (inches):	4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	dry next day 9.05'
13. Yield (gallons per minute):	<0.5
14. Development Techinque (specify):	submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes):	30 minutes

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middelsex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Mr. Thomas Csepes
2. Well Location (Street Address): 359 Washington Place North Brunsick, NJ 08902
3. Well Location (Municipal Block and Lot) Block# 282 Lot # 5

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):	P200910653
2. Site Well Number as shown on application or plans):	MW 12
3. Well Completion Date:	9/22/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.12
5. Total Depth of Well to the nearest ½ foot:	19.02'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):	4.09
7. Screen Length (or length of open hole) in feet:	15'
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	pvc
10. Casing Material (PVC, steel, or other – specify):	pvc
11. Casing Diameter (inches):	4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	dry next day 3.98'
13. Yield (gallons per minute):	<0.5
14. Development Techinque (specify):	submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes):	30 minutes

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middelsex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Denise Luzack
2. Well Location (Street Address): 368 Washington Place North Brunsick, NJ 08902
3. Well Location (Municipal Block and Lot) Block# 283 Lot # 2

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	P200910655
2. Site Well Number as shown on application or plans):	MW 13
3. Well Completion Date:	9/22/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.34
5. Total Depth of Well to the nearest ½ foot:	19.05'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	4.05
7. Screen Length (or length of open hole) in feet:	15'
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	pvc
10. Casing Material (PVC, steel, or other – specify):	pvc
11. Casing Diameter (inches):	4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	dry next day 6.27'
13. Yield (gallons per minute):	<0.5
14. Development Techinque (specify):	submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes):	30 minutes

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middelsex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Krauszer Family, LLC
2. Well Location (Street Address): 1674 Georges Rd Rt 130 North Brunswick, NJ
3. Well Location (Municipal Block and Lot) Block# 278 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):	P200910659
2. Site Well Number as shown on application or plans):	MW 14
3. Well Completion Date:	9/24/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.13
5. Total Depth of Well to the nearest ½ foot:	18.59'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):	3.59
7. Screen Length (or length of open hole) in feet:	15'
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	pvc
10. Casing Material (PVC, steel, or other – specify):	pvc
11. Casing Diameter (inches):	4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	dry
13. Yield (gallons per minute):	<0.5
14. Development Techinque (specify):	none
15. Length of Time well is developed/pumped or bailed (hours and minutes):	0 minutes

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middelsex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC
2. Well Location (Street Address) 1696 Georges Rd North Brunswick, NJ
3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	P200910660
2. Site Well Number as shown on application or plans):	MW 15
3. Well Completion Date:	9/24/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.11
5. Total Depth of Well to the nearest ½ foot:	17.53'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	2.53
7. Screen Length (or length of open hole) in feet:	15'
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	pvc
10. Casing Material (PVC, steel, or other – specify):	pvc
11. Casing Diameter (inches):	4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	7.92
13. Yield (gallons per minute):	~0.5
14. Development Techinque (specify):	submersible
15. Length of Time well is developed/pumped or bailed (hours and minutes):	30 minutes

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middelsex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC
2. Well Location (Street Address) 1696 Georges Rd North Brunswick, NJ
3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):	P200910661
2. Site Well Number as shown on application or plans):	MW 16
3. Well Completion Date:	9/24/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.39
5. Total Depth of Well to the nearest ½ foot:	18.68'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):	3.68'
7. Screen Length (or length of open hole) in feet:	15'
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	pvc
10. Casing Material (PVC, steel, or other – specify):	pvc
11. Casing Diameter (inches):	4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	18.25
13. Yield (gallons per minute):	0 not enough water to develop
14. Development Techinque (specify):	none
15. Length of Time well is developed/pumped or bailed (hours and minutes):	0 minutes

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201804577

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: TOWNSHIP OF NORTH BRUNSWICK

Organization: Township of North Brunswick

Address: 710 Hermann Road

City: North Brunswick State: New Jersey Zip Code: 08902

PROPOSED WELL LOCATION

Facility Name: Shoulder Route 130 Southbound

Address: Shoulder Route 130 Southbound

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500088 Northing (Y): 586526
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-17

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s):

Diameter (in.): 2

Regulatory Program Requiring Wells/Borings:

Depth (ft.): 20

Case ID Number:

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments:

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 14, 2018
Expiration Date: May 14, 2019

Approved by the authority of:
Catherine R. McCabe
Acting Commissioner

Terry D. Pilawski

Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Wells
PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201804577

WELL PERMIT

New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201804577

MONITORING WELL RECORD

PROPERTY OWNER: TOWNSHIP OF NORTH BRUNSWICK

Company/Organization: Township of North Brunswick

Address: 710 Hermann Road North Brunswick, New Jersey 08902

WELL LOCATION: Shoulder Route 130 Southbound

Address: Shoulder Route 130 Southbound

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500088 Northing (Y): 586526
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 25, 2018

DATE WELL COMPLETED: May 25, 2018

WELL USE: MONITORING

Other Use(s):

Local ID: MW-17

WELL CONSTRUCTION

Total Depth Drilled (ft.): 13 Finished Well Depth (ft.): 13 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	13	8		
Casing	0	3	2	PVC	Sch 40
Screen	3	13	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	1	8	2	6		3
Gravel Pack	1	13	8	2	Morie #1		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 5 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: .5 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 7822
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: Black OT - Other Asphalt
.5 - 13: brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins, MONITORING LICENSE # 763199 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Lawrence Fuel LLC

List all AKAs: 1696 Route 130 LLC AKA North Brunswwick Gulf

Street Address: 1696 Georges Rd Rt 130

Municipality: North Bruswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 RT 130 LLC
2. Well Location (Street Address) south bound lane of RT 130 by MP 81.5
3. Well Location (Municipal Block and Lot) Block# none Lot # none

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	E201804577
2. Site Well Number as shown on application or plans):	MW 17
3. Well Completion Date:	05/25/2018
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.41
5. Total Depth of Well to the nearest ½ foot:	13.2 from top of casing
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	3.2'
7. Screen Length (or length of open hole) in feet:	10'
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2-inch
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	2.72'
13. Yield (gallons per minute):	0.5
14. Development Techinque (specify):	submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes):	15 minutes

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201804578

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: TOWNSHIP OF NORTH BRUNSWICK

Organization: Township of North Brunswick

Address: 710 Hermann Road

City: North Brunswick State: New Jersey Zip Code: 08902

PROPOSED WELL LOCATION

Facility Name: Washington Place ROW

Address: Washington Place ROW

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500230 Northing (Y): 586214
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-18

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s):

Diameter (in.): 2

Regulatory Program Requiring Wells/Borings:

Depth (ft.): 20

Case ID Number:

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments:

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 14, 2018
Expiration Date: May 14, 2019

Approved by the authority of:
Catherine R. McCabe
Acting Commissioner

Terry D. Pilawski

Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Wells
PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201804578

WELL PERMIT

New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201804578

MONITORING WELL RECORD

PROPERTY OWNER: TOWNSHIP OF NORTH BRUNSWICK

Company/Organization: Township of North Brunswick

Address: 710 Hermann Road North Brunswick, New Jersey 08902

WELL LOCATION: Washington Place ROW

Address: Washington Place ROW

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500230 Northing (Y): 586214
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: September 13, 2018

DATE WELL COMPLETED: September 13, 2018

WELL USE: MONITORING

Other Use(s):

Local ID: MW-18

WELL CONSTRUCTION

Total Depth Drilled (ft.): 20 Finished Well Depth (ft.): 20 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	20	8		
Casing	0	5	2	PVC	Sch 40
Screen	5	20	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	3	8	2	15		7.50
Gravel Pack	3	20	8	2	Morie #1		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 7 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: 1 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 7822
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: Black OT - Other Asphalt
.5 - 20: Brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins, MONITORING LICENSE # 763199 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Lawrence Fuel, LLC

List all AKAs: 1696 Rt 130 LLC AKA: North Brunswick Gulf

Street Address: 1696 Georges Rd RT 130

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC
2. Well Location (Street Address) north bound lane of Washington Place
3. Well Location (Municipal Block and Lot) Block# none Lot # none

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	E201804578
2. Site Well Number as shown on application or plans):	MW 18
3. Well Completion Date:	09/13/20118
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.54'
5. Total Depth of Well to the nearest ½ foot:	20.08'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	5.08 from top of casing
7. Screen Length (or length of open hole) in feet:	15'
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2-inch
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	7.46'
13. Yield (gallons per minute):	<0.30
14. Development Techinque (specify):	submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes):	34 minutes

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201804573

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130, LLC

Address: 555 Georges Road

City: North Brunswick State: New Jersey Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: North Brunswick Gulf

Address: 1696 Georges Road aka Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500292 Northing (Y): 586404
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-19

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s):

Diameter (in.): 2

Regulatory Program Requiring Wells/Borings:

Depth (ft.): 20

Case ID Number:

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments:

SPECIFIC CONDITIONS/REQUIREMENTS

Terry D. Pilawski

Approval Date: May 14, 2018
Expiration Date: May 14, 2019

Approved by the authority of:
Catherine R. McCabe
Acting Commissioner

Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Wells
PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201804573

WELL PERMIT

New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201804573

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130, LLC

Address: 555 Georges Road North Brunswick, New Jersey 08810

WELL LOCATION: North Brunswick Gulf

Address: 1696 Georges Road aka Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500292 Northing (Y): 586404
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 24, 2018

DATE WELL COMPLETED: May 24, 2018

WELL USE: MONITORING

Other Use(s):

Local ID: MW-19

WELL CONSTRUCTION

Total Depth Drilled (ft.): 20 Finished Well Depth (ft.): 20 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	20	8		
Casing	0	5	2	PVC	Sch 40
Screen	5	20	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	3	8	2	15		7.5
Gravel Pack	3	20	8	2	Morie #1		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 10 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: 1 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 7822
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - 5: B;ack OT - Other Fill material
5 - 20: Grey SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins, MONITORING LICENSE # 763199 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Laawrence Fuel LLC

List all AKAs: 1696 Rt 130 LLC AKA: North Brunswick Gulf

Street Address: 1696 Georges Rd RT 130

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC
2. Well Location (Street Address) 1696 Georges Rd RT 130
3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):	E201804573
2. Site Well Number as shown on application or plans):	MW 19
3. Well Completion Date:	05/25/2018
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	-0.42
5. Total Depth of Well to the nearest ½ foot:	20.4 from top of casing
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):	5.4
7. Screen Length (or length of open hole) in feet:	15'
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2-inch
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	3.40
13. Yield (gallons per minute):	< 0.25
14. Development Techinque (specify):	submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes):	60 minutes

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201812604

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: TOWNSHIP OF NORTH BRUNSWICK

Organization: Township of North Brunswick

Address: 710 Herman Road

City: North Brunswick State: New Jersey Zip Code: 08902

PROPOSED WELL LOCATION

Facility Name: Washington Place ROW

Address: Washington Place

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500283 Northing (Y): 586156
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-20

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s):

Diameter (in.): 2

Regulatory Program Requiring Wells/Borings:

Depth (ft.): 20

Case ID Number:

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments:

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: December 6, 2018
Expiration Date: December 6, 2019

Approved by the authority of:
Catherine R. McCabe
Commissioner

Terry D. Pilawski

Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Wells
PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201812604

WELL PERMIT

New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201812604

MONITORING WELL RECORD

PROPERTY OWNER: TOWNSHIP OF NORTH BRUNSWICK

Company/Organization: Township of North Brunswick

Address: 710 Herman Road North Brunswick, New Jersey 08902

WELL LOCATION: Washington Place ROW

Address: Washington Place

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500283 Northing (Y): 586156
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 14, 2018

DATE WELL COMPLETED: December 14, 2018

WELL USE: MONITORING

Other Use(s):

Local ID: MW-20

WELL CONSTRUCTION

Total Depth Drilled (ft.): 19 Finished Well Depth (ft.): 19 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	19	8		
Casing	0	4	2	PVC	Sch 40
Screen	4	19	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	8	2	10		5
Gravel Pack	2	19	8	2	Morie #1		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 10 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: .5 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 7822
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: Black OT - Other Asphalt
.5 - 19: Brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins, MONITORING LICENSE # 763199 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Rt 130 LLC

List all AKAs: North Brunswwick Gulf

Street Address: 1696 Georges Rd

Municipality: North Brunswick (Township, Borough or City)

County: Middelsex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Walter Lapp & RuthFrey
2. Well Location (Street Address) north bound lane of Washington Place
3. Well Location (Municipal Block and Lot) Block# none Lot # none

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):	E201812604
2. Site Well Number as shown on application or plans):	MW-20
3. Well Completion Date:	12/14/2018
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	0.60
5. Total Depth of Well to the nearest ½ foot:	19.0
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):	4.0
7. Screen Length (or length of open hole) in feet:	15
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	pvc
10. Casing Material (PVC, steel, or other – specify):	pvc
11. Casing Diameter (inches):	2-inch
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	18.5' 2 hrs after installation
13. Yield (gallons per minute):	very slow
14. Development Techinque (specify):	none not enough water
15. Length of Time well is developed/pumped or bailed (hours and minutes):	0

Appendix E

Purge Data

WELL SAMPLING FORM

Site Name:	North Brunswick Gulf					
Address:						
Date:	12/5 & 6/07					
Weather:	35 and cloudy					
Sampled By:	Frank Jasiulewicz					
Well #:	**MW 1**	**MW 2**	**MW 3**	**MW 4**	**MW 5**	**MW 6**
Well Diameter: (inches)	4"	4"	4"	4"	2"	2"
Conversion Factor:	0.6528	0.6528	0.6528	0.6528	0.1632	0.1632
Total Depth of Well: (ft) TOC	20.1	20.29	20.25	21.08	19.43	19.48
Depth to Screen: (ft) TOC						
PRE PURGE DATA:						
Date:	12/5/07	12/5/07	12/5/07	12/5/07	12/5/07	12/5/07
Depth to Water: (feet) TOC	6.97	5.58	5.35	3.05	7.41	7.08
Depth to Product: (ft)	-	-	-	-	-	-
Product Thickness: (ft)	-	-	-	-	-	-
Feet of Water in Well: (ft)	13.13	14.71	14.90	18.03	12.02	12.40
Volume of Water in Well: (gallons)	8.6	9.6	9.7	11.8	2	2
3 Well Volumes: (gallons)	25.7	28.8	29.2	35.5	5.9	6.1
Dissolved Oxygen: (ppm)	0.19	0.18	0.31	0.25	0.14	0.12
Temperature: (degrees C)	18.7	19.1	18.8	16.3	17.5	17.7
pH:	6.76	6.33	5.73	5.59	6.71	6.51
Conductivity: (uS)	397	260	456	321	271	404
Purge Data:						
Purge Method:	submersible	submersible	submersible	submersible	submersible	submersible
Time Purge Began:	13:18	12:09	11:17	10:53	13:41	12:52
Time Purge Ended:	13:44	12:38	14:40	11:34	13:54	13:03
Purge Rate: (gpm)						
Total Volume Purged: (gallons)	30	25 (dry)	18 (dry)	16 (dry)	15	10
Depth to Water After Purging: (ft)	9.30	19.00	17.00	19.00	7.61	7.30
Dissolved Oxygen: (ppm)	0.15	0.19	0.20	0.30	0.09	0.09
Temperature: (degrees C)	18.6	19.4	18.6	15.8	18.3	18.6
pH:	6.42	6.14	6.50	5.83	6.48	6.48
Conductivity: (uS)	384	264	452	314	256	410
Prior to Sampling:						
Depth to Water Before Sampling: (ft)	7.04	5.99	9.51	9.09	7.50	7.27
Time	14:02	12:13 (12/6/07)	11:45 (12/6/07)	10:55 (12/6/07)	14:12	13:09
Sampling & After Sampling Data:						
Sample Start Time	14:07	12:18	11:50	11:00	14:17	13:12
Sample End Time	14:10	12:21	11:53	11:03	14:20	13:15
Sample Method:	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
Dissolved Oxygen After: (ppm)	0.20	0.10	0.19	0.34	0.08	0.08
Temperature After: (degrees C)	17.7	19.6	19.0	16.0	18.4	18.7
pH After:	6.34	6.07	6.13	5.93	6.40	6.46
ConductivityAfter: (uS)	372	265	399	312	253	414
Field Observations:						
Color:						
Sheen:						
Odor:						
Recharge Rate:						
Comment:						

WELL SAMPLING FORM

Site Name:	North Brunswick Gulf					
Address:						
Date:	12/5 & 6/07					
Weather:	35 and cloudy					
Sampled By:	Frank Jasiulewicz					
Well #:	**MW 7**	**MW 8**	**MW 9**	**MW 10**	**RW 1**	
Well Diameter: (inches)	2"	2"	2"	2"	6"	
Conversion Factor:	0.1632	0.1632	0.1632	0.1632	1.4688	
Total Depth of Well: (ft) TOC	19.37	18.2	18.82	19.32	15	
Depth to Screen: (ft) TOC						
PRE PURGE DATA:						
Date:	12/5/07	12/5/07	12/5/07	12/5/07	12/5/07	
Depth to Water: (feet) TOC	6.81	3.32	2.46	1.48	6.04	
Depth to Product: (ft)	-	-	-	-	-	
Product Thickness: (ft)	-	-	-	-	-	
Feet of Water in Well: (ft)	12.56	14.88	16.36	17.84	8.96	
Volume of Water in Well: (gallons)	2	2.4	2.7	2.9	13.2	
3 Well Volumes: (gallons)	6.1	7.3	8	8.7	39.5	
Dissolved Oxygen: (ppm)	0.17	0.19	1.16	2.38	0.35	
Temperature: (degrees C)	17.3	14.7	16.6	15.6	15.1	
pH:	6.43	5.72	4.03	6.86	6.9	
Conductivity: (uS)	367	213	376	252	396	
Purge Data:						
Purge Method:	submersible	submersible	submersible	submersible	submersible	
Time Purge Began:	11:58	10:07	10:27	9:46	14:15	
Time Purge Ended:	12:17	10:16	10:40	9:56	14:44	
Purge Rate: (gpm)						
Total Volume Purged: (gallons)	10	9	10	10	55	
Depth to Water After Purging: (ft)	18.30	15.80	17.05	14.40	6.05	
Dissolved Oxygen: (ppm)	0.17	0.29	1.55	2.06	0.34	
Temperature: (degrees C)	17.3	14.7	16.7	15.7	15.5	
pH:	7.3	5.83	4.22	5.37	7.04	
Conductivity: (uS)	359	206	349	273	411	
Prior to Sampling:						
Depth to Water Before Sampling: (ft)	6.81	4.02	7.50	3.19	6.05	
Time	11:10 (12/6/07)	10:40 (12/6/07)	10:25 (12/6/07)	10:07 (12/6/07)	14:51	
Sampling & After Sampling Data:						
Sample Start Time	11:15	10:45	10:30	10:12	14:56	
Sample End Time	11:18	10:48	10:33	10:15	14:59	
Sample Method:	Bailer	Bailer	Bailer	Bailer	Bailer	
Dissolved Oxygen After: (ppm)	0.15	0.23	1.51	1.99	0.17	
Temperature After: (degrees C)	17.3	14.8	16.9	15.9	15.5	
pH After:	6.53	5.94	4.01	4.83	6.95	
ConductivityAfter: (uS)	350	221	373	235	413	
Field Observations:						
Color:						
Sheen:						
Odor:						
Recharge Rate:						

WELL SAMPLING FORM

Site Name:	North Brunswick Gulf					
Address:	1696 George Road North Brunswick, NJ					
Weather:	85					
Sampled By:	Frank Jasiulewicz & David Galalda					
Well #:	**F 1**	**F 2**	**F 3**	**F 4**	**F 6**	**F 7**
Well Diameter: (inches)	1"	1"	1"	1"	1"	1"
Conversion Factor:	0.041	0.041	0.041	0.041	0.041	0.041
Total Depth of Well: (ft) TOC	20.2	14.7	11.66	20.82	15.1	13.35
Depth to Screen: (ft) TOC	5.2	4.7	2.46	5.82	5.1	3.35
PRE PURGE DATA:						
Date:	8/26/08	8/26/08	8/26/08	8/26/08	8/26/08	8/26/08
Depth to Water: (feet) TOC	6.02	4.58	6.65	14.33	7.14	7.55
Depth to Product: (ft)	-	-	-	-	-	-
Product Thickness: (ft)	-	-	-	-	-	-
Feet of Water in Well: (ft)	14.18	10.12	5.01	6.49	7.96	5.8
Volume of Water in Well: (gallons)	0.58	0.41	0.2	0.27	0.33	0.24
3 Well Volumes: (gallons)	1.74	1.2	0.6	0.8	1	0.7
Dissolved Oxygen: (ppm)	1.45	0.85	0.57	0.82	0.19	0.1
Temperature: (degrees C)	18.4	21.6	15.7	15.8	18.1	25.8
pH:	7.12	6.71	7.08	6.84	7.31	6.95
Conductivity: (uS)	377	350	223	194	279	324
Purge Data:						
Purge Method:	submersible	submersible	submersible	submersible	submersible	submersible
Time Purge Began:	2:38	2:54	8:55	9:25	1:15	12:17
Time Purge Ended:	2:43	3:00	9:02	9:30	1:20	12:25
Purge Rate: (gpm)						
Total Volume Purged: (gallons)	0.6	0.5	0.5	0.25	1.25	1.5
Depth to Water After Purging: (ft)	17	12.25	dry	dry		7.65
Dissolved Oxygen: (ppm)	1.33	1.09			0.17	0.08
Temperature: (degrees C)	17.6	21.5			17.3	25.1
pH:	6.94	6.8			7.07	
Conductivity: (uS)	381	342			261	
Prior to Sampling:						
Depth to Water Before Sampling: (ft)	16.3	11.1	7.24	18.33	7.5	7.65
Time	3:05	3:13	10:46	1:30	1:42	12:30
Sampling & After Sampling Data:						
Sample Start Time	3:05	3:14	10:51	1:35	1:47	12:35
Sample Method:	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
Dissolved Oxygen After: (ppm)		1.17	0.6		0.15	
Temperature After: (degrees C)		21.6	15.8		16.9	
pH After:			7.13		6.94	
ConductivityAfter: (uS)			183		264	
Field Observations:						
Color:						
Sheen:	none	none	none	none	none	none
Odor:	none	none	none	none	none	slight
Recharge Rate:						
	well in road	well in road				well in road
Comment:						

WELL SAMPLING FORM

Site Name:	North Brunswick Gulf							
Address:	1696 George Road North Brunswick, NJ							
Weather:	35 with occasional snow and rain showers							
Sampled By:	Frank Jasiulewicz & Zach Moyer							
Well #:	**F 10**	**F 13**	**F 14**	**F 15**	**F 16**	**F 17**	**F 18**	**F 20**
Well Diameter: (inches)	1"	1"	1"	1"	1"	1"	1"	1"
Conversion Factor:	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
Total Depth of Well: (ft) TOC	9.10	22.23	15.12	15.11	11.88	15.12	14.49	10.70
Depth to Screen: (ft) TOC	0.10	7.23	5.12	5.11	1.88	5.12	4.49	0.70
PRE PURGE DATA:								
Date:	2/18/09	2/19/09	2/18/09	2/19/09	2/19/09	2/19/09	2/19/09	2/19/09
Depth to Water: (feet) TOC	4.26	6.01	1.59	0.75	6.46	1.98	4.18	4.50
Depth to Product: (ft)	-	-	-	-	-	-	-	-
Product Thickness: (ft)	-	-	-	-	-	-	-	-
Feet of Water in Well: (ft)	4.84	16.22	13.53	14.36	5.42	13.14	10.31	6.20
Volume of Water in Well: (gallons)	0.19	0.66	0.55	0.58	0.22	0.53	0.42	0.25
3 Well Volumes: (gallons)	0.59	1.99	1.66	1.76	0.66	1.61	1.26	0.76
Dissolved Oxygen: (ppm)	3.11	2.82	4.12	2.86	1.28	0.32	0.15	0.2
Temperature: (degrees C)	9.2	13.6	11.1	6.3	10.6	10.4	10.3	9.8
pH:	7.37	8.32	6.96	7.02	6.38	8.24	6.86	7.51
Conductivity: (uS)	405	136	234	296	194	260	267	255
Purge Data:								
Purge Method:	submersible	submersible	submersible	submersible	submersible	submersible	submersible	submersible
Time Purge Began:	9:20	8:05	2:56	8:48	9:12	10:14	11:03	2:20
Time Purge Ended:	9:40	8:33	3:20	9:07	9:33	10:31	11:45	2:36
Purge Rate: (gpm)								
Total Volume Purged: (gallons)	5	3	0.5	1	1	3	2.5	2
Depth to Water After Purging: (ft)	4.30	6.01		2.20	1.81	0.67	4.13	3.90
Dissolved Oxygen: (ppm)	1.51	0.28		0.12	0.50	1.48	0.1	0.56
Temperature: (degrees C)	10.1	15.3		10.4	11.4	11.4	10.8	9.7
pH:	6.89	7.90	6.96		8.47	7.71	7.97	7.13
Conductivity: (uS)	359	160	230		219	258	180	270
Prior to Sampling:			2/19/2009					
Depth to Water Before Sampling: (ft)	4.30	6.01	1.59	2.20	1.81	0.67	4.13	3.90
Time	9:42	9:20	7:50	12:34	11:30	12:04	12:19	3:15
Sampling & After Sampling Data:								
Sample Start Time	945	922	755	1237	1133	1207	1221	1518
Sample Method:	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
Dissolved Oxygen After: (ppm)	1.36	0.26		0.10	0.32	0.42	0.09	0.15
Temperature After: (degrees C)	10.1	15.2		10.7	11.4	11.7	10.9	10.0
pH After:	6.72	7.77			8.36	7.30	7.59	7.15
ConductivityAfter: (uS)	355	159			202	243	236	264
Field Observations:								
Color:								
Sheen:	none	none	none	none	none	none	none	strong
Odor:	none	none	none	none	none	none	none	strong
Recharge Rate:								
Comment:	well in road shoulder		rained out on 2/18/09					

WELL SAMPLING FORM

Site Name:	North Brunswick Gulf					
Address:	1696 George Road North Brunswick, NJ					
Date:	10/19/2009 & 10/20/09					
Weather:	60					
Sampled By:	Frank Jasiulewicz & Ed Beale					
Well #:	**MW 1**	**MW 2**	**MW 3**	**MW 4**	**MW 5**	**MW 6**
Well Diameter: (inches)	4"	4"	4"	4"	2"	2"
Conversion Factor:	0.6528	0.6528	0.6528	0.6528	0.1632	0.1632
Total Depth of Well: (ft) TOC	20.1	20.29	20.25	21.08	19.43	19.48
Depth to Screen: (ft) TOC						
PRE PURGE DATA:						
Date:	10/19/09	10/19/09	10/19/09	10/19/09	10/19/09	10/19/09
Depth to Water: (feet) TOC	6.38	5.33	2.77	3.59	7.00	6.54
Depth to Product: (ft)	-	-	-	-	-	-
Product Thickness: (ft)	-	-	-	-	-	-
Feet of Water in Well: (ft)	13.72	14.96	17.48	17.49	12.43	12.94
Volume of Water in Well: (gallons)	8.9	9.7	11.4	11.4	2	2.1
3 Well Volumes: (gallons)	27	30	34.2	35	6	6.4
Dissolved Oxygen: (ppm)	0.27	0.18	0.44	0.34	0.3	0.19
Temperature: (degrees C)	19.2	21.4	20.3	17.7	20.8	20.3
pH:	7.55	6.63	6.24	7.05	7.46	7.34
Conductivity: (uS)	297	254	297	275	237	323
ORP (mv)	-54	-31	171	60	-50	-61
Purge Data:						
Purge Method:	submersible	submersible	submersible	submersible	submersible	submersible
Time Purge Began:	5:08	2:16	1:50	1:10	4:17	4:45
Time Purge Ended:	5:28	2:40	2:40	1:24	4:25	4:54
Total Volume Purged: (gallons)	30	23	10	14	7	8
Depth to Water After Purging: (ft)	6.45	Dry 13.55' @ 5:15	Dry 15.74' @ 6:03	Dry 11.94' @ 6:05	7.03	6.58
Post Purge Data						
Dissolved Oxygen: (ppm)	0.14	0.19	0.28	0.28	0.19	0.20
Temperature: (degrees C)	20.3	22.1	21.0	18.40	21	20.4
pH:	7.52	6.95	6.26	7.08	7.49	7.44
Conductivity: (uS)	301	232	301	264	231	329
ORP (mv)	-46	-28	208	79	-53	-73
Prior to Sampling:						
Date	10/19/2009	10/20/2009	10/20/2009	10/20/2009	10/19/2009	10/19/2009
Time	5:43	1:14	12:40	11:44	4:38	5:00
Depth to Water Before Sampling: (ft)	6.45	5.46	9.56	8.44	7.03	6.58
Sampling & Post Sampling Data:						
Sample Time	5:50	1:15	12:45	11:45	4:45	5:05
Sample Method:	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
Dissolved Oxygen After: (ppm)	0.15	2.89	3.74	0.75	0.18	0.17
Temperature After: (degrees C)	19.9	21.7	20.1	17.8	21	20.4
pH After:	7.51	6.55	7.17	5.68	7.47	7.44
ConductivityAfter: (uS)	315	232	354	291	231	326
ORP (mv)	-46	126	254	207	-53	-73
Field Observations:						
Color:		cloudy				
Sheen:						
Odor:	strong odor	strong odor				strong odor
Recharge Rate:		slow				
Comment:						

WELL SAMPLING FORM

Site Name:	North Brunswick Gulf					
Address:	1696 George Road North Brunswick, NJ					
Date:	10/19/2009 & 10/20/09					
Weather:	60					
Sampled By:	Frank Jasiulewicz & Ed Beale					
Well #:	**MW 7**	**MW 8**	**MW 9**	**MW 10**	**MW 11**	**MW 12**
Well Diameter: (inches)	2"	2"	2"	2"	4"	4"
Conversion Factor:	0.1632	0.1632	0.1632	0.1632	0.6528	0.6528
Total Depth of Well: (ft) TOC	19.37	18.2	18.82	19.32	19.1	19.09
Depth to Screen: (ft) TOC						
PRE PURGE DATA:						
Date:	10/19/09	10/19/09	10/19/09	10/19/09	10/19/09	10/19/09
Depth to Water: (feet) TOC	6.21	2.46	3.88	8.39	7.41	3.87
Depth to Product: (ft)	-	-	-	-	-	
Product Thickness: (ft)	-	-	-	-	-	
Feet of Water in Well: (ft)	13.16	15.74	14.94	10.93	11.69	15.22
Volume of Water in Well: (gallons)	2.1	2.6	2.4	1.8	7.6	9.9
3 Well Volumes: (gallons)	6.4	7.8	7.3	5.4	22.9	30
Dissolved Oxygen: (ppm)	0.13	0.76	0.32	0.31	1.81	0.27
Temperature: (degrees C)	18.5	15.6	16.8	16.9	14.4	17.3
pH:	7.66	6.62	5.85	5.85	5.33	5.84
Conductivity: (uS)	313	215	145	145	249	299
ORP (mv)	-89	272	293	183	355	-21
Purge Data:						
Purge Method:	submersible	submersible	submersible	submersible	submersible	submersible
Time Purge Began:	3:55	1:32	8:44	9:11	10:45	9:36
Time Purge Ended:	5:22	1:42	8:58	9:23	11:06	9:55
Purge Rate: (gpm)						
Total Volume Purged: (gallons)	7	7	8	7.5	20	22
Depth to Water After Purging: (ft)	9.82	Dry 11.32' @ 6:23	Dry 14.89 @ 6:20	Dry 16.28' @ 6:21	Dry 17.41' @ 6:16	Dry 4.61'@ 5:32
Post Purge Data						
Dissolved Oxygen: (ppm)	0.14	0.99	0.26	0.25	1.48	0.41
Temperature: (degrees C)	18.0	15.5	16.8	16.8	15.5	17.3
pH:	7.59	6.78	6.22	5.67	4.92	5.9
Conductivity: (uS)	319	224	207	145	243	317
ORP (mv)	-87		256	193	314	-17
Prior to Sampling:						
Date	10/20/2009	10/20/2009	10/20/2009	10/20/2009	10/20/2009	10/19/2009
Time	1:40	11:55	11:20	10:55	9:55	5:32
Depth to Water Before Sampling: (ft)	6.22	5.26	12.39	15.52	14.62	4.61
Sampling & Post Sampling Data:						
Sample Start Time	1:45	12:00	11:25	10:58	10:00	5:45
Sample End Time						
Sample Method:	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
Dissolved Oxygen After: (ppm)	0.99	3.30	4.46	1.5	2.14	0.48
Temperature After: (degrees C)	18.2	15.9	17.8	15.1	14.1	17
pH After:	6.74	5.57	5.24	5.97	7.30	5.93
ConductivityAfter: (uS)	286	173	175	139	313	294
ORP (mv)	5	133	332	288	361	-17
Field Observations:						
Color:						
Sheen:						
Odor:	yes					
Recharge Rate:						
Comment:						

WELL SAMPLING FORM

Site Name:	North Brunswick Gulf					
Address:	1696 George Road North Brunswick, NJ					
Date:	10/19/2009 & 10/20/09					
Weather:	60					
Sampled By:	Frank Jasiulewicz & Ed Beale					
Well #:	**MW 13**	**MW 14**	**MW 15**	**MW 16**	**RW 1**	
Well Diameter: (inches)	4"	4"	4"	4"	6"	
Conversion Factor:	0.1632	0.1632	0.1632	0.1632	1.4688	
Total Depth of Well: (ft) TOC	19.05	18.54	17.53	18.65	15	
Depth to Screen: (ft) TOC						
PRE PURGE DATA:						
Date:	10/19/09	10/19/09	10/19/09	10/19/09	10/19/09	
Depth to Water: (feet) TOC	3.18	0.10	6.49	4.09	5.33	
Depth to Product: (ft)	-	-	-	-	-	
Product Thickness: (ft)	-	-	-	-	-	
Feet of Water in Well: (ft)	15.87	18.53	11.04	14.56	7.27	
Volume of Water in Well: (gallons)	10.3	12.1	7.2	9.5	10.6	
3 Well Volumes: (gallons)	31	36.3	21.6	28.5	32	
Dissolved Oxygen: (ppm)	0.37	0.25	1.83	0.98	0.55	
Temperature: (degrees C)	16.0	16.1	17.0	17.5	20.7	
pH:	5.64	6.59	7.18	4.08	7.18	
Conductivity: (uS)	360	407	335	256	309	
ORP (mv)	147	-10	244	431	-91	
Purge Data:						
Purge Method:	submersible	submersible	submersible	submersible	submersible	
Time Purge Began:	10:06	12:08	12:36	11:28	3:16	
Time Purge Ended:	10:21	12:19	12:50	11:44	3:40	
Purge Rate: (gpm)						
Total Volume Purged: (gallons)	21	21	15	14	35	
Depth to Water After Purging: (ft)	Dry 15.91' @ 5:25	Dry 15.38' @ 5:58	Dry 6.56 @ 4:20	Dry 10.91' @ 5:16	5.35	
Post Purge Data						
Dissolved Oxygen: (ppm)	1.11	0.26	1.50	1.63	0.44	
Temperature: (degrees C)	16.5	15.3	17.8	18.4	21.0	
pH:	5.35	6.90	6.71	7.58	7.36	
Conductivity: (uS)	347	434	301	188	319	
ORP (mv)	159	-10	263	378	-87	
Prior to Sampling:						
Date	10/20/2009	10/20/2009	10/19/2009	10/20/2009	10/19/2009	
Time	10:25	1:55	4:20	1:00	3:42	
Depth to Water Before Sampling: (ft)	8.32	11.59	6.56	4.37	5.35	
Sampling & Post Sampling Data:						
Sample Start Time	10:30	2:00	4:25	1:05	3:43	
Sample End Time						
Sample Method:	Bailer	Bailer	Bailer	Bailer	Bailer	
Dissolved Oxygen After: (ppm)	3.27	5.47	1.5	5.26	0.26	
Temperature After: (degrees C)	16.3	16.1	17.8	18.5	20.9	
pH After:	6	6.49	6.71	6.92	7.49	
ConductivityAfter: (uS)	376	581	301	173	319	
ORP (mv)	277	105	263	337	-87	
Field Observations:						
Color:						
Sheen:						
Odor:						
Recharge Rate:						
Comment:						

Well Sampling Form - Volume average purge
Purge data not to be used for stability

Site Name:	North Brunswick Gulf											
Address:	1696 Georges Road RT 130											
Weather:	32 - 35											
Sampled By:	Frank Jasiulewicz & (NJ only on 12/19/16)											
Well #:	MW 1			MW 2			MW 3			MW 4		
Well Diameter: (inches)	4"			4"			4"			4"		
Conversion Factor:	0.6528			0.6528			0.6528			0.6528		
Total Depth of Well TOC: (ft)	20.1			20.29			20.25			21.08		
Depth to Screen TOC: (ft)	5			5			5			6.03		
Date:	12/21/16			12/19/16			12/19/16			12/19/16		
PRE PURGE DATA:												
Depth to Water:(feet)	8.27			6.60			5.98			3.01		
Depth to Product: (ft)	-			-			-			-		
Feet of Water in Well: (ft)	11.83			13.69			14.27			18.07		
Volume of Water in Well: (gallons)	7.7			8.7			9.3			11.8		
3 Well Volumes: (gallons)	23.2			27			28			35.4		
Purge Data:												
Purge Method:	Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Time Purge Began:	12.52			2:24			12:53			11:55		
Time Purge Ended:	1:30			2:51			1:17			12:37		
Purge Rate: (gpm)	0.65			0.67			0.79			0.52		
Total Volume Purged: (gallons)	25			18			19			22		
Gallons Purged	5	15	25	5	12	18	8	15	19	8	20	22
Temperature: (degrees C)	16.6	16.5	16.8	17.1	17.4	18.4	17.0	17.7		13.8	14.1	
PH:	6.56	6.48	6.42	5.63	5.8	5.94	4.89	4.82		6.21	6.29	
Conductivity: (uS)	1414	1438	1486	3417	3544	2980	856	833		775	772	
ORP (mv)	-33	-36	-39	178	149	106	189	191		51	81	
Dissolved Oxygen: (ppm)	0.19	0.13	0.09	3.99	1.62	0.27	0.11	0.08		0.87	0.91	
Turbidity (NTU)		32.9	12.5		507			44.1			16	
DTW during Purge (ft)			8.38			19.0			19.0			18.20
Maximum draw down (ft)	0.11'			12.4'			13.02'			15.19'		
DTW and Time				17.05' @ 4:50			17.12' @ 4:28			16.19 @ 4:31		
Prior to Sampling:												
Date	12/21/16			12/20/16			12/20/16			12/20/16		
Depth to Water Before Sampling: (ft)	8.30			7.83			11.50			10.97		
Time	1:35			11:46			10:43			10:20		
Sampling Data:												
Sample Start Time	1:38			11:50			10:45			10:25		
Sample Method:	Bailer			Bailer			Bailer			Bailer		
Field Observations:												
Sheen:												
Odor:	Yes			Yes			Yes					
Recharge Rate:	Good			Very poor			Very poor			Very poor		
Comment:				Sampled with 24 hrs.			Sampled within 24 hrs			Sampled within 24 hrs		

Well Sampling Form - Volume average purge
Purge data not to be used for stability

Site Name:	North Brunswick Gulf											
Address:	1696 Georges Road RT 130											
Weather:	32 -35											
Sampled By:	FJ & (NJ only on 12/19/16)											
Well #:	MW 5			MW 6			MW 7			MW 8		
Well Diameter: (inches)	2"			2"			2"			2"		
Conversion Factor:	0.1632			0.1632			0.1632			0.1632		
Total Depth of Well TOC: (ft)	19.43			19.48			19.37			18.2		
Depth to Screen TOC: (ft)												
Date:	12/21/16			12/21/16			12/21/16			12/19/16		
PRE PURGE DATA:												
Depth to Water: (feet)	8.95			8.43			8.07			2.43		
Depth to Product: (ft)	-			-			-			-		
Feet of Water in Well: (ft)	8.87			11.05			11.3			15.77		
Volume of Water in Well: (gallons)	1.4			1.8			1.8			2.57		
3 Well Volumes: (gallons)	4.3			5.4			5.5			8		
Purge Data:												
Purge Method:	Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Time Purge Began:	10:56			12:00			10:03			11:29		
Time Purge Ended:	11:13			12:15			10:24			11:44		
Purge Rate: (gpm)	0.29			0.40			0.29			0.53		
Total Volume Purged: (gallons)	5			6			6			8		
Gallons Purged	2	3.5	5	1.5	3	6	3	4	6	2	5	8
Temperature: (degrees C)	16.8	16.6	17.0	17.1	16.5	17.0	15.4	16.0	16.1	11.7	12.1	13.7
pH:	6.12	5.91	5.78	6.40	6.48	6.68	6.20	6.15	6.19	5.43	5.64	5.62
Conductivity: (uS)	363	399	405	1594	1591	1566	842	891	923	214	243	235
ORP (mv)	50	39	41	-40	-47	-92	5	-14	-39	180	134	116
Dissolved Oxygen: (ppm)	0.15	0.13	0.11	0.23	0.14	0.14	0.26	0.16	0.12	0.1	0.1	0.1
Turbidity (NTU)		464			18.1	6.4		10.5	12.5			27.3
DTW during Purge (ft)			12.01			9.12			15.70			14.9
Maximum Draw down (ft)	3.06'			0.69			7.63			12.47		
DTW & Time										5.70' @ 4:37		
Prior to Sampling:												
Date	12/21/16			12/21/16			12/21/16			12/20/16		
Depth to Water Before Sampling: (ft)	9.02			8.46			11.95			2.70		
Time	11:23			12:25			2:40			9:59		
Sampling Data:												
Sample Start Time	11:25			12:28			3:00			10:02		
Sample Method:	Bailer			Bailer			Bailer			Bailer		
Field Observations:												
Sheen:												
Odor:	Yes			Yes			Yes			Yes		
Recharge Rate:	Fair/good			Good			Poor			Poor		
Comment										Sampled within 24		

Well Sampling Form - Volume average purge
Purge data not to be used for stability

Site Name:	North Brunswick Gulf											
Address:	1696 Georges Road RT 130											
Weather:	32 - 35											
Sampled By:	FJ & NJ											
Well #:	MW 9			MW 10			MW 11			MW 12		
Well Diameter: (inches)	2"			2"			4"			4"		
Conversion Factor:	0.1632			0.1632			0.6528			0.6528		
Total Depth of Well TOC: (ft)	18.82			19.32			19.1			19.09		
Depth to Screen TOC: (ft)							4.10			4.09		
Date:	12/19/16			12/19/16			12/19/16			12/19/16		
PRE PURGE DATA:												
Depth to Water: (feet)	0.79			1.37			7.26			1.26		
Depth to Product: (ft)	-			-			-			-		
Feet of Water in Well: (ft)	18.03			17.95			11.84			17.83		
Volume of Water in Well: (gallons)	2.94			2.92			7.73			11.64		
3 Well Volumes: (gallons)	9			9			23.2			35		
Purge Data:												
Purge Method	Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Time Purge Began:	10:14			10:50			8:45			7:41		
Time Purge Ended:	10:38			11:15			8:55			8:27		
Purge Rate: (gpm)	0.29			0.36			0.65			0.72		
Total Volume Purged: (gallons)	7			9			6.5			35		
Gallons Purged	2	4	7	3	6	9	5	6.5		10	20	35
Temperature: (degrees C)	12.4	14.6	16.4	12.5	13.1	14.2	14.4			11.2	13.3	14.3
pH:	3.62	3.79	3.76	4.58	4.99	3.97	5.72			5.29	4.74	4.60
Conductivity: (uS)	344	363	371	321	372	420	741			190	153	146
ORP (mv)	331	354	358	245	147	209	130			148	165	240
Dissolved Oxygen: (ppm)	6.38	5.78	4.27	0.42	0.28	0.23	0.34			0.25	0.12	0.09
Turbidity (NTU)		17.2	22.6		6.2	5.2						10.7
DTW during Purge (ft)			17.2			12.28		18.12				16.3
Maximum Draw down (ft)	16.41			10.91			10.86			15.04		
DTW & Time	12.59' @4:44			5.16 @ 4:33			17.95' @4:19					
Prior to Sampling:												
Date	12/20/16			12/20/16			12/20/16			12/19/16		
Depth to Water Before Sampling: (ft)	4.01			1.42			17.74			1.90		
Time	9:37			9:16			8:08			4:10		
Sampling Data:												
Sample Start Time	9:40			9:19			8:10			4:15		
Sample Method:	Bailer			Bailer			Bailer			Bailer		
Field Observations:												
Sheen:												
Odor:				Yes/sewage?						Yes/sewage?		
Recharge Rate:	Very poor			Very poor			Very poor			Fair		
Comment:	Sampled within 24 hrs			Sampled within 24 hrs			Sampled within 24 hrs; not enough water for BN/SIMs/metals					

Well Sampling Form - Volume average purge
Purge data not to be used for stability

Site Name:	North Brunswick Gulf											
Address:	1696 Georges Road Rt 130											
Weather:	32 - 35											
Sampled By:	FJ & (NJ only on 12/19/16)											
Well #:	MW 13			MW 14			MW 15			MW 16		
Well Diameter: (inches)	4"			4"			4"			4"		
Conversion Factor:	0.6528			0.6528			0.6528			0.6528		
Total Depth of Well TOC: (ft)	19.05			18.54			17.53			18.65		
Depth to Screen TOC: (ft)	4.05			3.59			2.53			3.68		
Date:	12/19/16			12/19/16			12/20/16			12/19/16		
PRE PURGE DATA:												
Depth to Water: (feet)	0.52			7.16			8.24			2.63		
Depth to Product: (ft)	-			-			-			-		
Feet of Water in Well: (ft)	18.53			11.38			9.29			16.02		
Volume of Water in Well: (gallons)	12.1			7.4			6.1			10.45		
3 Well Volumes: (gallons)	36.3			22			18.2			31.3		
Purge Data:												
Purge Method:	Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Time Purge Began:	9:34			3:43			1:02			3:03		
Time Purge Ended:	9:56			3:51			2:00			3:23		
Purge Rate: (gpm)	0.77			1			0.28			0.8		
Total Volume Purged: (gallons)	17			8			16			16		
Gallons Purged	5	17		6	8		3	10	16	5	10	16
Temperature: (degrees C)	11.6			14.3			15.9	16.1	15.7	15.2	14.8	16.0
pH:	4.76			3.71			4.73	5.03	5.29	6.34	6.20	5.50
Conductivity: (uS)	388			3842			2206	2154	2002	474	464	483
ORP (mv)	115			317			262	213	224	75	129	190
Dissolved Oxygen: (ppm)	2.98	1.09		0.31			2.26			5.46	6.0	5.05
Turbidity (NTU)							13.5					
DTW during Purge (ft)		18.6			17.5				16.03			17.9
Maximum Draw down (ft)	18.08'			10.34'			7.79					
DTW & Time	13.09 @ 4:23			17.5 @ 4:00						14.03 @ 4:55		
Prior to Sampling:												
Date	12/20/16			12/20/16			12/20/16			12/20/16		
Depth to Water Before Sampling: (ft)	4.75			14.60			8.54			3.39		
Time	8:46			2:22			3:24			12:30		
Sampling Data:												
Sample Start Time	8:50			2:25			3:26			12:35		
Sample Method:	Bailer			Bailer			Bailer			Bailer		
Field Observations:												
Sheen:												
Odor:												
Recharge Rate:	Very poor			Very poor			Fair			Very poor		
Comment:	Sampled within 24 hrs			Sampled within 24 hrs						Sampled within 24 hrs		

Well Sampling Form - Volume average purge
Purge data not to be used for stability

Site Name:	North Brunswick Gulf												
Address:	1696 Georges Road Rt 130												
Weather:	32 - 35												
Sampled By:	FJ												
Well #:	RW 1												
Well Diameter: (inches)	6"												
Conversion Factor:	1.4688												
Total Depth of Well TOC: (ft)	15												
Depth to Screen TOC: (ft)	5												
Date:	12/21/16												
PRE PURGE DATA:													
Depth to Water: (feet)	7.23												
Depth to Product: (ft)	-												
Feet of Water in Well: (ft)	7.77												
Volume of Water in Well: (gallons)	11.4												
3 Well Volumes: (gallons)	34.2												
Purge Data:													
Purge Method:	Centrifugal												
Time Purge Began:	8:39												
Time Purge Ended:	9:26												
Purge Rate: (gpm)	0.74												
Total Volume Purged: (gallons)	35												
Gallons Purged	6	20	35										
Temperature: (degrees C)	14.8	14.3	14.5										
pH:	6..25	6.35	6.33										
Conductivity: (uS)	1280	1348	1358										
ORP (mv)	134	111	1006										
Dissolved Oxygen: (ppm)	0.29	0.20	0.14										
Turbidity (NTU)		0.14	0										
DTW during Purge (ft)			7.25										
Maximum Draw down (ft)	0.02												
DTW & Time													
Prior to Sampling:													
Depth to Water Before Sampling: (ft)	7.24												
Time	9:28												
Sampling Data:													
Sample Start Time	9:30												
Sample Method:	Bailer												
Field Observations:													
Sheen:													
Odor:	Yes												
Recharge Rate:	Good												
Comment:													

WELL SAMPLING FORM

Purge Data Temporary Wells					
Site Name:	NBG				
Address:	1696 Georges Rd/RT 130 North Brunswick, NJ				
Weather:		35	35	65	65
Sampled By:	FJ & EB	FJ & EB	FJ & EB	FJ & EB	FJ & EB
Well #:	**P 6**	**P47**	**P48**	**P97**	**P98**
Well Diameter: (inches)	1"	1"	1"	1"	1"
Conversion Factor:	0.041	0.041	0.041	0.041	0.041
Total Depth of Well: (ft) BG	20	14.86	17.64	13.6	13.35
Depth to Screen: (ft) BG	5	4.86	2.64	3.6	3.35
PRE PURGE DATA:					
Date:	4/27/2017	10/4/17	10/4/17	2/21/18	2/21/18
Depth to Water BG: (feet) & Time	2.8' (2:19)	12.31 (11:28)	7.68 (11:30)	3.24 (11:00)	3.27 (10:30)
Depth to Water: BG (feet) & Time					
Depth to Water: BG (feet) & Time					
Depth to Water: BG (feet) & Time					
Feet of Water in Well: (ft)	17.2	3.62	9.96	10.36	10.08
Volume of Water in Well: (gallons)	0.7	0.05	0.14	0.15	0.14
3 Well Volumes: (gallons)	2.1	0.15	0.42	0.44	0.42
Purge Data:					
Purge Method:	peristaltic	peristaltic	peristaltic	peristaltic	peristaltic
Time Purge Began:	2:22	12:26	11:41	11:13	10:33
Time Purge Ended:	3:00	12:35	12:18	11:54	10:48
Purge Rate: (gpm)	0.14	0.05	0.14	0.12	0.1
Total Volume Purged: (gallons)	5.5	0.5	5	5	1.5
Depth to Water After Purging: BG (ft)	8.8'	14.64	7.69	4.42	3.29
Prior to Sampling:					
Depth to Water Before Sampling: (ft)	4.5'	14.64	7.65	3.17	3.24
Time	3:27	12:53	12:44	1:48	11:28
Sampling Data:					
Sample Time	3:35		12:45	11:50	11:30
Sample Method:	Bailer		Bailer	Bailer	Bailer
Field Observations:					
Color:				slightly cloudy	clear
Sheen:			none	none	none
Odor:			none	none	none
Comment:		not enough water to sample			

Table 4: Purge Data

Site Name:	North Brunswick Gulf											
Address:	1696 Georges Road Rt 130											
Weather:	75-80											
Sampled By:	FJ & EB on 10/3/18 FJ on 10/4/18											
Well #:	MW 17			MW 18			MW 19			MW 19 after sampling		
Well Diameter: (inches)	2"			2"			2"					
Conversion Factor:	0.1632			0.1632			0.1632					
Total Depth of Well TOC: (ft)	13.2			20.08			20.4					
Depth to Screen TOC: (ft)	3.2			5.08			5.4					
Date:	10/3/18			10/3/18			10/3/18			10/4/18		
PRE PURGE DATA:												
Depth to Water: (feet)	7.04			4.82			5.96					
Depth to Product: (ft)	-			-			-					
Feet of Water in Well: (ft)	7.96			15.26			14.44					
Volume of Water in Well: (gallons)	1.3			2.5			2.4					
3 Well Volumes: (gallons)	3.9			7.5			7.2					
Purge Data:												
Purge Method:	centrifugal			centrifugal			centrifugal					
Time Purge Began:	10:06			9:20			11:37					
Time Purge Ended:	10:38			9:42			12:11					
Purge Rate: (gpm)	0.19			0.36			0.23					
Total Volume Purged: (gallons)	6			8			8					
Gallons Purged	1	3	5	1	4.5	8	1	4.5	7.5			
Temperature: (degrees C)	23.1	23.2	23.3	20.2	21.1	20.0	17.6	19.0	18.3	18.3		
pH:	6.70	6.47	6.34	5.95	6.30	6.44	6.29	6.23	6.30	5.95		
Conductivity: (uS)	941	993	1245	336	442	332	478	487	485	314		
ORP (mv)	113	123	128	-11	-66	-73	-59	-49	-66	50		
Dissolved Oxygen: (ppm)	3.76	3.73	3.73	0.19	0.19	0.23	0.18	0.26	0.19	0.69		
Turbidity (NTU)	199	60	32	2.49	1.40	2.55	288	384	330	123		
DTW during Purge (ft)			7.11			12.55			18.5			
Maximum Draw down (ft)	0.07			7.73			12.54					
DTW & Time							11.7' @3:13					
Prior to Sampling:												
Date	10/3/18			10/3/18			10/4/18					
Depth to Water Before Sampling: (ft)	7.09			4.49 higher than static			6.87					
Time	10:49			12:30			10:26					
Sampling Data:												
Sample Start Time	10:50			12:31			10:30					
Sample Method:	Bailer			Bailer			Bailer					
Field Observations:												
Turbidity or Color	Very cloudy			Clear			Cloudy grey					
Sheen:							discontinuous					
Odor:							Yes					
Recharge Rate:	good			Fair			Poor					
Comment:	MW 19 sampled within 24 hours											

Purge Data

Site Name:	North Brunswick Gulf											
Address:	1696 Georges Road Rt 130											
Weather:												
Sampled By:	FJ											
Well #:				MW 18								
Well Diameter: (inches)				2"								
Conversion Factor:				0.1632								
Total Depth of Well TOC: (ft)				20.08								
Depth to Screen TOC: (ft)				5.08								
Date:				11/15/18								
PRE PURGE DATA:												
Depth to Water: (feet)				4.09								
Depth to Product: (ft)				-								
Feet of Water in Well: (ft)				15.99								
Volume of Water in Well: (gallons)				2.6								
3 Well Volumes: (gallons)				7.8								
Purge Data:												
Purge Method:				centrifugal								
Time Purge Began:				8:29								
Time Purge Ended:				8:58								
Purge Rate: (gpm)				0.27								
Total Volume Purged: (gallons)				8								
Gallons Purged				1	5	8						
Temperature: (degrees C)				17.4	17.4	17.2						
pH:				6.30	6.32	6.42						
Conductivity: (uS)				437	426	362						
ORP (mv)				-4	-30	-43						
Dissolved Oxygen: (ppm)				0.20	0.25	0.17						
Turbidity (NTU)				11.9	5.48	4.02						
DTW during Purge (ft)						12.03						
Maximum Draw down (ft)				7.94								
DTW & Time				4.13 @ 10:51								
Prior to Sampling:												
Date				11/15/18								
Depth to Water Before Sampling: (ft)				4.13								
Time				10:51								
Sampling Data:												
Sample Start Time				10:55								
Sample Method:				Bailer								
Field Observations:				Fairly clear								
Turbidity or Color												
Sheen:												
Odor:				sewage								
Recharge Rate:				fair								
Comment:	Sewage odor in purge water											

Purge Data

Site Name:	North Brunswick Gulf			
Address:	1696 Georges Road Rt 130			
Weather:				
Sampled By:	FJ			
Well #:	MW 17	MW 18	MW 19	MW 20
Well Diameter: (inches)	2"	2"	2"	2"
Conversion Factor:	0.1632	0.1632	0.1632	0.1632
Total Depth of Well TOC: (ft)	13.2	20.08	20.4	19
Depth to Screen TOC: (ft)	3.2	5.08	5.4	4
Date:				1/17/19
PRE PURGE DATA:				
Depth to Water: (feet)				3.20
Depth to Product: (ft)				-
Feet of Water in Well: (ft)				15.80
Volume of Water in Well: (gallons)				2.58
3 Well Volumes: (gallons)				7.7
Purge Data:				
Purge Method:				centrifugal
Time Purge Began:				9:29
Time Purge Ended:				10:12
Purge Rate: (gpm)				0.18
Total Volume Purged: (gallons)				8
Gallons Purged				2 / 5 / 8
Temperature: (degrees C)				12.4 / 12.6 / 13.8
pH:				4.33 / 4.72 / 4.73
Conductivity: (uS)				614 / 701 / 628
ORP (mv)				250 / 221 / 212
Dissolved Oxygen: (ppm)				0.18 / 0.20 / 0.16
Turbidity (NTU)				49.1 / 13.2 / 7.62
DTW during Purge (ft)				12.32
Maximum Draw down (ft)				9.12
DTW & Time				10.82 @ 11:12
Prior to Sampling:				
Date				1/18/19
Depth to Water Before Sampling: (ft)				3.30
Time				9:25
Sampling Data:				
Sample Start Time				9:35
Sample Method:				Bailer
Field Observations:				
Turbidity or Color				Fairly clear at first then cloudy
Sheen:				
Odor:				Sewage odor
Recharge Rate:				
Comment: Sample within 24 hours of purge.	Sewage odor in purge & sample water; DTW after collecting samples was 6.70'			

Form 9.4

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: S. Burns Gulf Field Rep A. Rem Water level Meter Slope II PID/FID READINGS (ppm):

WELL ID: MW-1 Field Instrument ID YSI 556 (027) Lantte 2020 (005) Screening interval (ft)

TOTAL DEPTH: 20.1 (mva) Well Diameter (in.) 4" Well factor (gal/ft) Pump Intake (feet) ~18 ft

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) ~~(gal)~~	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (L/m)	Notes
5-22-19	3.56				1250	0-1 (L)	—	—	—	—	—	—	—	
					1258	0.0	17.2	6.65	+104	1283	1.91	14.	0.120	plus field DUP
	3.60				1302	0.5	16.5	6.68	+96	1267	1.29	—	"	
					1306	1.0	16.4	6.68	+95	1263	1.01	10.1	"	
					1310	1.5	16.4	6.68	+93	1261	0.86	—	"	
	3.60				1314	2.0	16.5	6.67	+91	1260	0.73	8.2	"	
					1318	2.5	16.5	6.66	+89	1260	0.65	-	"	
					1322	3.0	16.4	6.66	+87	1259	0.57	7.0	"	
	3.60				1326	3.5	16.5	6.66	+85	1259	0.55	6.0	"	
					1330	4.0	16.4	6.66	+83	1262	0.53	6.5	"	
					1334	4.5	16.3	6.65	+83	1259	0.51	6.3	"	
				1340										Clear odor

WELL CONDITION:

Lab Analysis: VO/BN/metals

weather: Sunny 80s & windy

Signature

Form 8.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: So. Bruns Gulf Field Rep A. Plesa Water level Meter Slope II PID/FID READINGS (ppm):
WELL ID: MW-2 Field Instrument ID YSI 556 (027) Lamotte 2020 (005)
TOTAL DEPTH: 20.3 Well Diameter (in.) 4" Screening interval (ft) Pump Intake (feet) ~18
PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal. = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	VoL Purged (L) (~~gal~~)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-22-19	3.39				0948	0-1(L)	-	-	-	-	-	-	-	
					0958	0.0	18.3	6.72	+99	776	2.94	16.0	0.100	
					1003	0.5	18.2	6.60	+95	777	2.40	-	"	
	3.82				1008	1.0	18.1	6.54	+93	771	2.06	6.5	"	
					1012	1.5	18.3	6.46	+90	771	1.66	-	"	
					1016	2.0	18.2	6.41	+89	770	1.46	5.2	"	
					1020	2.5	18.2	6.35	+87	767	1.22	-	"	
	4.25				1024	3.0	18.1	6.30	+86	765	1.05	4.4	"	
					1029	3.4	18.2	6.27	+85	763	0.97	-	0.080	Slow pump
					1034	3.8	18.5	6.24	+84	761	0.91	4.6	"	
	4.38				1039	4.2	18.8	6.21	+82	759	0.89	4.5	"	
					1044	4.6	18.9	6.19	+81	757	0.88	4.3	-	Clear No odor
				1050										

WELL CONDITION: Lab Analysis: VO/BN/ Metals

weather: Sunny 80°F Lt wind

Signature A. Plesa

Form 9.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: So Bruns GwH Field Rep A. Plews Water level Meter Slope II PID/FID READINGS (ppm):
Field Instrument ID YSI 556 (027)
WELL ID: MW-3 Well Diameter (in.) 6" Screening interval (ft) Pump Intake (feet) ~18 ft
TOTAL DEPTH: 20.25 Well factor (gal/ft)
PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: ~ Key# (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) ~~(gal)~~	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (~~gpm~~)	Notes
5-21-19	1.29				1538	0-1 (L)	—	—	—	—	—	—	—	
					1548	0.0	18.9	5.84	+145	1001	1.91	3.5	0.100	
					1553	0.5	18.9	5.83	+144	1013	1.35	—	"	
	1.93				1558	1.0	18.8	5.81	+145	1024	0.99	2.7	"	
					1603	1.5	18.9	5.79	+147	1028	0.72	—	"	
					1608	2.0	19.0	5.79	+148	1025	0.64	3.2	"	
	2.45				1613	2.5	19.0	5.79	+148	1027	0.62	2.9	"	
					1618	3.0	18.9	5.78	+149	1023	0.57	3.4	0.08	slow pump
	2.70				1623	3.4	19.1	5.78	+150	1025	0.56	4.0	"	
					1628	3.8	19.2	5.78	+150	1024	0.55	3.9	"	Clear No odor
				1630										

WELL CONDITION:

Lab Analysis: VOC / BN / Metals

weather : Sunny 80°F Lt wind

Signature

Form S.41 TERRA NOVA TECHNICAL CORP Revised: April 2013

SITE NAME: NB GULF Field Rep M Pleva Water level Meter slope ↓ PID/FID READINGS (ppm):
WELL ID: MW-4 Field Instrument ID TSI556(AI) lamotte202d(006)
TOTAL DEPTH: 21.08 Well Diameter (in.) 2 Screening interval (ft) Pump Intake (feet) ~19.0
PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) ~~(gal)~~	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-21-19	1.53				1402	0-1(L)								
	1.79				1412	0	19.7	5.82	+162	729	3.82	25	0.100	
	1.88				1417	0.5	18.9	5.90	+147	744	1.12	15		
	1.96				1422	1.0	18.7	5.97	+143	745	1.01	9.8		
	2.04				1427	1.5	18.5	6.01	+137	749	0.88	5.6		
	2.12				1432	2.0	18.2	6.03	+134	749	0.82	4.4		
	2.19				1437	2.5	18.0	6.05	+131	749	0.72	3.6		
	2.26				1442	3.0	17.9	6.08	+128	747	0.66	2.9		
	2.31				1447	3.5	17.8	6.10	+125	746	0.65	2.5		
	2.36				1452	4.0	17.7	6.13	+123	746	0.62	2.5		
	2.40				1457	4.5	17.6	6.16	+121	745	0.61	2.4	↓	
				1505		sump								clear no odor

WELL CONDITION:

Lab Analysis: VO, BN, metals

weather: sunny 60s 10-20 mph

Signature

Form 9.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: SB Gulf
Field Rep: M Pleva
Water level Meter: Slope IV
PID/FID READINGS (ppm):
Field Instrument ID: YSI556 (AI) Lamotte 2020 (005)
WELL ID: MW-5
Well Diameter (in.): 2
Screening interval (ft):
TOTAL DEPTH: 19.43
Well factor (gal/ft): N/A
Pump Intake (feet): 17.5
PURGE METHOD: bp
SAMPLE METHOD: bp
Elev TOC:
Key#
(1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) (gal)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-22-19	3.70				1119	0-1(L)								
	3.73				1129	0	18.8	5.95	-14	1152	3.96	96	0.100	
					1134	0.5	18.2	5.72	-9	1150	1.68	72		
	3.72				1139	1.0	17.9	5.75	-19	1151	0.89	62		
					1144	1.5	17.7	5.80	-28	1151	0.65	52		
					1149	2.0	17.7	5.85	-37	1148	0.56	40		
	3.72				1154	2.5	17.8	5.86	-40	1147	0.49	32		
					1159	3.0	17.8	5.87	-43	1147	0.48	19		
					1204	3.5	17.9	5.88	-47	1147	0.55	17	↓	
					1209	4.0	18.0	5.88	-48	1145	0.58	18		
				1210										Clear No odor

WELL CONDITION:

Lab Analysis: VO, BN, metals

weather: sunny 60s 5-10 mph

Signature

Form E 41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: So Bronx Gulf Field Rep: A. Pena Water level Meter: Slope II PID/FID READINGS (ppm):

WELL ID: MW-6 Field Instrument ID: YSI 556 (027) Lamotte 2020 (005)

TOTAL DEPTH: 19.5 Well Diameter (in.): 2" Screening interval (ft): Pump Intake (feet): ~17.5 ft

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) (gal)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-22-19	3.56				1131	0-1(2)	—	—	—	—	—	—	—	
					1139	0.0	16.6	6.27	+112	2854	2.53	3.2	0.120	
	3.60				1143	0.5	16.5	6.29	+109	2850	2.21	—	"	
					1147	1.0	16.4	6.32	+107	2847	1.80	3.4	"	
					1151	1.5	16.3	6.36	+104	2841	1.48	—	"	
	3.67				1155	2.0	16.4	6.40	+102	2837	1.23	3.4	"	
					1159	2.5	16.4	6.42	+101	2835	1.15	3.7	"	
					1203	3.0	16.4	6.43	+100	2836	1.07	3.5	"	
	3.67				1207	3.5	16.3	6.44	+99	2836	0.98	2.9	"	
					1211	4.0	16.2	6.46	+98	2847	0.87	2.8	"	
					1215	4.5	16.2	6.47	+97	2869	0.81	2.7	"	
					1219	5.0	16.1	6.48	+95	2901	0.79	2.8	"	
					1223	5.5	16.1	6.49	+93	2927	0.76	2.7	"	Clear Odor
				1225										

WELL CONDITION:

Lab Analysis: VO / BN / metals

weather: Sunny 80's lt wind

Signature: A. Pena

Form 9.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: NB Gulf Field Rep M Pleva Water level Meter Slope T PID/FID READINGS (ppm):

WELL ID: MW-7 Field Instrument ID YSI556(AI) Lamotte2020005

TOTAL DEPTH: 19.37 Well Diameter (in.) 2 Screening interval (ft) _____ Pump Intake (feet) ~17

PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: _____ Key# _____ (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol Purged (L) ~~(gal)~~	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-22-19	3.29				0832	0-1(L)								
	3.68				0842	0	14.3	6.14	+27	4830	5.91	406	0.100	
					0847	0.5	14.2	6.01	+33	4862	2.19	413		
	3.73				0852	1.0	14.1	6.01	+51	4847	1.30	389		
					0857	1.5	14.1	6.03	+59	4835	0.92	379		
	3.75				0902	2.0	14.1	6.05	+65	4828	0.70	234		
					0907	2.5	13.9	6.06	+69	4817	0.54	125		
					0912	3.0	13.8	6.07	+72	4806	0.44	118		
	3.74				0917	3.5	13.8	6.07	+73	4799	0.47	35		
					0922	4.0	13.8	6.08	+74	4794	0.46	35		
	3.75				0927	4.5	13.9	6.09	+74	4795	0.46	38	↓	
				0930		Sump								cloudy no odor

WELL CONDITION: _____ Lab Analysis: VO, BN, Metals

weather: pt sunny 50s 5-10 mph

10.7/10.7

Signature

Form 9.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: No. Bruns Gulf Field Rep M Pleva Water level Meter slope J PID/FID READINGS (ppm):

WELL ID: MW-8 Field Instrument ID YSI556(AI) Lamotte 2020(006)

TOTAL DEPTH: 18.2 Well Diameter (in.) 2 Screening interval (ft) Pump Intake (feet) ~16

PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol Purged (L) (gal)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-21-19	2.84				0847	0-1(L)								
	2.98				0857	0	12.8	5.05	+83	291	2.11	125	0.100	cloudy
	3.09				0902	0.5	12.7	4.91	+105	251	0.95	72		
	3.23				0907	1.0	12.6	5.18	+96	248	0.83	44		
	3.36				0912	1.5	12.6	5.33	+89	244	0.70	27		
	3.45				0917	2.0	12.6	5.46	+84	242	0.60	20		
	3.52				0922	2.5	12.6	5.53	+83	241	0.57	16		
	3.59				0927	3.0	12.6	5.58	+78	241	0.53	12		
	3.65				0932	3.5	12.6	5.60	+78	241	0.54	12		
	3.70				0936	4.0	12.6	5.63	+76	241	0.52	13	↓	
				0940										clear no odor

WELL CONDITION:

Lab Analysis: VOA/BN/Metals

weather: cloudy 50s 10-20 mph

10.7/10.6

Signature

Form 5.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: NB Gulf Field Rep M Pleus Water level Meter slope IV PID/FID READINGS (ppm):

WELL ID: MW-9 Field Instrument ID YSI556(AI) Lamotte2020(006)

TOTAL DEPTH: 18.82 Well Diameter (in.) 2 Screening interval (ft) Pump Intake (feet) ~17

PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol Purged (L) (gal)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-21-19	1.02				1239	0-1(L)								
	1.31				1249	0	17.1	3.93	+253	175	2.29	109	0.100	
	1.58				1254	0.5	16.8	4.21	+239	175	0.97	90		
	1.73				1259	1.0	17.0	4.66	+222	175	0.85	79		
	1.89				1304	1.5	17.1	4.91	+211	174	0.74	65		
	2.07				1309	2.0	17.1	5.06	+200	172	0.60	54		
	2.29				1314	2.5	17.2	5.15	+194	173	0.58	42		
	2.36				1319	3.0	17.1	5.22	+191	172	0.56	34		
	2.40				1324	3.5	17.1	5.24	+192	173	0.57	31		
	2.43				1329	4.0	17.1	5.25	+192	173	0.55	31		
	2.46				1334	4.5	17.0	5.25	+191	173	0.54	31		Cloudy No odor
				1335										

WELL CONDITION:

Lab Analysis: VOC, BN, Metals

weather: sunny 60s 10-20 mph

Signature

Form 9.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: NB Gulf Field Rep M Pleva Water level Meter Slope V PID/FID READINGS (ppm):

WELL ID: MW-10 Field Instrument ID YSI 556 (AL) Lamotte 2020 (006)

TOTAL DEPTH: 19.32 Well Diameter (in.) 2 Screening interval (ft) Pump Intake (feet) ~ 17

PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) (gal)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-21-19	1.86				1004	0-1(L)								
	2.07				1014	0	13.6	5.69	+69	196	3.42	35	0.100	
	2.21				1019	0.5	13.4	4.61	+124	191	2.11	27		
	2.31				1024	1.0	13.3	4.52	+128	194	1.64	24		
	2.39				1029	1.5	13.2	4.87	+111	195	1.22	22		
	2.49				1034	2.0	13.1	5.03	+102	193	0.99	21		
	2.58				1039	2.5	13.1	5.08	+101	192	0.77	20		
	2.64				1044	3.0	13.1	5.12	+99	191	0.74	19		
	2.69				1049	3.5	13.2	5.16	+96	191	0.69	19		
	2.72				1054	4.0	13.2	5.19	+95	191	0.69	19	↓	
				1055		sump								clear no odor

WELL CONDITION:

Lab Analysis: VO, BN, Metals

weather: cloudy SOS 10-20 mph

Signature

Form S.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: N Burns Gulf Field Rep A. Plesa Water level Meter Slope II PID/FID READINGS (ppm):

WELL ID: mw-11 Field Instrument ID YSI 556 (02) / Lustre 2020 (005)

TOTAL DEPTH: 19.1 Well Diameter (in.) 4" Screening interval (ft) _____ Pump Intake (feet) ~17ft

PURGE METHOD: Bp SAMPLE METHOD: Bp Elev TOC: _____ Key# _____ (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol Purged (L) (gal)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (lpm)	Notes
5-24-19	1.46				1210	0-1(L)	—	—	—	—	—	—	—	
					1220	0.0	12.5	5.76	+135	525	4.03	3.3	0.100	
					1225	0.5	12.3	5.84	+115	523	2.54	—	"	
	1.75				1230	1.0	12.1	5.89	+109	523	1.78	2.8	"	
					1235	1.5	12.1	5.94	+96	522	1.37	—	"	
					1240	2.0	12.0	5.95	+93	521	1.08	2.7	"	
	1.96				1245	2.5	12.0	5.96	+86	520	0.87	—	"	Slow pump
					1250	2.9	12.2	5.98	+84	520	0.80	2.7	0.08	
					1255	3.3	12.3	6.02	+80	521	0.72	2.1	"	
	2.18				1300	3.7	12.3	6.01	+78	521	0.71	2.2	"	
					1305	4.1	12.3	6.01	+78	519	0.68	2.2	"	Clear Hoods
				1310										

WELL CONDITION: _____

Lab Analysis: VO/Metals/BN

weather: Sunny 70s and 5

Signature _____

Form S 41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: N. Burns Gulf Field Rep M. Rivera Water level Meter slope ↓ PID/FID READINGS (ppm):

WELL ID: mw-12 Field Instrument ID YSI556(AL) Lamotte 2020(006)

TOTAL DEPTH: 19.1 Well Diameter (in.) 4" Screening interval (ft) Pump Intake (feet) ~ 17 ft

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal. = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol Purged (L) ~~(gal)~~	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (lpm)	Notes
5-21-19	1.80				1119	0-1(L)								
	1.98				1129	0	15.8	4.74	+71	219	2.79	16	0.100	
	2.11				1134	0.5	15.8	5.04	+50	218	1.46	11		
	2.16				1139	1.0	15.8	5.31	+32	218	1.04	8.1		
	2.20				1144	1.5	15.7	5.51	+18	218	0.79	8.1		
	2.22				1149	2.0	15.7	5.61	+11	218	0.70	7.9		
	2.26				1154	2.5	15.6	5.73	-1	218	0.64	7.8		
	2.29				1159	3.0	15.6	5.82	-4	218	0.62	7.7		
	2.31				1204	3.5	15.5	5.83	-5	218	0.58	7.7		
	2.32				1209	4.0	15.5	5.84	-6	218	0.56	7.8	↓	Clear Hoodoo
				1210		sump								

WELL CONDITION:

Lab Analysis: VO, BN, metals

weather: sunny 60s 10-20 mph

Signature

Form S 41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: N. Bruns Gulf Field Rep A. Plesa Water level Meter Slope II PID/FID READINGS (ppm):

WELL ID: MW-13 Field Instrument ID YSI 556 (027) Last Cal 4/1/2020 (005

TOTAL DEPTH: 19.1 Well Diameter (in.) 4" Screening interval (ft) Pump Intake (feet) ~17'

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) (~~gal~~)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (~~gpm~~)	Notes
5-21-19	1.68				1401	0-1(L)	—	—	—	—	—	—	—	
					1411	0.0	13.3	6.06	+112	333	1.81	9.8	0.08	
	1.97				1416	0.4	13.6	6.07	+109	333	1.60	—	"	
					1421	0.8	13.6	6.09	+107	334	1.46	10.2	"	
					1426	1.2	13.7	6.09	+107	334	1.26	8.1	"	
					1431	1.6	13.8	6.09	+106	334	1.14	8.7	"	
	2.16				1436	2.0	13.8	6.08	+106	334	0.99	7.8	"	
					1441	2.4	13.9	6.07	+107	334	0.91	7.1	"	
					1446	2.8	14.0	6.06	+107	334	0.81	6.7	"	
	2.31				1451	3.2	14.0	6.07	+107	334	0.77	6.7	"	
					1456	3.6	14.0	6.07	+106	334	0.75	6.5	"	Clear No odor
				1500										

WELL CONDITION:

Lab Analysis: VO/Metals/BN

weather: Sunny 70's wind 5 mph

FR @ 1440

Signature

Form 5.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: NB Gulf Field Rep M Pleva Water level Meter slope J PID/FID READINGS (ppm):

WELL ID: MW-14 Field Instrument ID YSI556(AI) Lamotte2020(005)

TOTAL DEPTH: 18.54 Well Diameter (in.) 2 Screening interval (ft) _____ Pump Intake (feet) 16.5

PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: _____ Key# _____ (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) (gal)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-22-19	2.41				1411	0-1(L)								
	2.64				1421	0	15.5	3.78	+252	4134	2.12	34	0.100	
	2.79				1426	0.5	15.3	3.70	+261	4151	1.71	34		
	2.92				1431	1.0	15.1	3.64	+277	4206	0.79	14		
	3.06				1436	1.5	15.0	3.64	+279	4217	0.73	10		
	3.18				1441	2.0	15.1	3.67	+280	4223	0.69	8.9		
	3.29				1446	2.5	15.1	3.67	+282	4230	0.67	6.3		
	3.38				1451	3.0	15.2	3.68	+283	4235	0.64	6.2		
	3.45				1456	3.5	15.3	3.69	+285	4241	0.67	6.1		
	3.51				1501	4.0	15.3	3.72	+282	4248	0.65	6.1	↓	
				1505										clear no odor

WELL CONDITION: _____ Lab Analysis: VOC BN metals

weather: sunny 60s 5-10 mph

Signature _____

Form 5.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: NB Gulf Field Rep M Pleve Water level Meter slope J PID/FID READINGS (ppm):

WELL ID: MW-15 Field Instrument ID YSI556(AI) Lamotte 1020(006)

TOTAL DEPTH: 17.53 Well Diameter (in.) 4 Screening interval (ft) _____ Pump Intake (feet) 15

PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: _____ Key# _____ (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) ~~(gal)~~	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-22-19	2.83				1238	0-1(L)								
	2.98				1248	0	16.5	5.24	+115	849	2.83	72	0.100	
	3.09				1253	0.5	16.3	5.56	+93	864	0.72	53		
	3.15				1258	1.0	16.0	5.69	+86	865	0.58	54		
					1303	1.5	15.8	5.71	+86	865	0.51	52		
					1308	2.0	15.6	5.69	+87	859	0.50	52		
	3.16				1313	2.5	15.5	5.68	+88	853	0.49	53		
					1318	3.0	15.5	5.68	+88	851	0.48	54		
					1323	3.5	15.5	5.69	+87	849	0.47	53		
	3.16				1328	4.0	15.4	5.70	+86	848	0.49	56	↓	
				1330										cloudy no odor

WELL CONDITION: _____ Lab Analysis: VOA/BN/Metals

weather: sunny 60s 5-10 mph

Signature _____

Form 9.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: NB Gulf
WELL ID: MW-16
TOTAL DEPTH: 18.65
PURGE METHOD: bp

Field Rep: M Pleva
Field Instrument ID: YSI 556 AI Lmotte 2020 (606)
Well Diameter (in.): 4
Well factor (gal/ft): N/A
SAMPLE METHOD: bp

Water level Meter: Slope V
PID/FID READINGS (ppm):
Screening interval (ft):
Pump Intake (feet): 16.5
Elev TOC:
Key#
(1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol Purged (L) (gal)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-21-19	2.19				1529	0-1(L)								
	2.30				1539	0	17.4	4.67	+219	321	3.24	12	0.100	FB poured from BP @ 1440
	2.35				1544	0.5	17.1	4.80	+207	318	2.78	16		
	2.38				1549	1.0	16.9	4.97	+195	316	2.63	18		
	2.40				1554	2.0	16.9	5.23	+178	313	2.49	19		
	2.43				1559	2.5	16.8	5.42	+165	312	2.39	18		
	2.47				1604	3.0	16.8	5.61	+155	311	2.37	16		
	2.51				1609	3.5	16.8	5.65	+152	311	2.35	14		
	2.54				1614	4.0	16.8	5.68	+150	311	2.32	14		
	2.57				1619	4.5	16.9	5.71	+148	311	2.29	13		
				1620		sump								clear no odor

WELL CONDITION:

Lab Analysis: VO, BN, Metals

weather: sunny 60s 10-20 mph

Signature

Form 9.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: So. Bronx Gulf Field Rep A. Plevra Water level Meter Slope II PID/FID READINGS (ppm):

WELL ID: MW-17 Field Instrument ID YSI 556 (027) Landtec 2020 (005)

TOTAL DEPTH: 13.2 Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) ~ 11 ft

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: _____ Key# _____ (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol Purged (L)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-22-19	3.36				1430	0-1 (L)	—	—	—	—	—	—	—	
					1438	0.0	16.7	6.24	+118	3722	1.85	21	0.125	
					1442	0.5	16.5	6.21	+119	3147	1.46	—	"	
	3.39				1446	1.0	16.5	6.22	+119	2979	1.29	25	"	
					1450	1.5	16.4	6.24	+120	2658	1.25	—	"	
	3.39				1454	2.0	16.3	6.24	+121	2404	1.23	29	"	
					1458	2.5	16.2	6.24	+123	2283	1.22	—	"	
					1502	3.0	16.3	6.23	+124	2183	1.24	27	"	
	3.39				1506	3.5	16.3	6.24	+125	2095	1.28	27	"	
					1510	4.0	16.3	6.24	+126	1948	1.31	25	"	
					1514	4.5	16.2	6.23	+128	1940	1.34	26	"	
					1518	5.0	16.2	6.22	+129	1927	1.35	27	"	Cloudy No odor
				1520										

WELL CONDITION: _____

Lab Analysis: VOA / BN / Metals

weather: Sunny 80's Lt wind

Signature _____

Form 9.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: No Bronx Gulf Field Rep A. Plesa Water level Meter Slope II PID/FID READINGS (ppm):

WELL ID: MW-18 Field Instrument ID YSI556 (027) LaMotte 2020 (005)

TOTAL DEPTH: 20.1 Well Diameter (in.) 2" Screening interval (ft) _____ Pump Intake (feet) ~ 18'

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: _____ Key# _____ (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) ~~(gal)~~	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (Lpm)	Notes
5-21-19	3.37				1040	0-1(L)	—	—	—	—	—	—	—	
					1050	0.0	15.1	5.96	+152	647	1.86	3.7	0.100	
	4.03				1055	0.5	15.2	6.11	+137	614	1.60	—	"	
					1100	1.0	15.4	6.19	+129	597	1.14	3.1	"	
					1105	1.4	15.8	6.29	+122	570	0.86	—	0.08	slow pump
	4.03				1110	1.8	16.0	6.33	+120	558	0.84	3.4	"	
					1115	2.2	16.2	6.36	+118	541	0.78	—	"	
					1120	2.6	16.3	6.37	+116	526	0.74	2.7	"	
	4.02				1125	3.0	16.3	6.39	+115	518	0.73	2.5		
				1135	1130	4.0	16.4	6.40	+113	513	0.72	2.9		

WELL CONDITION: _____ Lab Analysis: VO/BN/Metals

weather: Sunny 70's wind 0-5 mph

Signature A. Plesa

Form 9.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: NB Gulf Field Rep M Pleva Water level Meter Slope IV PID/FID READINGS (ppm):

WELL ID: MW-19 Field Instrument ID YSI556(AI) Lamotte 2020(006)

TOTAL DEPTH: 20.4 Well Diameter (in.) 2 Screening interval (ft) Pump Intake (feet) 18

PURGE METHOD: bp SAMPLE METHOD: bp Elev TOC: Key# (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) (gal)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-22-19	2.91				0957	0-1(L)								
	3.04				1007	0	14.3	6.31	-33	798	1.54	94	0.100	
	3.07				1012	0.5	14.0	6.23	-31	723	1.04	61		
	3.09				1017	1.0	13.9	6.30	-38	698	0.85	44		
	3.11				1022	1.5	13.8	6.37	-44	686	0.67	39		
	3.11				1027	2.0	13.8	6.40	-45	681	0.61	34		
	3.11				1032	2.5	13.7	6.42	-46	677	0.59	31		
	3.11				1037	3.0	13.8	6.43	-50	675	0.55	26		
	3.11				1042	3.5	13.8	6.44	-50	675	0.54	27		
	3.11				1047	4.0	13.9	6.44	-51	674	0.53	28	V	
				1050		Sump								slt cloudy/odor slt sheen

WELL CONDITION:

Lab Analysis: VO, BN, metals

weather: Pt sunny 60s 5-10 mph

Signature

Form 9.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: N. Berris Golf Field Rep: A. Plew Water level Meter: Slope II PID/FID READINGS (ppm):

WELL ID: MW-20 Field Instrument ID: YSI 556 (02) Lamotte 2020 (005)

TOTAL DEPTH: 19.0 Well Diameter (in.): 2" Screening interval (ft): Pump Intake (feet): 17'

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal. = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) (gal)	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-21-19	3.67				0919	0-1(L)	—	—	—	—	—	—	—	
					0929	0.0	14.1	6.09	+176	1800	2.60	2.9	0.100	
	4.20				0934	0.5	14.1	5.81	+179	1800	1.70	—	"	
					0939	1.0	14.2	5.64	+180	1800	1.39	2.4	"	
					0944	1.4	14.3	5.46	+180	1798	1.20	—	0.08	Slow pump
	4.18				0949	1.8	14.4	5.41	+179	1800	1.13	1.9	"	
					0954	2.2	14.5	5.32	+178	1802	1.02	1.9	"	
	4.20				0959	2.6	14.5	5.30	+178	1801	1.00	2.0	"	
				1010	1004	3.0	14.6	5.25	+178	1802	0.98	2.0	"	Clear Noodor

WELL CONDITION:

Lab Analysis: VO / BN / Metals

0.77 / 0.95

weather: Sunny 70's wind 0-5

Signature

Form 9.41

TERRA NOVA TECHNICAL CORP

Revised: April 2013

SITE NAME: S. Bruns Gulf Field Rep Al Plum Water level Meter Slope II PID/FID READINGS (ppm):

WELL ID: RW-1 Field Instrument ID YSI 556 (027) Lamotte 2020 (005)

TOTAL DEPTH: 12.6 Well Diameter (in.) Screening interval (ft) Pump Intake (feet) ~ 10.5

PURGE METHOD: BP SAMPLE METHOD: BP Elev TOC: Key# (1 gal = 3.785 Liters)

DATE	DTW (ft)	Col. Ht (ft)	One Vol. (gal)	Sample Time	Purge Time	Vol. Purged (L) ~~(gal)~~	Temp°C	pH	Orp mv	Meas Cond um/cm	D.O. (ppm)	TURB NTU	Purge Rate (LPM)	Notes
5-22-19	3.08				0832	0-1 (L)	—	—	—	—	—	—	—	
					0840	0.0	14.5	6.89	+113	2104	0.95	3.5	0.125	+ MS/SD
	3.08				0844	0.5	14.5	6.85	+110	2139	0.72	2.1	"	
					0848	1.0	14.6	6.83	+106	2142	0.70	2.5	"	
					0852	1.5	14.8	6.83	+104	2139	0.68	2.4	"	
	3.08				0856	2.0	14.9	6.84	+102	2138	0.69	2.8	"	
					0900	2.5	15.0	6.85	+100	2130	0.67	2.5	"	
				0905									"	Odor, clear

WELL CONDITION:

Lab Analysis: VO/Metals/BN

weather: Sunny 70s wind 0-5 mph

0.53/0.95

Signature

Appendix F

Form B’s from 2/29/08 Survey
Form B's from 11/25/09 Survey
Form B's from 10/25/18 & 12/18/18 Survey

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-49750
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-1

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586436 East 500215

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.95

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

_____ March 17, 2008
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-49751
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-2

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586399 East 5001139

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.25

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

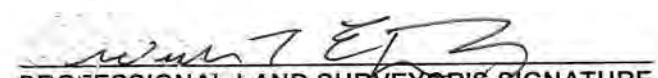
Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL



PROFESSIONAL LAND SURVEYOR'S SIGNATURE

March 17, 2008
DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-49752
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-3

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586331 East 500129

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 105.65

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

_____ March 17, 2008
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-49753
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-4

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586323 East 500156

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 107.42

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL



PROFESSIONAL LAND SURVEYOR'S SIGNATURE

March 17, 2008
DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054462
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-5

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586479 East 500256

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 110.27

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

_____ March 17, 2008
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054461
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-6

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586460 East 500192

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 110.02

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

_____ March 17, 2008
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054460
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-7

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586363 East 500232

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.83

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL



PROFESSIONAL LAND SURVEYOR'S SIGNATURE

March 17, 2008
DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054457
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-8

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586320 East 500222

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 107.70

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

_____ March 17, 2008
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054459
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-9

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586306 East 500157

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 105.81

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL



PROFESSIONAL LAND SURVEYOR'S SIGNATURE

March 17, 2008
DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054458
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-10

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586277 East 500192

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 106.02

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

_____ March 17, 2008
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION
Well Permit Number:
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): RW-1

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586386 East 500178

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.12

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

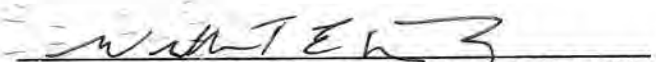
Significant observations and notes: _____

_____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL



PROFESSIONAL LAND SURVEYOR'S SIGNATURE

March 17, 2008
DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Thomas Csepes

Name of Facility: Residence next to North Brunswick Gulf Station

Location: 359 Washington Place North Brunswick, NJ.

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910654
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 11

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586362 East 500337

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 106.24

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Elevations based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

William T. Etzkorn

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

December 8, 2009
DATE

William T. Etzkorn, Jr. P.L.S. NJ Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Thomas Csepes

Name of Facility: Residence next to North Brunswick Gulf

Location: 359 Washington Place North Brunswick, NJ.

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910653
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 12

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586271 East 500249

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 106.33

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Elevations based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

William T. Etzkorn

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

December 8,2009
DATE

William T. Etzkorn, Jr. P.L.S. NJ Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Denice Luzak

Name of Facility: Redisnce by North Brunswick Gulf

Location: 368 Washington Place North Brunswick, NJ.

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910655
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 13

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586251 East 500129

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 105.79

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Elevation based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

William T. Etzkorn

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

December 8, 2009
DATE

William T. Etzkorn Jr. P.L.S. NJ Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Jacob Krauser

Name of Facility: Strip Mall next to North Brunswick Gulf

Location: 1674 Georges Road North Brunswick, New Jersey

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910659
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 14

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586430 East 500372

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 106.47

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Elevations based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

William T. Etzkorn

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

December 8, 2009
DATE

William T. Etzkorn, Jr. P.L.S. NJ Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910660
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 15

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586509 East 500293

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.49

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Elevation based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

William T. Etzkorn

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

December 8, 2009
DATE

William T. Etzkorn, Jr. P.L.S. NJ Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910661
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 16

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586377 East 500098

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 108.72

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Elevations based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

William T. Etzkorn

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

December 8, 2009
DATE

William T. Etzkorn, Jr. P.L.S. NJ Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **2800049750**
2. Site Well Number (As shown on application or plans): **MW-1**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 36.288 "** Longitude: West **74 ° 28 ' 15.351 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586435.94** East **500215.38**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **109.95**
   Elevation Top of Outer casing: **110.33** Elevation of ground: **110.34**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED MARCH 17, 2008
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **2800049751**
2. Site Well Number (As shown on application or plans): **MW-2**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 35.927 "** Longitude: West **74 ° 28 ' 16.339 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586399.30** East **500139.00**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **109.24**
   Elevation Top of Outer casing: **109.50** Elevation of ground: **109.49**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED MARCH 17, 2008
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 5560-NORTH BRUNSWICK GULF SERVICE STATION

List all AKAs: LAWRENCE FUEL LLC

Street Address: 1696 GEORGES ROAD (AKA ROUTE 130)

Municipality: NORTH BRUNSWICK TOWNSHIP (Township, Borough or City)

County: MIDDLESEX Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): SEE NOTES

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 ROUTE 130, LLC
2. Well Location (Street Address) 1696 GEORGES ROAD (AKA ROUTE 130)
3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): 2800049752
2. Site Well Number (As shown on application or plans): MW-3
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40 ° 26 ' 35.256 " Longitude: West 74 ° 28 ' 16.469 "
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 586331.46 East 500128.98
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 105.68
   Elevation Top of Outer casing: 106.47 Elevation of ground: 106.39
   Check one: ☐ NAVD 88 ☐ NGVD 29 ☒ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED MARCH 17, 2008
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date 10/25/18

Surveyor's Name: JAMES M. STEWART License Number: 24GS02610800

Firm Name: DENNIS W. SKLAR, INC. Certificate of Authorization #: 24GA28150900

Mailing Address 3020 GLENN AVENUE

City/Town: BENSALEM State PENNSYLVANIA Zip Code: 19020

Phone Number (215) 268-7988 Ext.: N/A Fax: (215) 268-7966

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **2800049753**
2. Site Well Number (As shown on application or plans): **MW-4**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 35.178 "** Longitude: West **74 ° 28 ' 16.122 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586323.56** East **500155.78**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **107.43**
   Elevation Top of Outer casing: **107.53** Elevation of ground: **106.86**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED MARCH 17, 2008
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **2800054462**
2. Site Well Number (As shown on application or plans): **MW-5**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 36.719 "** Longitude: West **74 ° 28 ' 14.831 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586479.48** East **500255.53**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **110.28**
   Elevation Top of Outer casing: **110.62** Elevation of ground: **110.58**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED MARCH 17, 2008
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **2800054461**
2. Site Well Number (As shown on application or plans): **MW-6**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 36.528 "** Longitude: West **74 ° 28 ' 15.657 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586460.17** East **500191.73**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **110.00**
   Elevation Top of Outer casing: **110.20** Elevation of ground: **110.10**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED MARCH 17, 2008
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **2800054460**
2. Site Well Number (As shown on application or plans): **MW-7**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 35.574 "** Longitude: West **74 ° 28 ' 15.136 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586363.69** East **500231.99**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **109.83**
   Elevation Top of Outer casing: **110.26** Elevation of ground: **110.16**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED MARCH 17, 2008
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **2800054457**
2. Site Well Number (As shown on application or plans): **MW-8**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 35.144 "** Longitude: West **74 ° 28 ' 15.268 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586320.12** East **500221.82**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **107.72**
   Elevation Top of Outer casing: **107.94** Elevation of ground: **107.82**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED MARCH 17, 2008
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **2800054459**
2. Site Well Number (As shown on application or plans): **MW-9**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 35.003 "** Longitude: West **74 ° 28 ' 16.105 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586305.89** East **500157.09**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **105.82**
   Elevation Top of Outer casing: **106.24** Elevation of ground: **106.01**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED MARCH 17, 2008
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **2800054458**
2. Site Well Number (As shown on application or plans): **MW-10**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 34.718 "** Longitude: West **74 ° 28 ' 15.651 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586277.02** East **500192.25**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **106.07**
   Elevation Top of Outer casing: **106.41** Elevation of ground: **106.31**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED MARCH 17, 2008
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **THOMAS AND ANA CSEPES**
2. Well Location (Street Address) **359 WASHINGTON PLACE**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **2**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **P200910654**
2. Site Well Number (As shown on application or plans): **MW-11**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 35.526 "** Longitude: West **74 ° 28 ' 13.294 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586358.87** East **500374.40**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **106.20**
   Elevation Top of Outer casing: **106.40** Elevation of ground: **106.30**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED DECEMBER 8, 2009
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **THOMAS AND ANA CSEPES**
2. Well Location (Street Address) **359 WASHINGTON PLACE**
3. Well Location (Municipal Block and Lot) Block# **283** Lot # **5**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **P200910653**
2. Site Well Number (As shown on application or plans): **MW-12**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 34.650 "** Longitude: West **74 ° 28 ' 14.949 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586270.14** East **500246.53**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **106.30**
   Elevation Top of Outer casing: **106.50** Elevation of ground: **106.42**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED DECEMBER 8, 2009
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **DENISE LUZAK**
2. Well Location (Street Address) **368 WASHINGTON PLACE**
3. Well Location (Municipal Block and Lot) Block# **283** Lot # **2**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **P200910655**
2. Site Well Number (As shown on application or plans): **MW-13**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 34.473 "** Longitude: West **74 ° 28 ' 16.496 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586252.16** East **500126.94**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **105.79**
   Elevation Top of Outer casing: **106.23** Elevation of ground: **106.13**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED DECEMBER 8, 2009
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **JACOB KRAUZER**
2. Well Location (Street Address) **1674 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **278** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **P200910659**
2. Site Well Number (As shown on application or plans): **MW-14**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 36.192 "** Longitude: West **74 ° 28 ' 13.330 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586426.24** East **500371.65**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **106.41**
   Elevation Top of Outer casing: **106.64** Elevation of ground: **106.54**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED DECEMBER 8, 2009
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 5560-NORTH BRUNSWICK GULF SERVICE STATION

List all AKAs: LAWRENCE FUEL LLC

Street Address: 1696 GEORGES ROAD (AKA ROUTE 130)

Municipality: NORTH BRUNSWICK TOWNSHIP (Township, Borough or City)

County: MIDDLESEX Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): SEE NOTES

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner NEW JERSEY DEPARTMENT OF TRANSPORTATION
2. Well Location (Street Address) GEORGES ROAD (AKA ROUTE 130)
3. Well Location (Municipal Block and Lot) Block# ROW Lot # ROW

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): P200910660
2. Site Well Number (As shown on application or plans): MW-15
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40 ° 26 ' 36.991 " Longitude: West 74 ° 28 ' 14.330 "
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 586507.04 East 500294.27
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.47
   Elevation Top of Outer casing: 109.65 Elevation of ground: 109.58
   Check one: ☐ NAVD 88 ☐ NGVD 29 ☒ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED DECEMBER 8, 2009
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date 10/25/18

Surveyor's Name: JAMES M. STEWART License Number: 24GS02610800

Firm Name: DENNIS W. SKLAR, INC. Certificate of Authorization #: 24GA28150900

Mailing Address 3020 GLENN AVENUE

City/Town: BENSALEM State PENNSYLVANIA Zip Code: 19020

Phone Number (215) 268-7988 Ext.: N/A Fax: (215) 268-7966

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 5560-NORTH BRUNSWICK GULF SERVICE STATION

List all AKAs: LAWRENCE FUEL LLC

Street Address: 1696 GEORGES ROAD (AKA ROUTE 130)

Municipality: NORTH BRUNSWICK TOWNSHIP (Township, Borough or City)

County: MIDDLESEX Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): SEE NOTES

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner NEW JERSEY DEPARTMENT OF TRANSPORTATION
2. Well Location (Street Address) INTERSECTION OF GEORGES ROAD (AKA ROUTE 130) AND WASHINGTON
3. Well Location (Municipal Block and Lot) Block# ROW Lot # ROW

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): P200910661
2. Site Well Number (As shown on application or plans): MW-16
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40 ° 26 ' 35.718 " Longitude: West 74 ° 28 ' 16.871 "
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 586378.19 East 500097.90
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 108.77
   Elevation Top of Outer casing: 109.14 Elevation of ground: 109.16
   Check one: ☐ NAVD 88 ☐ NGVD 29 ☒ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM FORM B DATED DECEMBER 8, 2009
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date 10/25/18

Surveyor's Name: JAMES M. STEWART License Number: 24GS02610800

Firm Name: DENNIS W. SKLAR, INC. Certificate of Authorization #: 24GA28150900

Mailing Address 3020 GLENN AVENUE

City/Town: BENSALEM State PENNSYLVANIA Zip Code: 19020

Phone Number (215) 268-7988 Ext.: N/A Fax: (215) 268-7966

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 5560-NORTH BRUNSWICK GULF SERVICE STATION

List all AKAs: LAWRENCE FUEL LLC

Street Address: 1696 GEORGES ROAD (AKA ROUTE 130)

Municipality: NORTH BRUNSWICK TOWNSHIP (Township, Borough or City)

County: MIDDLESEX Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): SEE NOTES

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner NEW JERSEY DEPARTMENT OF TRANSPORTATION
2. Well Location (Street Address) GEORGES ROAD (AKA ROUTE 130)
3. Well Location (Municipal Block and Lot) Block# ROW Lot # ROW

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201804577
2. Site Well Number (As shown on application or plans): MW-17
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40 ° 26 ' 37.254 " Longitude: West 74 ° 28 ' 16.764 "
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 586533.65 East 500106.13
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.79
   Elevation Top of Outer casing: 110.19 Elevation of ground: 110.20
   Check one: ☐ NAVD 88 ☐ NGVD 29 ☒ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM DATA MINER SEARCH
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date 10/25/18

Surveyor's Name: JAMES M. STEWART License Number: 24GS02610800

Firm Name: DENNIS W. SKLAR, INC. Certificate of Authorization #: 24GA28150900

Mailing Address 3020 GLENN AVENUE

City/Town: BENSALEM State PENNSYLVANIA Zip Code: 19020

Phone Number (215) 268-7988 Ext.: N/A Fax: (215) 268-7966

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 5560-NORTH BRUNSWICK GULF SERVICE STATION

List all AKAs: LAWRENCE FUEL LLC

Street Address: 1696 GEORGES ROAD (AKA ROUTE 130)

Municipality: NORTH BRUNSWICK TOWNSHIP (Township, Borough or City)

County: MIDDLESEX Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): SEE NOTES

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner TOWNSHIP OF NORTH BRUNSWICK
2. Well Location (Street Address) WASHINGTON PLACE
3. Well Location (Municipal Block and Lot) Block# ROW Lot # ROW

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201804578
2. Site Well Number (As shown on application or plans): MW-18
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40 ° 26 ' 34.011 " Longitude: West 74 ° 28 ' 15.071 "
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 586205.46 East 500237.12
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 102.13
   Elevation Top of Outer casing: 102.70 Elevation of ground: 102.67
   Check one: ☐ NAVD 88 ☐ NGVD 29 ☒ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM DATA MINER SEARCH
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date 10/25/18

Surveyor's Name: JAMES M. STEWART License Number: 24GS02610800

Firm Name: DENNIS W. SKLAR, INC. Certificate of Authorization #: 24GA28150900

Mailing Address 3020 GLENN AVENUE

City/Town: BENSALEM State PENNSYLVANIA Zip Code: 19020

Phone Number (215) 268-7988 Ext.: N/A Fax: (215) 268-7966

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **E201804573**
2. Site Well Number (As shown on application or plans): **MW-19**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 35.915 "** Longitude: West **74 ° 28 ' 14.340 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586398.21** East **500293.54**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **109.72**
   Elevation Top of Outer casing: **110.20** Elevation of ground: **110.14**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM DATA MINER SEARCH
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 5560-NORTH BRUNSWICK GULF SERVICE STATION

List all AKAs: LAWRENCE FUEL LLC

Street Address: 1696 GEORGES ROAD (AKA ROUTE 130)

Municipality: NORTH BRUNSWICK TOWNSHIP (Township, Borough or City)

County: MIDDLESEX Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): SEE NOTES

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner TOWNSHIP OF NORTH BRUNSWICK
2. Well Location (Street Address) WASHINGTON PLACE
3. Well Location (Municipal Block and Lot) Block# ROW Lot # ROW

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201812604
2. Site Well Number (As shown on application or plans): MW-20
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40 ° 26 ' 33.662 " Longitude: West 74 ° 28 ' 14.608 "
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 586170.20 East 500272.93
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 101.03
   Elevation Top of Outer casing: 101.67 Elevation of ground: 101.63
   Check one: ☐ NAVD 88 ☐ NGVD 29 ☒ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM DATA MINER SEARCH
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date 12/18/18

Surveyor's Name: JAMES M. STEWART License Number: 24GS02610800

Firm Name: DENNIS W. SKLAR, INC. Certificate of Authorization #: 24GA28150900

Mailing Address 3020 GLENN AVENUE

City/Town: BENSALEM State PENNSYLVANIA Zip Code: 19020

Phone Number (215) 268-7988 Ext.: N/A Fax: (215) 268-7966

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **1696 ROUTE 130, LLC**
2. Well Location (Street Address) **1696 GEORGES ROAD (AKA ROUTE 130)**
3. Well Location (Municipal Block and Lot) Block# **282** Lot # **1**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **2800052189**
2. Site Well Number (As shown on application or plans): **RW-1**
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North **40 ° 26 ' 35.795 "** Longitude: West **74 ° 28 ' 15.832 "**
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North **586386.02** East **500178.18**
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **109.12**
   Elevation Top of Outer casing: **109.41** Elevation of ground: **109.45**
   Check one: ☐ **NAVD 88** ☐ **NGVD 29** ☒ **On Site Datum** ☐ **Other**
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'
   ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY
7. Significant observations and notes:
   PERMIT NUMBER FROM DATA MINER SEARCH
   CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. *2294LIST*

Professional Land Surveyor's Signature: Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**

Appendix G

Soil Disposal Manifest

CASIE / PROTANK
ENVIRONMENTAL SERVICES

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NONEREQUIRED Document No. 55181

2. Page 1 of 1

3. Generator's Name and Mailing Address
Environmental Maintenance
1420 East Mermaid Lane
Glenside PA 19038

4. Generator's Phone ( )

A. Non-hazardous Manifest Document Number: NHZ020 281095

B. State Generator's ID: North Brunswick Gulf 1696 Georges Rd North Brunswick NJ 08902 DECal # 02207

5. Transporter 1 Company Name: Casie Ecology Oil Salvage, Inc.

6. US EPA ID Number: NJD045959553

C. State Trans. ID: NJ6913

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (856) 6964401

E. State Trans. ID

9. Designated Facility Name and Site Address
Casie Ecology Oil Salvage, Inc.
3209 North Mill Road
Vineland NJ 08360

10. US EPA ID Number: NJD045959563

F. Transporter's Phone ( )

G. State Facility's ID

H. Facility's Phone (856 6964401

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	L Waste No.
a. Gasoline Contaminated Drill Cuttings Non DOT Regulated	XX6	DM	XX1300	G (56)	D27
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. 10789 C
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
24 hr emergency response #609-685-2156 G. Call

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

I hereby certify that the above-named material is not hazardous waste as defined by 40 CFR Part 261, 264 and 279 or any applicable state law.

GENERATOR

Printed/Typed Name: C. McGuth
Signature:
Month Day Year: 03 11 09

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James J Gilhooley
Signature:
Month Day Year: 03 11 09

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

In case of an emergency or spill, immediately call CASIE (800) 354-2584

1-GENERATOR COPY

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

Appendix H

Receptor Evaluation Form - 2/22/12

Initial Case Inventory Document - 2/22/12

Receptor Evaluation - 9-2019

Case Inventory Document - 10-2019

New Jersey Department of Environmental Protection
Site Remediation Program

PUBLIC NOTIFICATION AND OUTREACH
☐ Non-LSRP (Existing Cases) ☒ LSRP ☐ Subsurface Evaluator

Date Stamp
(For Department use only)

SECTION A. SITE LOCATION

Site Name: N orth Brunswick Gulf

List all AKAs:

Street Address: 1696 Georges Road

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Mailing Address if different than street address:

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-301546-07

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2: 08/30/2001

State Plane Coordinates for a central location at the site: Easting: 500229 Northing: 586425

Municipal Block(s) and Lot(s):

Block #	282	Lot #	1	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NOTIFICATION INFORMATION

1. Indicate the type of Public Notification:
   ☒ Initial ☐ Update
2. Public notification was provided via: (Check all that apply)
   Sign ☐ Yes ☐ No Fact sheet ☒ Yes ☐ No
   Letter ☒ Yes ☐ No Alternate plan ☐ Yes ☐ No
3. Were materials produced in a language other than English? ☐ Yes ☒ No
   If "Yes," in what other language was notification prepared? _____
4. Were copies provided to municipal clerk, local/county health dept., and local health agency? ☒ Yes ☐ No
5. Did you provide an electronic copy of all required submittals? ☒ Yes ☐ No
6. Was notification of excess fill material conducted pursuant to N.J.A.C. 7:26E-1.4(k)? ☐ Yes ☒ No
7. Was additional public outreach conducted due to the Department's determination of substantial public interest? ☐ Yes ☒ No

SECTION C. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: North Brunswick Gulf, Inc.

Representative First Name: Walter Representative Last Name: Lapp

Title: President

Phone Number: Ext: Fax:

Mailing Address: 1696 Georges Road Rt 130

City/Town: North Brunswick State: New Jersey Zip Code: 08902

Email Address:

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Walter Lapp Sr. Date: 1-4-12

Name/Title: Walter Lapp Sr. / President **No Changes Since Last Submittal** ☒

SECTION D. NON-LSRP SITE REMEDIATION PROFESSIONAL STATEMENT

First Name: _____ Last Name: _____

Phone Number: _____ Ext: _____ Fax: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Email Address: _____

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

Signature: _____ Date: _____

Name/Title: _____ **No Changes Since Last Submittal** ☐

Company Name: _____

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION D. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 519420

First Name: Frank Last Name: Jasiulewicz

Phone Number: (610) 384-2719 Ext: Fax: (610) 384-2709

Mailing Address: 119 Shephers Way

City/Town: Coatesville State: Pa. Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☒ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Frank Jasiulewicz Date: 2-20-12

LSRP Name/Title: Frank Jasiulewicz/President **No Changes Since Last Submittal** ☒

Company Name: On-Site Environmental, Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION D. SUBSURFACE EVALUATOR UST REPORT CERTIFICATION FORM

Certification by the Subsurface Evaluator:

I certify under penalty of law that the work was performed under my oversight and I have reviewed the report and all attached documents, and the submitted information is true, accurate and complete in accordance with the requirements of N.J.A.C. 7:14B and N.J.A.C. 7:26E. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information including fines and/or imprisonment.

Name: _____ UST Cert. No.: _____

Firm: _____ Firm's UST Cert. Number: _____

Firm Address: _____

City/Town: _____ State: _____ Zip Code: _____

Phone Number: _____ Ext: _____ Fax: _____

Signature: _____ Date: _____

No Changes Since Last Submittal ☐

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

Supplemental Information for Receptor Evaluation Form

Section B: #1: OnSite & Surrounding Property Use

- **Table 1:** Presents Properties within 200 feet of the site.
- **Figure1**: Tax Map showing locations within 200 feet of the site.

Section C: #2: Description of Contamination

Remedial investigations at the site were initiated in 2001 in response to a damaged underground storage tank that stored unleaded gasoline. The site has been a gasoline service station for approximately 45 years and facility operations may have contributed to the contamination. Since 2001 approximately 71 soil borings were installed, 167 soil samples were analyzed, and 16 groundwater monitoring wells have been installed and sampled to evaluate the contamination at the site. That information indicates that :

- There are concentrations of gasoline constituents in soil above the current residential direct contact soil standards. The compounds detected above the RDCS include benzene, naphthalene and lead. Although the extent of the naphthalene and lead in soil above the residential direct contact soil standards has not been totally defined to date the existing data indicates it does not extend off site. **Figure 2, 3 and 4** show the inferred extent of benzene, naphthalene and lead above the RDCS, respectively.
- There are concentrations of gasoline constituents in soil above the NJDEP default soil to groundwater screening levels. Those compounds include: BTEX, MTBE, naphthalene and lead. Since the laboratory detection levels for benzene, TBA and MTBE in a number of samples were higher than the default screening levels, the extent of soil above the default soil to groundwater screening levels has not been totally defined. **Figure 2, 3 and 4** show the inferred extent of benzene, naphthalene and lead above the default soil to groundwater screening levels, respectively.
- The extent of the groundwater plume has been defined and extends off site. In summary, the plume extends approximately 50 feet to the north beneath Rt. 130 and approximately 35 feet past the property boundary to the east and south. The compounds in groundwater above the NJDEP GWQS include BTEX, Naphthalene, MTBE, and TBA. **Figure 5** shows the extent of the benzene, MTBE and TBA groundwater plumes.

Section D: # 4: Ground Water Use

Table 2: Presents Well Search Information for Searches Performed in 2002 and 2010.

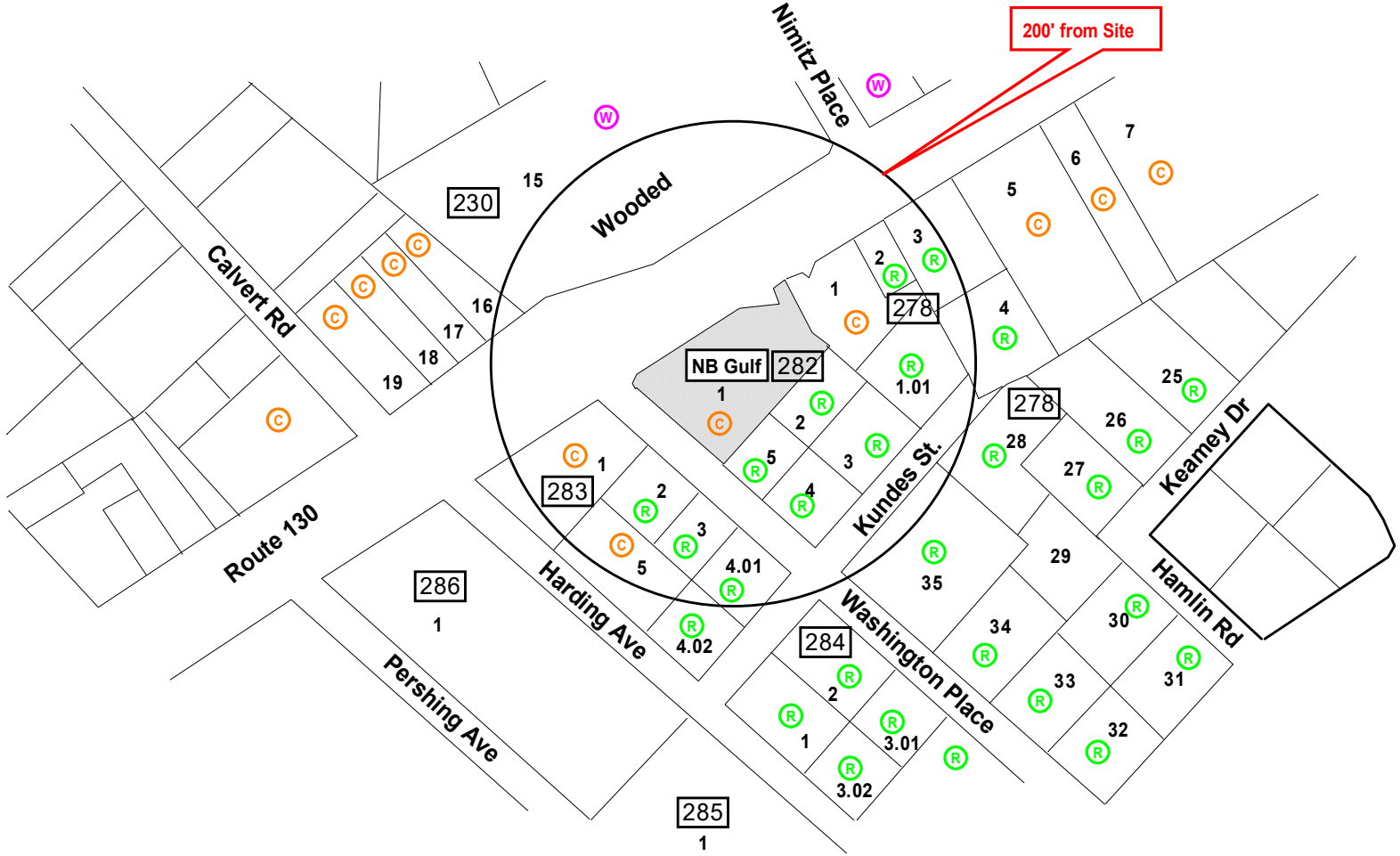
Section E # 3:

Figure 6: Map showing properties/sensitive populations within 30 feet of dissolved petroleum hydrocarbon contamination in groundwater with concentrations above vapor intrusion groundwater screening levels.

Table 1: Properties within 200 feet of North Brunswick Gulf Station & Mailing List that Received Notification Letters												
Block	**Lot**	**Occupant**	**Property Address**	**Township**	**State**	**Zip Code**	**Owner Name**	**Owner Address**				**Type of Use**
230	15	WOODED LOT	RT 130 (WOODED LOT)	NORTHBRUNSWICK	NJ		Labarbera Santo c/o S. Childs	101 CRICKET HILL CIRCLE	Princeton	NJ	08540	Vacant
230	16	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054	Equipment Rental
230	17	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054	Equipment Rental
278	1.01	AMEDURI CHRISTOPHER J & MICHELE	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	1	VALET DRY CLEANERS	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Jacob Krauszer	18 MULBERRY LANE	EDISON	NJ	08820	Dry Cleaner
278	1	QUIK OUT (CONVIENCE STORE)	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Jacob Krauszer	18 MULBERRY LANE	EDISON	NJ	08820	Convenience store
278	2		1670 RT 130	NORTHBRUNSWICK	NJ	08902	Roy & Amy Chereath	2 JUMPING BROOKE	MONROE	NJ	08831	Convenience store
278	3	CARMAN CARBAJAL & ULYSSES GONZALEZ	1660 RT 130	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1660 RT 130	NORTHBRUNSWICK	NJ	08902	Residential
278	4	DAMATO JOSEPH & KATHLEEN	1665 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1665 KUNDES STREET	NORTHBRUNSWICK	**NJ**	08902	Residential
278	28	CONLIN MARK J & KATHLEEN M	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	35	RAVENS JUAN R & LUCILLE	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	1	NORTH BRUNSWICK GULF	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	Walter Lapp Sr.	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	Service Sation
		NORTH BRUNSWICK GULF	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	Tennant	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	
282	2	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential backyard
282	3	ZHANG RONGHUI	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
282	4	CASSELLA DAVID	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	5	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	1	GETTY SEVICE STATION	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Giovanni & Dolores Pernice	12 PINE VALLY LANE	MONROE	NJ	08831	Service Station
283	1	ENTERPRISE RENT-A-CAR	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Giovanni & Dolores Pernice	12 PINE VALLEY LANE	MONROE	NJ	08831	Car Rental
283	2	LUZACK DENISE	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	3	ALZATE JORGE & HARUMI ROXANA	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.01	MATTEI RICHARD J & MARY M	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.02	PEDDI RAVINDRA & KAVITHA	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Residential
283	5	STORAGE YARD FOR LOT 1	HARDING AVE (STORAGE YARD)	NORTHBRUNSWICK	NJ		Giovanni & Dolores Pernice	12 PINE VALLY LANE	MONROE	NJ	08831	Storage yard for lot 1

Table 2: Well Search Information from Searches Performed in 2002 & 2010

WELL_PERMIT_NUM	WELL_TYPE	LOCATION_ADDRESS	COUNTY	MUNICIPALITY	COMU	BLOCK	LOT	X	Y	COORD_METHOD	FINISHED_DEPTH	OPEN_INTER	STATIC_LEVEL	STATUS
2800038	Domestic	66 Wood Ave	Middlesex	Middlesex Boro	1211	229	1	498525	586963	OTHER STATE COORD	64	36.58	7	
2800097	Domestic	East Brunswick	Middlesex	East Brunswick Twp	1204	309.02	40	501319	582967	OTHER STATE COORD	107	22.58	32	
2800341	Domestic	Hardenburg Lane	Middlesex	East Brunswick Twp	1204	307.12	2.11	502597.7	584118.8	OTHER STATE COORD	81	40	16	
2800350	Domestic	East Brunswick	Middlesex	East Brunswick Twp	1204	309.03	27.25	501515.2	584118.4	OTHER STATE COORD	87.5	37.5	13	
2800357	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	262	136.18	502596.6	586749.7	OTHER STATE COORD	130	44.66	14	
2800509	Domestic	East Brunswick	Middlesex	East Brunswick Twp	1204	262	120	501514.7	585433.8	OTHER STATE COORD	109	43.58	19	
2800537	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	230	23	499040.5	586748.5	OTHER STATE COORD	242	78.8	10	
2800543	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	143.10	7	500508.7	588165.5	OTHER STATE COORD	153	38.5	26	
2800581	Domestic					262	120	501514.7	585433.8	OTHER STATE COORD	91.83	39.5	14	
2800592	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	235	11	500509.2	586748.9	OTHER STATE COORD	57	34	14	
2800618	Domestic	402555 743430				227.02	12	498422.8	582802	OTHER STATE COORD	99	20	40	
2800700	Domestic	East Brunswick	Middlesex	East Brunswick Twp	1204	307.12	2.11	503602.9	584119.3	OTHER STATE COORD	99.5	59	20	
2800788	Garage	Milltown	Middlesex	Milltown Boro	1212	274	9	503601	588166.7	OTHER STATE COORD	150	28	10	
2800833	Domestic	East Brunswick	Middlesex	East Brunswick Twp	1204	307.12	2.11	502597.7	584118.8	OTHER STATE COORD	72	37.3	17	
2801023	discontinued	Fresh Pond Rd Milltown	Middlesex	Milltown Boro	1212	148	99.02	496411.7	586747.8	OTHER STATE COORD				
2801494	Domestic	Milltown	Middlesex	Milltown Boro	1212	274	9	503601	588166.7	OTHER STATE COORD	100	44	30	
2801913	Indudtrial	East Brunswick	Middlesex	East Brunswick Twp	1204	274	9	503661	588166.7	OTHER STATE COORD	82	10	54	
2802399	Domestic	Adams Station	Middlesex			221	10	498421.8	586748.2	OTHER STATE COORD	90	28	3	
2802801	Domestic	Adam Lane	Middlesex	North Brunswick Twp	1215	307.12	2.11	496411.7	586747.8	OTHER STATE COORD	50	20	10	
2803682	Domestic	Milltown	Middlesex	Milltown Boro	1212	275	6	502596	588166.3	OTHER STATE COORD	100	20	12	
2804170	Domestic	North Brunswick	Middlesex	North Brunswick Twp	1215	307.12	2.11	496411.7	586747.8	OTHER STATE COORD	82	26	8	
2815892	Domestic	Block 227 Lot 17.1 *should be 17.03*				227 or 221	17.03 or 19	499040.5	586040.1	OTHER STATE COORD	150	61	10	
2817525	Public	Greenbrook Twp				143	162	500044.6	588772.4	OTHER STATE COORD	200	52	60	
2821308	Domestic	RTE 130				219	35	497416.7	586748	OTHER STATE COORD	200	60	20	
2827299	Monitoring	JIS Landfill Rt 535	Middlesex	South Brunswick Twp	1221	309.03	26.01	501434	583406	OTHER STATE COORD	56	45	40	
2827299	Monitoring	JIS Landfill Rt 535	Middlesex	South Brunswick Twp	1221	309.03	26.01	501434	583406	OTHER STATE COORD	132	120	120	
2827307	Monitoring	JIS Landfill Rt 535	Middlesex	South Brunswick Twp	1221	309.03	26.01	501434	583406	OTHER STATE COORD	135	120	78	
2827362	piezometer	277 Washington Place	Middlesex	North Brunswick Twp	1215	286	1	498421.8	586748.2	OTHER STATE COORD	45.6	20	6	
2828497	Monitoring	Block 73 & 60 Lot 1C & 2C				275 or 73 &	6 or 1C & 2	502596	588166.3	OTHER STATE COORD	20	5	7	
2828498	Monitoring	Block 73 & 60 Lot 1C & 2C				275 or 73 &	6 or 1C & 2	502596	588166.3	OTHER STATE COORD	20	5	10	
2832978	Monitoring	Block 31.02 Lot 25.2 Middlesex	Middlesex			278	8.03	501514.2	586749.2	OTHER STATE COORD	13	3	7	
2832979	Monitoring	Block 31.02 Lot 25.2 Middlesex	Middlesex			278	8.03	501514.2	586749.2	OTHER STATE COORD	15	8	8	
2832980	Monitoring	Block 3102 Lot 37				278	8.03	501514.2	586749.2	OTHER STATE COORD	15	8	8	
2832981	Monitoring	Block 3102 Lot 37				278	8.03	501514.2	586749.2	OTHER STATE COORD	15	8	8	
2833172	Monitoring	Block 87 Lot 4 Orchard Ave & US 1	Middlesex	North Brunswick Twp	1215	148 or87	101.05 or4	497417	585432.6	OTHER STATE COORD	15	4	6.16	
2833649	Monitoring	Block 116 Lot 57 Roosevelt Ave	Middlesex	North Brunswick Twp	1215	143	116	499424	588264	OTHER STATE COORD	15	5	9	
2835319	Monitoring	433 Riva Ave. Block 309.02 Lot 36,37.05	Middlesex	East Brunswick Twp	1204	307.12 or30	2.11 or 36,	502597.7	584118.8	OTHER STATE COORD	25	15	19.16	
2835320	Monitoring	433 Riva Ave. Block 309.02 Lot 36,37.05	Middlesex	East Brunswick Twp	1204	307.12 or30	2.11 or 36,	502597.7	584118.8	OTHER STATE COORD	20	10	15.25	
2839792	Monitoring	433 Riva Ave. Block 309.02 Lot 36,37.05	Middlesex	East Brunswick Twp	1204	307.12 or30	2.11 or 36,	502597.7	584118.8	OTHER STATE COORD	20	10	10	
2839793	Monitoring	433 Riva Ave. Block 309.02 Lot 36,37.05	Middlesex	East Brunswick Twp	1204	307.12 or30	2.11 or 36,	502597.7	584118.8	OTHER STATE COORD	20	10	10	
2839794	Monitoring	433 Riva Ave. Block 309.02 Lot 36,37.05	Middlesex	East Brunswick Twp	1204	307.12 or30	2.11 or 36,	502597.7	584118.8	OTHER STATE COORD	30	20	18.25	
2839795	Monitoring	433 Riva Ave. Block 309.02 Lot 36,37.05	Middlesex	East Brunswick Twp	1204	307.12 or30	2.11 or 36,	502597.7	584118.8	OTHER STATE COORD	30	20	20	
2839966	Monitoring	433 Riva Ave. Block 309.02 Lot 46				309.02	45	502598.3	582803.4	OTHER STATE COORD	195	58.5	15	
MI0037	water withdrawal	Beaver Dam Brk				0	0	501516.4	580981.6	OTHER STATE COORD				
MI0037	water withdrawal	Pond				0	0	501516.4	580918.6	OTHER STATE COORD				
2800604	chicken farm	Drake Rd Lakewood	Middlesex	East Brunswick Twp	1204	227	3.17	496412.4	582801.5	OTHER STATE COORD	41	41	11	
2501150	Domestic	Brunswick	Middlesex	North Brunswick Twp	1215	148	105	496412.2	584116.9	OTHER STATE COORD	23.16	23.16	5	
2806250	Domestic	Adams Station Rd - 8th St. North Brunswick				143	374	496411.4	588164.4	OTHER STATE COORD	40	40	5	
2822733	Investigation	Block 17.1 Lot 242.1				143.04 or 1	64.0302 or2	499502.9	590897.2	OTHER STATE COORD	8	8		
2822734	Investigation	Block 17.1 Lot 242.1				143.04 or 1	64.0302 or2	499502.9	590897.2	OTHER STATE COORD	7	7		
2822735	Investigation	Block 17.1 Lot 242.1				143.04 or 1	64.0302 or2	499502.9	590897.2	OTHER STATE COORD	7	7		
2801736	Domestic	Milltown	Middlesex	Milltown Boro	1212	270	2	503600.3	589482.2	OTHER STATE COORD	100	100	40	
2812915	Domestic	Burd Ln East Amwell twp. Block 36 Lot 1	Middlesex			310.03 or36	3 or10	503603.5	582803.9	OTHER STATE COORD	50	50	40	
2819275	Domestic	10 Hillcrest Ave Block 310 Lot 76040	Middlesex	East Brunswick Twp	1204	309.04 or31	1910 or760	500511	581386	OTHER STATE COORD	63	63	50	
2800073	Intermittent Service	North Brunswick	Middlesex	North Brunswick Twp	1215	310	57.01	501516.3	581386.4	OTHER STATE COORD	45.5	45.5	8	
97-12108	public supply	Old Georges Road	Middlesex	East Brunswick Twp	1204					OTHER STATE COORD				
2802092	Domestic	Hardenburg Lane	Middlesex	East Brunswick Twp	1204	308.05	11	504686	582804.4	OTHER STATE COORD	46	46	30	
28174356	Observation	Combs Place	Middlesex	East Brunswick Twp	1204			505224.8	587459.3	OTHER STATE COORD	19	19		
28-44182	Monitoring	40-B Cotters Lane Block 29.04 Lot 10.04	Middlesex	East Brunswick Twp	1204	29.04	10.04				2.5	2.5		
2849053	Monitoring	28 Louise Drive Block 00307-0 Lot 0001	Middlesex	East Brunswick Twp	1204	00307-0	00014				10	10	5	
280001061	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	216	10	499503.7	588165.1	OTHER STATE COORD				
2800543	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	143.10	7	500508.7	588165.5	OTHER STATE COORD				
2800000398	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	221	10	498421.8	486748.2	OTHER STATE COORD				
2800000588	Domestic	New Brunswick City	Middlesex	North Brunswick Twp	1215	221	10	498421.8	486748.2	OTHER STATE COORD				
2800002399	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	221	10	498421.8	486748.2	OTHER STATE COORD				
2800015892	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	221	19	499040.5	586040.1	OTHER STATE COORD				
2800000537	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	230	23	499504.1	586748.5	OTHER STATE COORD				
2800000592	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	235	11	500509.2	586748.9	OTHER STATE COORD				
2800003602	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	221	25	498422.1	585432.8	OTHER STATE COORD				
2800005756	Domestic	North Brunswick Twp.	Middlesex	North Brunswick Twp	1215	221	25	498422.1	585432.8	OTHER STATE COORD				
	abandon	360 Washington Street	Middlesex	North Brunswick Twp	1215	283	3	500170	586179	ADDRESS MATCH				Inactive
	abandon	277 Washington Place	Middlesex	North Brunswick Twp	1215	286	1	499874	585990	ADDRESS MATCH				Inactive
	Domestic	1546 Edley Cove Court	Middlesex	North Brunswick Twp	1215	262	106	502661	585730	ADDRESS MATCH				



KEY

- (R) Residential Property
- (C) Commercial Property
- (W) Wooded
- 4208 Block
- 2 Lot

N

0' 242'

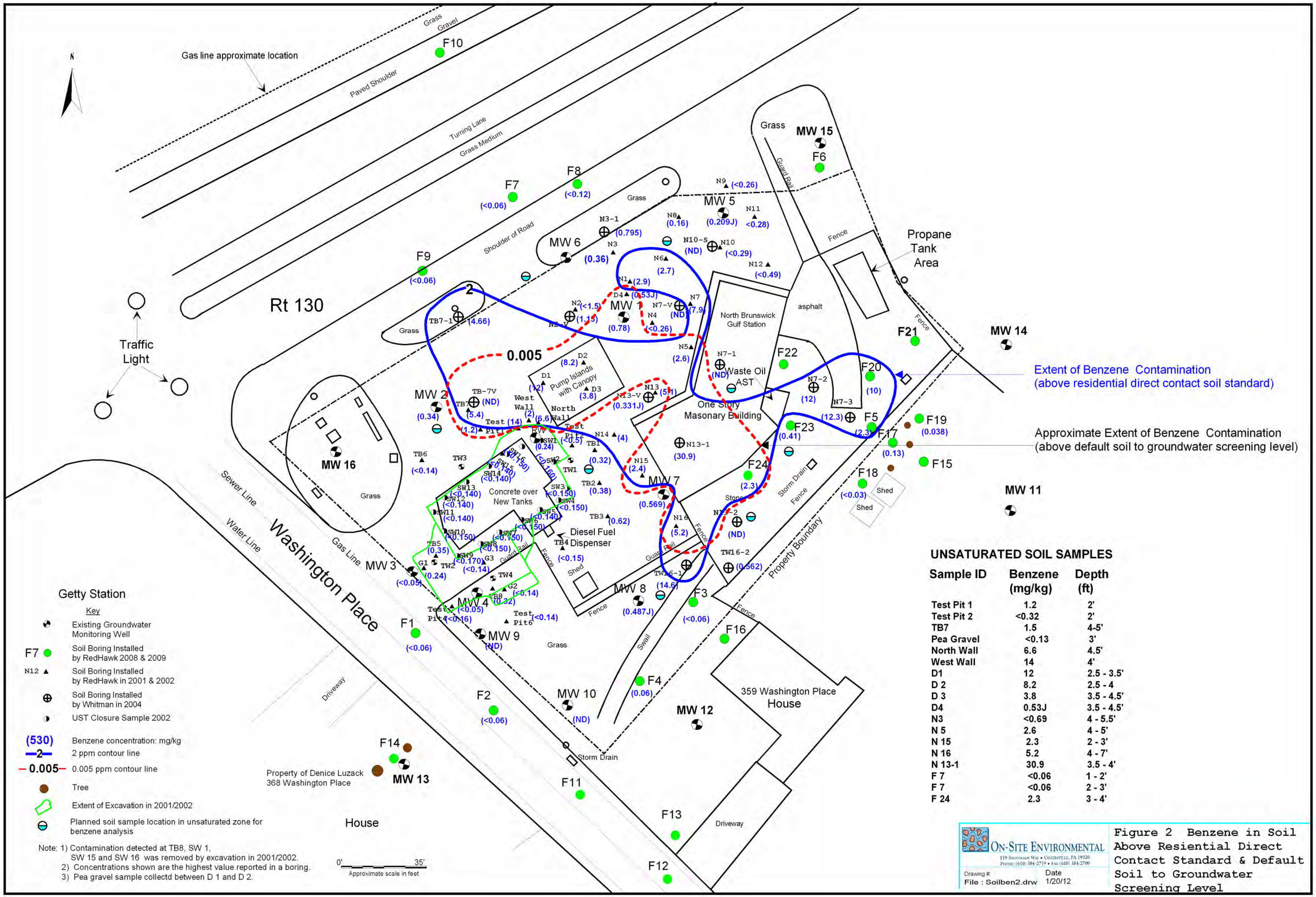
APPROXIMATE SCALE IN FEET

RedHawk Environmental
2845 Hale Hollow Road
Bridgewater Corners, VT 05035

File: taxmap.drw | Date 3/11/10

Figure 1 Tax Map

North Bruswick Gulf
1696 Georges Road Rt 139
North Brunswick,New Jersey



UNSATURATED SOIL SAMPLES

Sample ID	Benzene (mg/kg)	Depth (ft)
Test Pit 1	1.2	2'
Test Pit 2	<0.32	2'
TB7	1.5	4-5'
Pea Gravel	<0.13	3'
North Wall	6.6	4.5'
West Wall	14	4'
D1	12	2.5 - 3.5'
D 2	8.2	2.5 - 4
D 3	3.8	3.5 - 4.5'
D4	0.53J	3.5 - 4.5'
N3	<0.69	4 - 5.5'
N 5	2.6	4 - 5'
N 15	2.3	2 - 3'
N 16	5.2	4 - 7'
N 13-1	30.9	3.5 - 4'
F 7	<0.06	1 - 2'
F 7	<0.06	2 - 3'
F 24	2.3	3 - 4'

ON-SITE ENVIRONMENTAL
119 Stevenson Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2799

Drawing #: File : Soilben2.drw
Date 1/20/12

Figure 2 Benzene in Soil Above Resiential Direct Contact Standard & Default Soil to Groundwater Screening Level

Getty Station

Gas line approximate location

Grass
Gravel
Paved Shoulder
Turning Lane
Grass Medium
Shoulder of Road

Rt 130

Traffic Light

North Brunswick Gulf Station

Pump Islands with Canopy

Concrete over Tanks

Diesel Fuel Dispenser

Waste Oil AST

One Story Masonary Building

asphalt

Propane Tank Area

Extent of Naphthalene Contamination (that exceeds residential direct contact standard)

Guard Rail
Fence
Shed
Stone
Storm Drain
Swell
Property Boundary

Sewer Line
Water Line
Gas Line

Washington Place

Driveway

Grass

359 Washington Place House

Property of Denice Luzack
368 Washington Place

House

MW 1
MW 2
MW 3
MW 4
MW 5
MW 6
MW 7
MW 8
MW 9
MW 10
MW 11
MW 12
MW 13
MW 14
MW 15
MW 16

F1 (<0.1)
F2 (<0.1)
F3 (<0.1)
F4 (<0.1)
F5 (12)
F6
F7 (<0.1)
F8 (1.5)
F9 (<0.5)
F10
F11
F12
F13
F14
F15
F16
F17 (1.6)
F18 (<0.05)
F19 (<0.05)
F20 (28)
F21
F22
F23 (14)
F24 (9.7)

N1 (10)
N2 (10)
N3 (7.8)
N4 (<0.4)
N5 (11)
N6 (3.6)
N7 (20)
N8 (<0.41)
N9 (<0.39)
N10 (0.57)
N11 (<0.43)
N12 (<0.73)
N13 (13)
N14 (13)
N15 (14)
N16 (16)

D1 (3.9)
D2 (6.5)
D3 (9.0)
D4 (5.2)

Test Pit1 (2.6)
Test Pit2 (23)
Test Pit4
Test Pit6

TB1
TB2
TB3
TB4
TB5
TB6
TB7 (11)
TB8

TW1 (<0.05)
TW2
TW3
TW4
TW16-1
TW16-2

SW8
SW14

G1 (<0.05)
G2 (<0.05)
G3

RW (2) (6.6)

Key

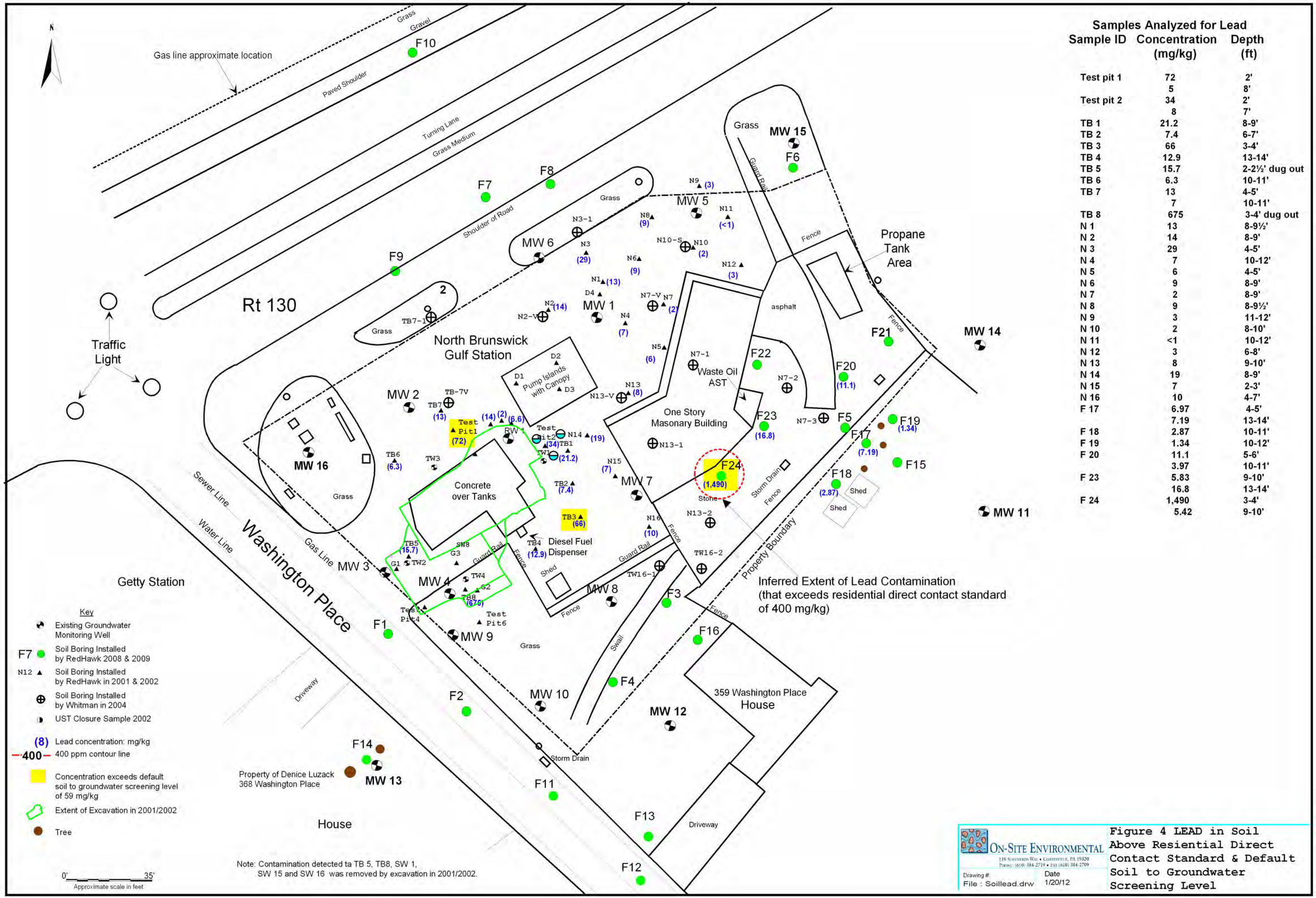
- Existing Groundwater Monitoring Well
- F7 Soil Boring Installed by RedHawk 2008 & 2009
- N12 Soil Boring Installed by RedHawk in 2001 & 2002
- Soil Boring Installed by Whitman in 2004
- UST Closure Sample 2002
- (14) Naphthalene concentration: mg/kg
- --6-- 6 ppm contour line
- Extent of Excavation in 2001/2002
- Tree

0' 35'
Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: File : Soilnap.drw
Date 1/20/12

Figure 3 Naphthalene in Soil Above Resiential Direct Contact Standard & Default Soil to Groundwater Screening Level



Samples Analyzed for Lead

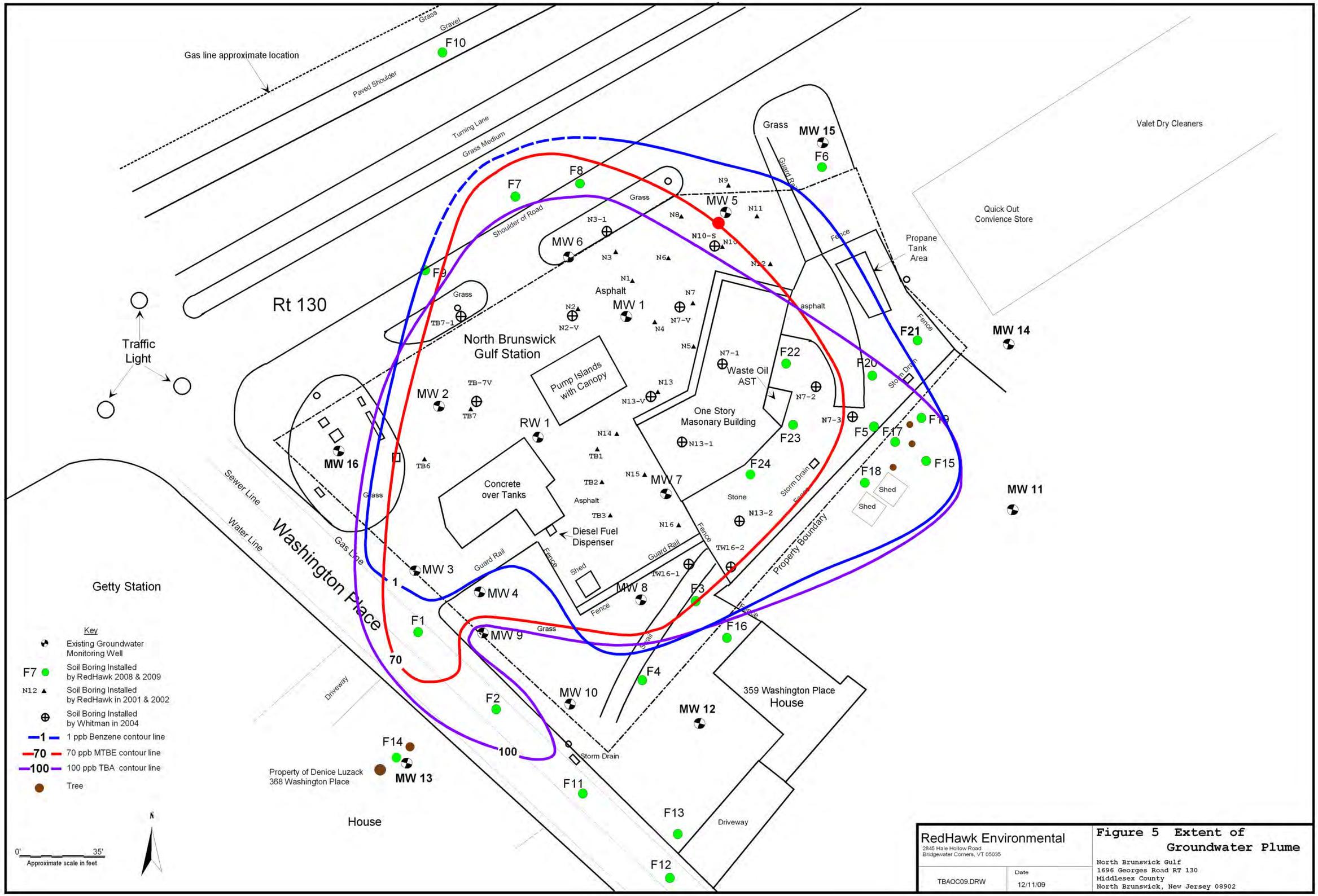
Sample ID	Concentration (mg/kg)	Depth (ft)
Test pit 1	72	2'
	5	8'
Test pit 2	34	2'
	8	7'
TB 1	21.2	8-9'
TB 2	7.4	6-7'
TB 3	66	3-4'
TB 4	12.9	13-14'
TB 5	15.7	2-2½' dug out
TB 6	6.3	10-11'
TB 7	13	4-5'
	7	10-11'
TB 8	675	3-4' dug out
N 1	13	8-9½'
N 2	14	8-9'
N 3	29	4-5'
N 4	7	10-12'
N 5	6	4-5'
N 6	9	8-9'
N 7	2	8-9'
N 8	9	8-9½'
N 9	3	11-12'
N 10	2	8-10'
N 11	<1	10-12'
N 12	3	6-8'
N 13	8	9-10'
N 14	19	8-9'
N 15	7	2-3'
N 16	10	4-7'
F 17	6.97	4-5'
	7.19	13-14'
F 18	2.87	10-11'
F 19	1.34	10-12'
F 20	11.1	5-6'
	3.97	10-11'
F 23	5.83	9-10'
	16.8	13-14'
F 24	1,490	3-4'
	5.42	9-10'

ON-SITE ENVIRONMENTAL
119 Silverbrook Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing # File : Soillead.drw

Date 1/20/12

Figure 4 LEAD in Soil Above Resiential Direct Contact Standard & Default Soil to Groundwater Screening Level



RedHawk Environmental
2845 Hale Hollow Road
Bridgewater Corners, VT 05035

TBAOC09.DRW

Date
12/11/09

Figure 5 Extent of Groundwater Plume

North Brunswick Gulf
1696 Georges Road RT 130
Middlesex County
North Brunswick, New Jersey 08902

30 feet from groundwater with concentrations above vapor intrusion screening levels for groundwater

Nimitz Place

Wooded

Calvert Rd

Route 130

Harding Ave

Pershing Ave

Kundes St.

Keamey Dr

Hamlin Rd

Washington Place

NB Gulf

230

278

282

283

286

284

285

278

KEY

- Residential Property
- Commercial Property
- Wooded
- 4208 Block
- 2 Lot
- Approximate Extent of Impacts above Vapor Intrusion Screening Levels for Groundwater

N

0' 242'

APPROXIMATE SCALE IN FEET

RedHawk Environmental
2845 Hale Hollow Road
Bridgewater Corners, VT 05035

File: taxmap3.drw

Date 5/11/10

Figure 6 Tax Map

North Bruswick Gulf
1696 Georges Road Rt 139
North Brunswick,New Jersey

Case Inventory Document						
I. Area(s) of Concern, Receptor and Emergency Response Tracking	***Impacted Media***	***Contaminants of Concern***	***Exposure Route***	***Receptors***		***Current Status/Outcome***
				Existing	***Potential***	
AOC 1 Gasoline USTs	Soil & Groundwater	BTEX, MTBE	Ground water	None	None	**August 30, 2001 Incident - Gasoline UST damaged during Phase II investigation. Interim remedial action were performed and all gasoline USTs were removed and closed in December 2001. Remaining soil and groundwater impacts above standards are mainly from old releases at site. Groundwater contamination was delineated and is off-site.**
AOC 2 old pump island	Soil & Ground water	BTEX, MTBE, TBA, naphthalene, lead	Soil & Ground water	None	None	**1998 - Pump island was removed and upgrades performed. 2001/2002 - Investigations detected soil and groundwater impacted by old pump island and associated USTs. USTs closed in December 2001 (same USTs as referenced in AOC 1). Groundwater contamination was delineated and is off-site. Additional soil samples will be collected to define the extent of soil above the default soil to groundwater screening level for benzene. Also soil samples will be collected for total organic carbon content to evaluate feasability of developing a site specific soil to groundwater standard for benzene. In addition, soil samples will be collected to define the extent of naphthalene in soil above the residential direct contact soil standard. Soil samples will also be collected in the upper two feet of the soil column for lead analysis at test pit 1, test pit 2, TB 5 and TB 8 and the results will be compared to ecological screening levels.**
AOC 3 Lead in soil behind station building	Soil	Lead	soil	None	None	**February 19, 2009 - Lead detected in soil above direct contact standard onsite behind station building. Soil samples will be collected to define the extent of lead in this AOC.**

2019

New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

RECEPTOR EVALUATION (RE) FORM

Date Stamp
(For Department use only)

SECTION A. SITE

Site Name: Lawremce Fuel LLC AKA 1696 RT 130 LLC AKA North brunswwick Gulf

Program Interest (PI) Number(s): 010180

Communication Center Number(s) and/or ISRA number(s) for this submission: (as *many as will fit in the space provided)*

01-08-30-1546-07 01-08-30-1549-55 19-05-08-1010-08

This form must be attached to the Cover/Certification Form if not submitted through a Remedial Phase Online Service

Indicate the type of submission:

☐ Initial RE Submission

☒ Updated RE Submission

Indicate the reason for submission of an updated RE form

☐ Submission of an Immediate Environmental Concern (IEC) source control report;
☒ Submission of a Remedial Investigation Report;
☐ Submission of a Remedial Action Report;

Check if included in updated RE

☒ The known concentration or extent of contamination in any medium has increased;
☐ A new AOC has been identified;
☐ A new receptor is identified;
☐ A new exposure pathway has been identified.

SECTION B. ON SITE AND SURROUNDING PROPERTY USE

1. Identify any sensitive populations/uses that are currently on-site or surrounding property usage within 200 feet of the site property boundary (*check all that apply*):

	On-site	Off-site
None of the following	☐	☐
Residences or residential property	☐	☒
Public or Private Schools Grades K-12	☐	☐
Child care centers	☐	☐
Public parks, playgrounds or other recreation areas	☐	☐
Other sensitive population use(s) Explain _____	☐	☐

If any of the above applies, attach a list of addresses, facility names, type of use, and a map depicting each location relative to the site.

2. Current site uses (*check all that apply*):

☐ Industrial ☐ Residential ☒ Commercial
☐ School or child care ☐ Government ☐ Park or recreational use
☐ Vacant ☐ Agricultural ☐ Other: _____

3. Planned future on-site uses and off-site uses within 200 feet of the site boundary (*check all that apply*):

On-Site	Off-Site		On-Site	Off-Site		On-Site	Off-Site	
☐	☐	Industrial	☐	☐	Residential	☐	☐	Commercial
☐	☐	School or child care	☐	☐	Government	☐	☐	Park or recreational use
☐	☐	Vacant	☐	☐	Agricultural	☐	☐	Other: _____

Provide a map depicting the location of the proposed changes in land use.

SECTION C. DESCRIPTION OF CONTAMINATION

1. Identify if any of the following exist at the site:

Yes	No	
☐	☐	Free product [N.J.A.C. 7:26E-1.8] identified is ☐ LNAPL* or ☐ DNAPL**.
		Date identified: _____
☐	☐	Residual product [N.J.A.C. 7:26E-1.8]
☐	☐	Other primary source materials not identified above (e.g., buried drums, containers, unsecured friable asbestos). See form instructions for additional information.
		Explain: _____

* LNAPL – measured thickness of .01 feet or more

**DNAPL – See *Ground Water Technical Guidance* and *USEPA Assessment and Delineation of DNAPL Source Zones at Hazardous Waste Sites* (attached as Appendix A of the NJDEP GW Guidance) available at: http://www.nj.gov/dep/srp/guidance/#pa_si_ri_gw. Also, see US EPA DNAPL Overview available at: http://cluin.org/contaminantfocus/default.focus/sec/Dense_Nonaqueous_Phase_Liquids_(DNAPLS)/cat/Overview

2. Soil Migration Pathway

Has soil contamination been delineated to the applicable Direct Contact Soil Remediation Standard pursuant to N.J.A.C. 7:26E-4.2? ☒ Yes ☐ No

Are all soils either below the applicable Direct Contact Criteria or under an institutional control (i.e. deed notice)? ☐ Yes ☒ No

3. If this evaluation is submitted with a technical document that includes contaminant summary information, proceed to Section D. Otherwise, attach a brief summary of all currently available data and information to be included in the site investigation or remedial investigation report.

SECTION D. GROUND WATER USE

1. Have all potentially contaminated areas of concern been evaluated to determine if there is a potential that ground water is contaminated pursuant to N.J.A.C. 7:26E-3.5? ☒ Yes ☐ No

If "**No**," proceed to Section E.

2. Is a ground water investigation required? ☒ Yes ☐ No

If "**No**," proceed to Section E.

3. Has a groundwater investigation been conducted? ☒ Yes ☐ No

If "**Yes**":
Has the laboratory data package been received? ☒ Yes ☐ No

If the laboratory data package has not been received, provide the expected due date for data: _____ and proceed to Section E.

If "**No**":
Proceed to Section E.

4. Is ground water contaminated above the Ground Water Remediation Standards [N.J.A.C.7:9C]? ☒ Yes ☐ No

If "**Yes**": Provide the date that the laboratory data package was available and confirmed contamination was identified above the Ground Water Remediation Standards. Date: 08/30/2001

If "**No**": Proceed to Section E.

5. Has ground water contamination been delineated to the applicable Remediation Standard pursuant to N.J.A.C 7:26E-4.3? ☒ Yes ☐ No

6. What is the ground water classification for this site as per N.J.A.C. 7:9C? (*check all that apply*)

☐ Class I-A	☒ Class II-A
☐ Class I-PL Pinelands Protection Area	☐ Class III-A
☐ Class I-PL Pinelands Preservation Area	☐ Class III-B

7. Has a well search been completed? ☒ Yes ☐ No

Date of most recent or updated well search: 08/29/2019

8. Is a completed Well Search Spreadsheet or historical well search table attached and has an electronic copy of the spreadsheet been submitted to srpgis_wrs@dep.nj.gov. ☒ Yes ☐ No

Note: Redacted wells must be excluded from all non-confidential documents including maps, tables, etc. (see RE Instructions).

If "**No**," explain: _____

9. Are any potable or irrigation wells located within ½ mile of the currently known extent of contamination? ☒ Yes ☐ No

If "**Yes**,":

- A door to door survey is required in accordance with [N.J.A.C.7:26E-1.14(a)ii]. Attach results of the door to door survey.
- Identify if any of the following conditions exist based on the well search and door to door survey [N.J.A.C.7:26E-1.14(a)]:

Yes	No	
☐	☒	Potable wells located within 500 feet from the downgradient edge of the currently known extent of contamination.
☐	☒	Potable wells located 250 feet upgradient or 500 feet side gradient of the currently known extent of contamination.
☐	☒	Ground water contamination from the discharge is located within a Tier 1 wellhead protection area (WHPA).

10. Has sampling been conducted of ☐ potable well(s) and /or ☐ non-potable use well(s)? ☐ Yes ☒ No

If "No," provide justification then proceed to Question 12.

No potable or irregation wells found within 1,000 ft of site during door to door survey

11. Has contamination been identified in potable well(s), **not attributed to background conditions**, above the Class II Ground Water Remediation Standards or State Safe Drinking Water levels, N.J.A.C 7:1E, whichever is applicable? ☐ Yes ☐ No

If "**Yes**":

- Provide the date laboratory data package was received: _____
- Follow the **IEC** Guidance Document at http://www.nj.gov/dep/srp/guidance/IEC/index.html for required actions and answer the following:
- Has an engineered system response action been completed on all impacted receptors? ☐ Yes ☐ No
  Provide a brief narrative description:

Date completed: _____ NJDEP Case Manager: _____

12. Has contamination been identified in non-potable well(s), **not attributed to background conditions**, above the Class II Ground Water Remediation Standards? ☐ Yes ☐ No

If "**Yes**," provide the date laboratory data package was received: _____

13. Has the ground water use evaluation been completed pursuant to N.J.A.C. 7:26E-1.14? ☒ Yes ☐ No

SECTION E. VAPOR INTRUSION (VI)

1. Indicate if any of the following conditions exist that trigger a Vapor Intrusion investigation. For each condition checked "Yes", provide the date the condition was first identified (e.g. date laboratory data package was available). (*see NJDEP Vapor Intrusion Technical Guidance*)

Yes	No		Date Condition First Identified
☒	☐	Ground water contamination in excess of the NJDEP Vapor Intrusion Ground Water Screening Levels (VIGWSL) and within 30 feet of a building for Petroleum Hydrocarbon Compounds (PHC) or 100 feet for non-PHC compounds	10/29/2009
☐	☒	Free product within 30 feet of a building for PHC or 100 feet for non-PHC compounds	
☐	☒	Soil gas contamination detected at concentrations that exceed the Soil Gas Screening Levels (SGSL)	
☐	☒	Indoor air contamination that exceeds the Indoor Air Screening Levels	
☐	☒	Wet basement or sump containing free product or ground water containing detectable concentration of volatile organic contaminants	
☐	☒	Methane generating conditions causing oxygen deficient or explosion concern	
☐	☒	Other human or safety concern from the VI pathway (i.e. elemental mercury, unsaturated soil contamination), *explain below:*	

If you checked "No" to all boxes in Question 1., proceed to Section F, "Ecological Receptors", otherwise complete the rest of this section.

2. Has ground water contamination been delineated to the applicable Vapor Intrusion Ground Water Screening Levels pursuant to N.J.A.C 7:26E-4.3? ☒ Yes ☐ No

3. Was a site-specific screening level, modeling or other alternative approach employed for the VI pathway? ☐ Yes ☒ No

4. Identify and locate, on a scaled map, any buildings/sensitive populations that exist within the following distances from ground water contaminant concentrations above the Vapor Intrusion Ground Water Screening Levels or other specific triggers noted in Question 1 above.:

Yes	No	
☒	☐	30 feet of petroleum free product or dissolved petroleum hydrocarbon contamination in ground water
☐	☐	100 feet of any non-petroleum free product (e.g. chlorinated hydrocarbons) or any non-petroleum dissolved volatile organic ground water contamination
☐	☐	Other specific triggers
☐	☐	No buildings exist within the specified distances or other specific triggers

5. Is the vapor intrusion pathway a concern at or adjacent to the site? (if "No," attach justification) ☒ Yes ☐ No

6. Has soil gas sampling of the building(s) been conducted? ☐ Yes ☒ No
   If "**Yes**," has the laboratory data package been received? ☐ Yes ☐ No
   If the data package was received, did constituents exceed the Soil Gas Screening Levels? ☐ Yes ☐ No
   If "**No**," attach technical justification consistent with the NJDEP Vapor Intrusion Technical Guidance.

7. Has indoor air sampling been conducted at the identified building(s)? ☒ Yes ☐ No
   If "**Yes**," has the laboratory data package been received? ☒ Yes ☐ No
   If the data package has been received, did constituents exceed the Indoor Air Screening Levels? ☐ Yes ☒ No
   If "**No**," or awaiting indoor air laboratory data package, proceed to Question 12.

8 Has indoor air contamination been identified but not suspected to be from a discharge? (if "**Yes**," attach justification) ☐ Yes ☒ No

9. Were indoor air results above the NJDEP's Rapid Action Levels? ☐ Yes ☒ No

If "**Yes**":

- Provide the date laboratory data package was received: _____
- Follow the **IEC** Guidance Document at http://www.nj.gov/dep/srp/guidance/index.html#iec for required actions and answer the following:
- Was the IEC engineering system response for control implemented for all impacted structures? ☐ Yes ☐ No

Date implemented: _____ NJDEP Case Manager: _____

10. Were the results of indoor air sampling above the NJDEP's Indoor Air Screening Levels but at, or below, the Rapid Action Levels ☐ Yes ☒ No

If "**Yes**," answer the following:

- Provide the date laboratory data package was received: _____
- Has the Vapor Concern (VC) Response Action Form notifying the NJDEP of the exceedances been submitted? ☐ Yes ☐ No

  Date: _____
- Has a plan to mitigate and monitor the exposure been submitted? ☐ Yes ☐ No

  Date: _____
- Has the Mitigation Response Action Report been submitted? ☐ Yes ☐ No

  Date: _____

11. Do one or more buildings have an Indeterminate VI Pathway status? ☐ Yes ☒ No

If "**Yes**," attach a list of the building(s) with address(s) and block/lot(s)

12. Has the vapor intrusion investigation been completed? ☒ Yes ☐ No

If "**No**", is the vapor intrusion investigation stepping out as part of the site investigation or remedial investigation. (If "No," attach justification) ☐ Yes ☐ No

SECTION F. ECOLOGICAL RECEPTORS

1. Has an Ecological Evaluation (EE) been conducted? [N.J.A.C. 7:26E-1.16] ☒ Yes ☐ No

   Date conducted: 04/10/2019
2. Are any site-related contaminants above any Ecological Screening Criteria? ☒ Yes ☐ No
3. Are there any Environmentally Sensitive Natural Resources (ESNRs) on or adjacent to the site, or potentially impacted by site related contamination? [N.J.A.C. 7:26E-1.16] ☐ Yes ☒ No
4. Do any potential or complete migration pathways exist between Contaminant of Potential Ecological Concern (COPECs) and ESNRs, or did historic migration pathways exist? ☐ Yes ☒ No

If You answered "No" to Questions 2, 3, or 4, above Stop Here (form is complete).

5. If site-related free or residual product is/was present, does/did a potential or complete migration pathway exist to an ESNR? ☐ Yes ☒ No
6. Do the results of an EE trigger a remedial investigation of ecological receptors? [N.J.A.C. 7:26E-4.8] ☐ Yes ☒ No

   If "**Yes**", has a remedial investigation of ecological receptors been conducted? ☐ Yes ☐ No

   Date conducted: _____

7. Do available data indicate an impact (COPECs above Ecological Screening Criteria in ESNRs) to Ecological Receptor(s), Surface water, or Sediment? ☐ Yes ☒ No

   If "**Yes**,"

   a) Check all ESNRs or media that apply:

   ☐ Surface water ☐ Sediment ☐ Soil ☐ Wetlands

   b) If this information is not submitted with an ecological evaluation that includes contaminant summary information, attach a brief summary of all currently available data and a description of all actions to be taken to mitigate exposure.

8. Have COPECs been fully delineated to the Ecological Screening Criteria [N.J.A.C. 7:26E-4.8(a)] in:

   a) Migration pathways ☒ Yes ☐ No

   b) ESNR ☐ Yes ☒ No

9. Has an Ecological Risk Assessment been conducted? ☐ Yes ☒ No

10. Provide the following information for any on-site and/or off-site surface water body, which is potentially impacted by the site related discharges:

Surface Water Body Name	Stream Classification	Antidegradation Designation	Trout Production	Trout Maintenance
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐

11. Has a Program Interest (PI) or Permit number been issued for any regulated areas by the Division of Land Use Regulation? (e.g. wetlands, transition areas, flood hazard areas, coastal areas, tidelands, etc.). ☐ Yes ☒ No

    If "**Yes**,":

    Identify the type(s) of regulated areas: _____

    Provide the Land Use Regulation Program (LURP) PI or Permit number(s) for the site:

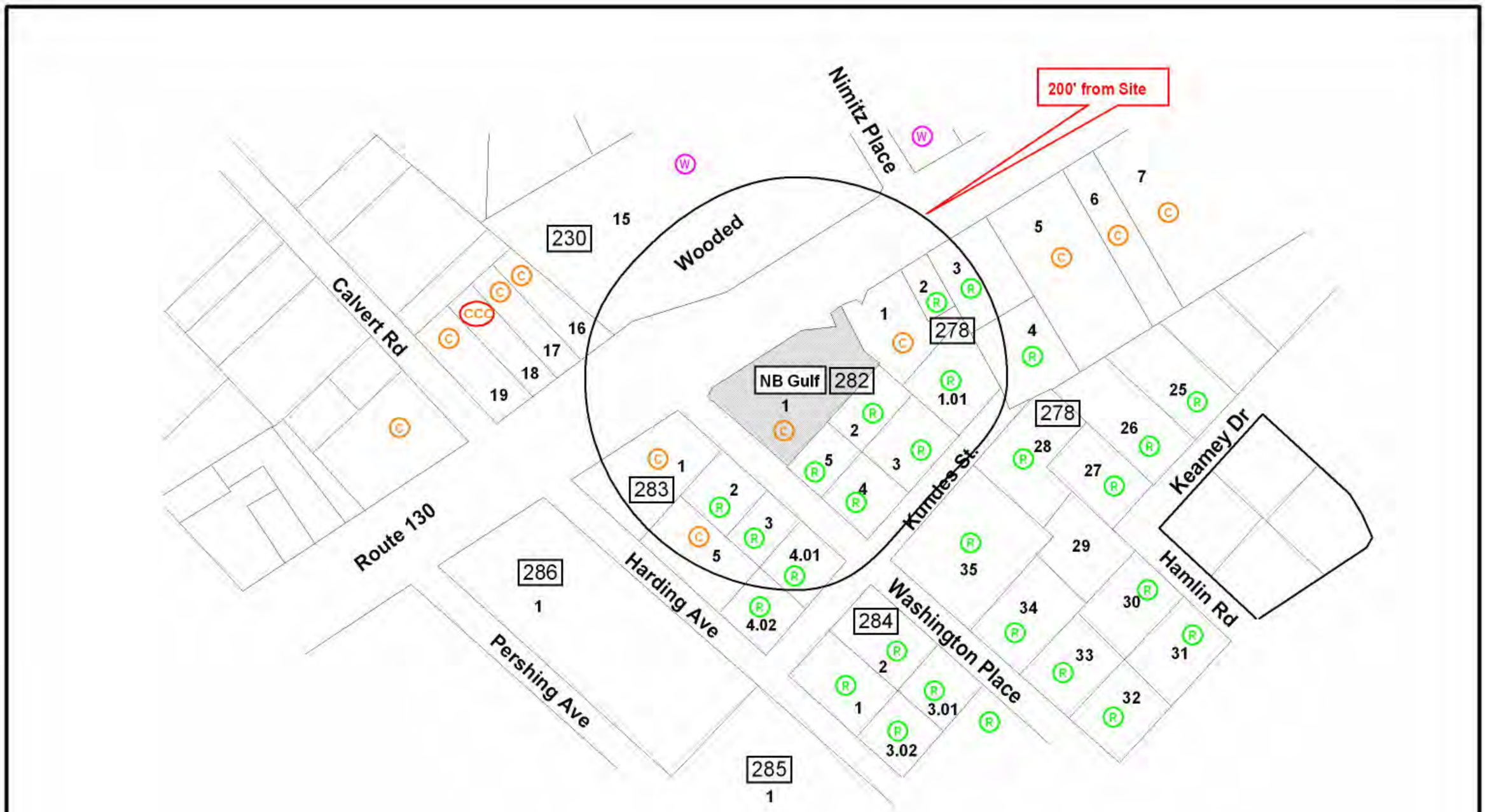
    _____

12 Are there any **pending** applications for LURP jurisdiction letters or approvals under review by the NJDEP for the remediation? ☐ Yes ☒ No

13. Are there any **valid** LURP jurisdiction letters or approvals issued for the remediation? ☐ Yes ☒ No

Completed forms should be sent to the municipal clerk, designate health department, and:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420



KEY

- (R) Residential Property
- (C) Commercial Property
- (W) Wooded
- (CCC) Child Care Center
- 4208 Block
- 2 Lot

Source: NJDEP Geo Web

N

0' 242'

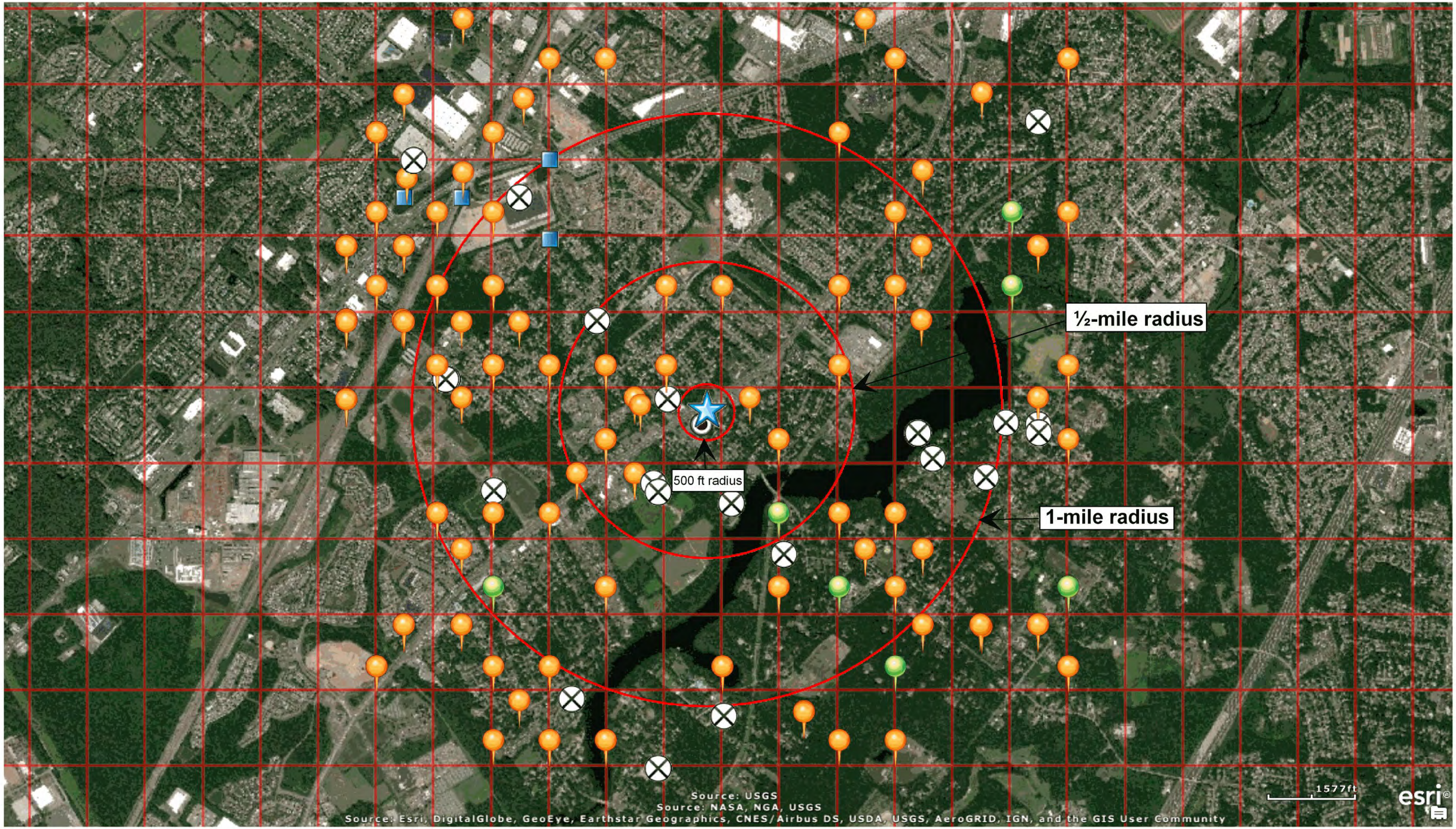
APPROXIMATE SCALE IN FEET

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatsville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: File : taxmap

Date 7/23/18

Figure 1 Land Use
North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ



Domestic Well

Irrigation Well

Non-Public, Public Non Community, Public Community not shown per NJDEP directive

Decommissioned Well

1696 Rt 130, LLC AKA North Brunswick Gulf

Inactive Domestic Well within Canvas Area

Industrial Well

0' 1415'
Approximate scale in feet

N

ON-SITE ENVIRONMENTAL
119 Shipyard Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: well search 8/2019

Date 8/29/19

Figure 2 Wells within 1-mile
8/29/19

North Brunswick Gulf
1696 Georges Road RT 130
North Brunswick, New Jersey 08902

Rt 130

Rt 130

Benzene 20 ppp contour line
5/21 - 22/19 data

20

700

Ethylbenzene 700 ppb contour line
12/19-21/2016 data

MW 17

MW 15

MW 5

MW 6

MW 1

MW 2

MW 16

RW 1

MW 7

MW 19

(1,790)

MW 14

MW 11

MW 3

MW 8

MW 4

MW 9

MW 10

MW 12

MW 13

MW 18

MW 20

P6

P107

TB7-1

Grass

Grass Medium

Gravel

Water line

Property Boundary

Office

Dispenser

Kiosk

Concrete
Over New
Tanks

Electric

Sewer line

Gas Line

Guard Rail

Fence

Shed

Stone

asphalt

Storm Drain

Swale

Driveway

Quick Out
Convience Store

Csepes residene

HL

FD

Washington Place

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser

Key

Existing Groundwater
Monitoring Well

Building within vapor intrusion trigger distance

20 Benzene20 ppb contour line based on december 2016 groundwater samples from monitoring wells

700 Ethylbenzene700 ppb contour line based on May 2019 groundwater samples from monitoring wells

Csepes residence and the onsite building is within 30 feet of the 700 ug/l trigger contour line for vapor intrusion & convenience store is within 30 feet of the 20 ug/l contour line.

Note: Benzene groundwater screeening level for vapor intrusion is 20 ppb & ethylbenzene screening level is 700 ppb.

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: Fig 3 RE

Date 9/12/19

Figure 3 Buildings Within VI Trigger Distances

North Bruswick Gulf
1696 Georges Road Rt 130
North Brunswick,New Jersey

Table 1: Properties within 200 feet of North Brunswick Gulf Station

Block	Lot	Occupant	Property Address	Township	State	Zip Code	Owner Name	Owner Address				Type of Use
230	15	WOODED LOT	RT 130 (WOODED LOT)	NORTHBRUNSWICK	NJ		Labarbera Santo % J Labarbera	101 CRICKET HILL CIRCLE	Princeton	NJ	08540	Vacant
230	16	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	7 Button Bush Court	MT LAUREL	NJ	08054	Equipment Rental
230	17	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC		MT LAUREL	NJ	08054	Equipment Rental
278	1.01	AMEDURI CHRISTOPHER J & MICHELE	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	1	VALET DRY CLEANERS	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Krauszer Family Route 130 LLC	18 MULBERRY LANE	EDISON	NJ	08820	Dry Cleaner
278	1	QUIK OUT (CONVIENCE STORE)	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Krauszer Family Route 130 LLC	18 MULBERRY LANE	EDISON	NJ	08820	Convenience store
278	2	Resident	1670 RT 130	NORTHBRUNSWICK	NJ	08902	Roy & Amy Chereath	2 JUMPING BROOKE	MONROE	NJ	08831	Residential
278	3	Resident	1660 RT 130	NORTHBRUNSWICK	NJ	08902	Kolluru Nagesh K	4 Eddington Lane	Monroe	NJ	08931	Residential
278	4	DAMATO JOSEPH & KATHLEEN	1665 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1665 KUNDES STREET	NORTHBRUNSWICK	**NJ**	08902	Residential
278	28	CONLIN MARK J & KATHLEEN M	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	35	RAVENS JUAN R & LUCILLE	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	1	Precision Auto Service	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	1696 Route 130 LLC	555 Georges Road	Dayton	NJ	08810	Auto repair
	1	Fai Fuel, Inc.: Mobil	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	1696 Route 130 LLC	555 Georges Road	Dayton	NJ	08810	Retail gasoline & diesel fuel sales
282	2	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential backyard
282	3	Resident	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Mendizabal Maynor	1 Duer Lane	Staton Island	NY	10301	Residential
282	4	CASSELLA DAVID	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	5	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	1	SEVICE STATION	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Service Station
283	1	Spotless Hand Carwash & Detailing	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Cra Wash
283	2	LUZACK DENISE	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	3	ALZATE JORGE & HARUMI ROXANA	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.01	TalJ George	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.02	PEDDI RAVINDRA & KAVITHA	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Residential
283	5	STORAGE YARD FOR LOT 1	HARDING AVE (STORAGE YARD)	NORTHBRUNSWICK	NJ		Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Storage yard for lot 1

Table 2: Well Search 8/29/19

Download Documer	Permit Number	Well Use	Potentially Potable	Document	Date (permitted/drill	Physical Address	County	Municipality	Block	Lot	Location Method	Easting X	Northing Y	Distance (feet)	Depth (feet)	Capacity (gal/min)	COORD METHOD	TOP OPEN INT	BOT OPEN INT	STATIC LEVEL	STATUS	WELL SAMPLED?
	P20092414	Domestic	Yes	Permit	3/13/2009	28 HENRY STREET	Middlesex	East Brunswick Twp	310	54.06	GPS	501971	580590	6,060.65	90	20					Outside Canvass	
	P20092414	Domestic	Yes	Record	4/10/2009	28 HENRY STREET	Middlesex	East Brunswick Twp	310	54.06	GPS	501968	580571	6,077.98	120	25					Outside Canvass	
PDF Document	HAND DUG	Domestic	Yes	Decommissioning	7/2/2019	286 RIVA AVE	Middlesex	East Brunswick Twp	308.26	14	GPS	506163	586084	5,945.09							Outside Canvass	
PDF Document	Hand dug	Domestic	Yes	Decommissioning	7/9/2018	336 Riva Ave	Middlesex	East Brunswick Twp	308.19	4.01	GPS	505218	585241	5,123.42							Outside Canvass	
PDF Document	Hand dug	Domestic	Yes	Decommissioning	6/27/2018	302 old Georges rd	Middlesex	North Brunswick Twp	227	20.01	GPS	499359	584974	1,863.76							Outside Canvass	
PDF Document	A1806028	Domestic	Yes	Decommissioning	6/13/2018	197 Herdenburg Lane	Middlesex	East Brunswick Twp	309.03	27.26	GPS	501606	583867	2,879.26							Outside Canvass	
PDF Document	Hand dug	Domestic	Yes	Decommissioning	6/6/2018	302 old Georges rd	Middlesex	North Brunswick Twp	227	20.01	GPS	499275	585129	1,582.6							Outside Canvass	
		Domestic	Yes	Decommissioning	3/26/1999	536 RIVA AVE	Middlesex	East Brunswick Twp	310	31	GIS Parcel Centroid	499359	580052								Outside Canvass	
		Domestic	Yes	Decommissioning	10/31/1991	24 GARDEN TERRACE	Middlesex	East Brunswick Twp	307.04	18.00	Prop Loc - Hand Copy	506153	586177								Outside Canvass	
		Domestic	Yes	Decommissioning	5/24/1993	RT 1 & JERSEY AVE	Middlesex	North Brunswick Twp	142	15-1	Prop Loc - Hand Copy	496875	590222								Outside Canvass	
		Domestic	Yes	Decommissioning	5/22/1990	28 VAN LEW AVE	Middlesex	Milltown Boro	24	7	Prop Loc - Hand Copy	506150	591575								Outside Canvass	
		Domestic	Yes	Decommissioning	5/1/2012	5 ANN TERRACE	Middlesex	East Brunswick Twp	308.03	6	GIS Parcel Centroid	504004	585025								Outside Canvass	
		Domestic	Yes	Decommissioning	8/30/2000	51 LOUISE DR	Middlesex	East Brunswick Twp	307.02	3	GIS Parcel Centroid	504269	585575								Outside Canvass	
PDF Document	handdug	Domestic	Yes	Decommissioning	4/2/2013	435 Calvert Road	Middlesex	North Brunswick Twp	230	21	GPS	499526	586633	739.68							Outside Canvass	
PDF Document	hand dug	Domestic	Yes	Decommissioning	1/3/2013	2053 Rt. 130 South	Middlesex	North Brunswick Twp	148	103	GPS	498420	584998	4,053.94							Outside Canvass	
		Domestic	Yes	Decommissioning	12/17/2010	59 ADELPHIA ROAD	Monmouth	Howell Twp	219	11	Digital Image	497813	581291	5,644.75							Outside Canvass	
PDF Document	Hand Dug	Domestic	Yes	Decommissioning	11/26/2012	626 Myrtle Road	Middlesex	North Brunswick Twp	218	12	GPS	498261	588026	2,564.34							Outside Canvass	
PDF Document	hand dug	Domestic	Yes	Decommissioning	4/26/2012	765 Darmody Ave.	Middlesex	North Brunswick Twp	163	6	GPS	495538	586990	4,725.73							Outside Canvass	
PDF Document	A1204091	Domestic	Yes	Decommissioning	4/26/2012	765 Darmody Ave	Middlesex	North Brunswick Twp	163	6	GPS	495586	586985	4,677.49							Outside Canvass	
PDF Document	A1204090	Domestic	Yes	Decommissioning	4/26/2012	765 Darmody Ave	Middlesex	North Brunswick Twp	163	6	GPS	495558	586984	4,707.12							Outside Canvass	
		Domestic	Yes	Decommissioning	8/22/2008	3 PERSHING CT	Middlesex	North Brunswick Twp	227	32.05	Digital Image	500669	584774	1,679.48							Outside Canvass	
		Domestic	Yes	Decommissioning	11/14/2006	28 GARDEN TER	Middlesex	East Brunswick Twp	307.04	19	GIS Parcel Centroid	505576	586213								Outside Canvass	
		Domestic	Yes	Decommissioning	5/6/2005	502 RIVA AVE	Middlesex	East Brunswick Twp	310	44	GIS Parcel Centroid	500534	580986								Outside Canvass	
	2500005128	Domestic	Yes	Permit	10/21/1955		Somerset	Franklin Twp			Prop Loc - Hand Copy	504055	587950		150	10					Outside Canvass	
	2500004496	Domestic	Yes	Permit	4/25/1955		Middlesex	New Brunswick City			Prop Loc - Hand Copy	493783	587557		150	12					Outside Canvass	
	2500004495	Domestic	Yes	Permit	4/25/1955		Middlesex	New Brunswick City			Prop Loc - Hand Copy	493783	587557		150	12					Outside Canvass	
	2500004494	Domestic	Yes	Permit	4/25/1955		Middlesex	New Brunswick City			Prop Loc - Hand Copy	494788	587557		150	12					Outside Canvass	
	2500004489	Domestic	Yes	Permit	4/25/1955		Middlesex	New Brunswick City			Prop Loc - Hand Copy	493783	587557		0	0					Outside Canvass	
	2500004488	Domestic	Yes	Permit	4/25/1955		Middlesex	New Brunswick City			Prop Loc - Hand Copy	494788	587557		150	12					Outside Canvass	
	2800002092	Domestic	Yes	Permit	5/8/1955		Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	503150	582096		75	10					Outside Canvass	
	2800002092	Domestic	Yes	Record	5/11/1956	HARDENBURG LN	Middlesex	East Brunswick Twp			Prop Loc - Dig Image	504093	582130	5,756.51	88	0					Outside Canvass	
	2800001913	Domestic	Yes	Permit	10/27/1955		Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	504065	587950		120	60					Outside Canvass	
	2800001816	Domestic	Yes	Permit	8/12/1955		Middlesex	Milltown Boro			Prop Loc - Hand Copy	506152	588876		100	110					Outside Canvass	
	2800001816	Domestic	Yes	Record	8/25/1955	FARRINGTON BLVD	Middlesex	Milltown Boro			Prop Loc - Hand Copy	506152	588876		65	0					Outside Canvass	
	2800001736	Domestic	Yes	Permit	6/29/1955		Middlesex	Milltown Boro			Prop Loc - Hand Copy	504065	588875		150	15					Outside Canvass	
	2800001724	Domestic	Yes	Permit	6/23/1955		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	495870	590188		100	15					Outside Canvass	
	2800001688	Domestic	Yes	Permit	5/25/1955		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	493783	586140		80	10					Outside Canvass	
	2800001688	Domestic	Yes	Record	5/31/1955	UNKNOWN	Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	493783	586140		75	0					Outside Canvass	
	2800001604	Domestic	Yes	Permit	3/30/1955		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	505145	591608		100	10					Outside Canvass	
	2800001604	Domestic	Yes	Record	4/20/1955	KEARNEY DR.	Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	505145	591608		82	0					Outside Canvass	
	2800001596	Domestic	Yes	Permit	3/28/1955		Middlesex	South Brunswick Twp			Prop Loc - Hand Copy	495870	592920		200	50					Outside Canvass	
	2800001543	Domestic	Yes	Permit	1/25/1955		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	493783	587557		80	10					Outside Canvass	
	2800001543	Domestic	Yes	Record	2/23/1955	RT 1	Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	493783	587557		108	0					Outside Canvass	
	2800000158	Domestic	Yes	Record	10/29/1949	GEORGES RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494814	582127	6,891.65	153.5	0					Outside Canvass	
	2800000149	Domestic	Yes	Record	9/17/1949	2370 RT 130	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494814	582127	6,891.65	97	0					Outside Canvass	
	2800000147	Domestic	Yes	Record	9/21/1949	OLD GEORGES RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494814	582127	6,891.65	103	0					Outside Canvass	
	2800000123	Domestic	Yes	Record	7/2/1949	OLD GEORGES RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	497907	584825	2,799.77	103	0					Outside Canvass	
	2800000097	Domestic	Yes	Record	2/28/1949		Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	501516	582803		100	6					Outside Canvass	
	2800000088	Domestic	Yes	Record	12/28/1948	RT 130 S	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	504089	590224	5,440.05	110	0					Outside Canvass	
	2800000073	Non-Public	Yes	Decommissioning	2/18/1992	ROUTE 1	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	503058	592922	7,116.14	133	0					Outside Canvass	
	2800000073	Non-Public	Yes	Permit	10/13/1948		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	501516	581386		100	6					Outside Canvass	
	2800000073	Non-Public	Yes	Record	1/20/1949	ROUTE 1	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	503058	592922	7,116.14	133	0					Outside Canvass	
	2800000038	Domestic	Yes	Permit	6/4/1948		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	497417	586748		100	6					Outside Canvass	
	2800000038	Domestic	Yes	Record	6/4/1948	WOOD AVE	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	498938	586174	1,307.1	64	0					Outside Canvass	
	2800000033	Domestic	Yes	Permit	4/21/1948		Middlesex	New Brunswick City			Prop Loc - Hand Copy	494324	590896		100	6					Outside Canvass	
	2800000033	Domestic	Yes	Record	4/22/1948	RT 26	Middlesex	New Brunswick City			Prop Loc - Hand Copy	494324	590896		66.5	0					Outside Canvass	
	2800000021	Industrial	Yes	Permit	1/19/1948		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	497416	590897		300	300					Outside Canvass	
	2800000021	Industrial	Yes	Record	8/1/1948	RT 26	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495844	590221	5,818.15	404	0					Outside Canvass	
	2500001150	Domestic	Yes	Permit	8/15/1951		Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	496412	584117		100	10					Outside Canvass	
	2500001150	Domestic	Yes	Record	9/1/1951	HOWE LN	Monmouth	Freehold Twp			Prop Loc - Hand Copy	496412	584117		126	6					Outside Canvass	
	2500001009	Domestic	Yes	Record	8/7/1951	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495845	586174	4,386.87	220	0					Outside Canvass	
	2800001494	Domestic	Yes	Permit	11/16/1954		Middlesex	Milltown Boro			Prop Loc - Hand Copy	503601	588167		100	5					Outside Canvass	
	2800001343	Domestic	Yes	Permit	7/19/1954		Middlesex	New Brunswick City			Prop Loc - Hand Copy	496413	581385		100	10					Outside Canvass	
	2800001312	Domestic	Yes	Permit	6/29/1954		Middlesex	Highland Park Boro			Prop Loc - Hand Copy	505689	588168		100	20					Outside Canvass	
	2800001312	Domestic	Yes	Record	8/4/1954	ORCHARD AVE & GARDEN TERRACE DR	Middlesex	Highland Park Boro			Prop Loc - Dig Image	506153	586177	5,930.97	85	0					Outside Canvass	
	2800001301	Domestic	Yes	Record	7/22/1954	EAST OF RIVA AVE	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	504092	583479	4,842.09	154	0					Outside Canvass	
	2800001160	Domestic	Yes	Permit	1/25/1954		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	497418	580070		150	10					Outside Canvass	
	2800001160	Domestic	Yes	Record	2/6/1954	CHURCH LN	Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	497418	580070		54	0					Outside Canvass	
	2800001153	Non-Public	Yes	Record	2/8/1954	RT 130	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494814	580778	7,799.26	162	0					Outside Canvass	
	2800001095	Domestic	Yes	Permit	11/2/1953		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	494324	589479		120	10					Outside Canvass	
	2800001095	Domestic	Yes	Record	11/19/1953	RT 1	Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	494324	589479		68	0					Outside Canvass	
	2800001087	Domestic	Yes	Permit	10/28/1953		Middlesex	Monroe Twp			Prop Loc - Hand Copy	505688	588168		60	6					Outside Canvass	
	2800001061	Domestic	Yes	Permit	10/15/1953		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	498504	588165		99	9					Outside Canvass	
	2800001024	Domestic	Yes	Record	10/8/1953	UNKNOWN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	498938	584826	2,029.47	88	0					Outside Canvass	
	2800001023	Domestic	Yes	Permit	9/23/1953		Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	496412	586748		70	10					Outside Canvass	
	2800001000	Public Non-Community	Yes	Permit	9/8/1953		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	494325	581385		200	67					Outside Canvass	
	2800001000	Public Non-Community	Yes	Record	12/31/1953	RT 130	Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	494325	581385		308	0					Outside Canvass	
	2800000928	Domestic	Yes	Permit	7/21/1953		Middlesex	New Brunswick City			Prop Loc - Hand Copy	494325	581385		115	5					Outside Canvass	
	2800000928	Domestic	Yes	Record	9/8/1953	RT 130	Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	494325	581385		80	0					Outside Canvass	
	2800000894	Domestic	Yes	Permit	6/18/1953		Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	498424	580070		50	10					Outside Canvass	
	2800000894	Domestic	Yes	Record	6/20/1953	RIVA AVE	Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	498424	580070		24	5					Outside Canvass	
	2800000833	Domestic	Yes	Permit	4/17/1953		Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	502598	584119		100	8					Outside Canvass	
	2800000833	Domestic	Yes	Record	5/21/1953	HARDENBURG LN	Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	502598	584119		72	0					Outside Canvass	
	2800000788	Domestic	Yes	Permit	2/26/1953		Middlesex	Milltown Boro			Prop Loc - Hand Copy	503601	588167		140	20					Outside Canvass	
	2800000788	Domestic	Yes	Record	7/16/1953	RIVA AVE	Middlesex	Milltown Boro			Prop Loc - Dig Image	506153	586177	5,930.97	150	0					Outside Canvass	
	2800000700	Domestic	Yes	Permit	12/9/1952		Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	503603	584119		100	10					Outside Canvass	
	2800000700	Domestic	Yes	Record	10/11/1952	HARDENBURG LN	Middlesex	East Brunswick Twp			Prop Loc - Hand Copy	503603	584119		99.5	0					Outside Canvass	
	2800000618	Domestic	Yes	Permit	6/23/1952		Somerset	Franklin Twp			Prop Loc - Hand Copy	498423	582802		130	10					Outside Canvass	
	2800000605	Domestic	Yes	Permit	6/12/1952		Middlesex	New Brunswick City			Prop Loc - Hand Copy	496412	582802		75	8					Outside Canvass	
	2800000604	Domestic	Yes	Permit	6/12/1952		Middlesex	New Brunswick City			Prop Loc - Hand Copy	496412	582802		75	8					Outside Canvass	
	2800000592	Domestic	Yes	Permit	5/23/1952	368 Washington Place	Middlesex	North Brunswick Twp	283	2	Prop Loc - Hand Copy	500128	586189		100	8	GIS Parcel Centroid				Inactive	
	2800000592	Domestic	Yes	Record	10/14/1952	368 Washington Palce	Middlesex	North Brunswick Twp	283	2	Prop Loc - Hand Copy	500128	586189		57	0	GIS Parcel Centroid				Inactive	
	2800000588	Domestic	Yes	Permit	5/20/1952		Middlesex	New Brunswick City			Prop Loc - Hand Copy	498422	586748		80	8					Outside Canvass	
	2800000588	Domestic	Yes	Record	6/5/1952	WOOD AVE	Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	498422	586748		60	0					Outside Canvass	
	2800000582	Domestic	Yes	Permit	5/12/1952		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	497417	584117		80	3					Outside Canvass	
	2800000581	Domestic	Yes	Permit	5/8/1952		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	501515	585434		100	10					Outside Canvass	
	2800000581	Domestic	Yes	Record	6/14/1952	HARDENBURG LN	Middlesex	East Brunswick Twp			Prop Loc - Dig Image	503062	583479	4,067.54	91.83	0					Outside Canvass	
	2800000543	Domestic	Yes	Permit	4/2/1952		Middlesex	North Brunswick Twp			Prop Loc - Hand Copy	500509	588165		100	10					Outside Canvass	
	2800000543	Domestic	Yes	Record	4/24/1952	UNKNOWN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	500999	586175	803.79	153	0					Outside Canvass	

	2800000537	Domestic	Yes	Permit	4/3/1952		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	499504	586749		250	69					Outside Canvass	
	2800000537	Domestic	Yes	Record	4/17/1952	RT 130	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	499504	586749		242	10					Outside Canvass	
	2800000510	Domestic	Yes	Permit	2/25/1952		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	502505	590898		100	5					Outside Canvass	
	2800000509	Domestic	Yes	Permit	2/25/1952		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	501515	585434		100	10					Outside Canvass	
	2800000509	Domestic	Yes	Record	2/28/1952	HARDENBURG LN	Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	501515	585434		109	0					Outside Canvass	
	2800000415	Domestic	Yes	Permit	10/24/1951		Middlesex	New Brunswick City			Prop Loc - Hard Copy	498422	586748		100	5					Outside Canvass	
	2800000398	Domestic	Yes	Permit	10/8/1951		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	498422	586748		100	8					Outside Canvass	
	2800000357	Domestic	Yes	Permit	9/11/1951		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	502597	586750		100	10					Outside Canvass	
	2800000357	Domestic	Yes	Record	10/3/1951	EDLYS LN	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	502597	586750		130	0					Outside Canvass	
	2800000350	Domestic	Yes	Permit	8/28/1951		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	501515	584118		100	6					Outside Canvass	
	2800000350	Domestic	Yes	Record	9/8/1951	HARDENBURG LN	Middlesex	East Brunswick Twp			Prop Loc - Dig Image	503062	583479	4,067.54	87.5	0					Outside Canvass	
	2800000341	Domestic	Yes	Permit	8/10/1951		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	502598	584119		100	6					Outside Canvass	
	2800000341	Domestic	Yes	Record	9/4/1951	HARDENBURGH LN	Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	502598	584119		81	0					Outside Canvass	
	2800000280	Domestic	Yes	Record	6/20/1951	RT 1	Middlesex	New Brunswick City			Prop Loc - Dig Image	493783	587523	6,541.43	120	0					Outside Canvass	
	2800000227	Domestic	Yes	Record	1/24/1951	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494813	588872	5,952.87	90	0					Outside Canvass	
	2800000226	Domestic	Yes	Record	12/9/1950	OLD GEORGES RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495845	582127	6,115.27	99.5	0					Outside Canvass	
	2800000224	Domestic	Yes	Record	12/6/1950	OLD GEORGES RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495845	582127	6,115.27	93	0					Outside Canvass	
	2800000170	Domestic	Yes	Permit	1/31/1950		Middlesex	New Brunswick City			Prop Loc - Hard Copy	506596	582806		150	6					Outside Canvass	
	2800002275	Domestic	Yes	Permit	9/17/1956		Middlesex	Milltown Boro			Prop Loc - Hard Copy	506892	589484		100	10					Outside Canvass	
	2800002275	Domestic	Yes	Record	1/28/1957	CHURCH LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	496877	580778	6,538.86	41	0					Outside Canvass	
	2800002227	Domestic	Yes	Permit	8/3/1956		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	498424	580070		30	6					Outside Canvass	
	2800002144	Domestic	Yes	Permit	6/13/1956		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	494324	589479		100	12					Outside Canvass	
	2800002102	Domestic	Yes	Permit	5/14/1956		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	495407	586748		100	10					Outside Canvass	
	2800002009	Domestic	Yes	Record	3/17/1956	OLD GEORGES RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	498938	584826	2,029.47	105	0					Outside Canvass	
	2800001746	Domestic	Yes	Permit	10/1/1957		Somerset	Green Brook Twp			Prop Loc - Hard Copy	505688	589168		150	10					Outside Canvass	
	2800003682	Domestic	Yes	Permit	9/26/1959		Middlesex	Milltown Boro			Prop Loc - Hard Copy	502596	588166		100	10					Outside Canvass	
	2800003682	Domestic	Yes	Record	10/5/1959	KEARNEY DR	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	502596	588166		100	0					Outside Canvass	
	2800003602	Domestic	Yes	Permit	7/20/1959		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	498422	585433		100	15					Outside Canvass	
	2800003127	Domestic	Yes	Permit	5/23/1958		Middlesex	Milltown Boro			Prop Loc - Hard Copy	498424	580070		40	25					Outside Canvass	
	2800003127	Domestic	Yes	Record	6/1/1958	RIVA AVE	Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	498424	580070		26	0					Outside Canvass	
	2800003106	Domestic	Yes	Permit	4/24/1958		Middlesex	New Brunswick City			Prop Loc - Hard Copy	495406	588164		150	10					Outside Canvass	
	2800003106	Domestic	Yes	Record	4/28/1958	ADAMS PL	Middlesex	New Brunswick City			Prop Loc - Hard Copy	495406	588164		100	0					Outside Canvass	
	2800002910	Domestic	Yes	Permit	11/13/1957		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496411	590896		150	20					Outside Canvass	
	2800002810	Domestic	Yes	Permit	10/4/1957		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	503605	580072		70	15					Outside Canvass	
	2800002801	Domestic	Yes	Permit	10/3/1957		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496412	586748		75	10					Outside Canvass	
	2800002801	Domestic	Yes	Record	9/30/1957	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495845	586174	4,388.87	50	0					Outside Canvass	
	2800002800	Domestic	Yes	Record	10/5/1957	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	496875	587523	3,535.79	55	0					Outside Canvass	
	2800002734	Domestic	Yes	Permit	9/5/1957		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	494324	590896		100	3					Outside Canvass	
	2800002683	Domestic	Yes	Permit	8/6/1957		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	494324	589479		110	4					Outside Canvass	
	2800002646	Domestic	Yes	Record	8/24/1957	HARDENBURG LANE	Middlesex	Milltown Boro			Prop Loc - Dig Image	505124	582130	6,493.92	140	0					Outside Canvass	
	2800002631	Domestic	Yes	Permit	7/12/1957		Middlesex	South Brunswick Twp			Prop Loc - Hard Copy	494324	588164		100	4					Outside Canvass	
	2800002622	Domestic	Yes	Record	8/21/1957	PRINCESS RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494813	591971	7,489.75	124	0					Outside Canvass	
	2800002582	Domestic	Yes	Permit	6/14/1957		Middlesex	Milltown Boro			Prop Loc - Hard Copy	506691	592216		100	10					Outside Canvass	
	2800002582	Domestic	Yes	Record	6/22/1957	51 PARDUN AVE	Middlesex	Milltown Boro			Prop Loc - Hard Copy	506691	592216		155	0					Outside Canvass	
	2800002529	Industrial	Yes	Permit	5/8/1957		Middlesex	Cranbury Twp			Prop Loc - Hard Copy	497416	589480		300	1000					Outside Canvass	
REDACTED	2800002451	Public Community	Yes	Permit	3/6/1957	REDACTED	Middlesex	East Brunswick Twp		REDACTED	Prop Loc - Hard Copy	0	0	REDACTED		15					Outside Canvass	
	2800002448	Domestic	Yes	Permit	2/27/1957		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	503600	589482		80	10					Outside Canvass	
	2800002447	Domestic	Yes	Permit	2/27/1957		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	503600	589482		80	10					Outside Canvass	
	2800002399	Domestic	Yes	Permit	1/9/1957		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	498422	586748		100	10					Outside Canvass	
	2800002399	Domestic	Yes	Record	1/14/1957	ADAMS RD	Middlesex	South Brunswick Twp			Prop Loc - Hard Copy	498422	586748		90	0					Outside Canvass	
	2800004279	Domestic	Yes	Permit	11/21/1961		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496411	590896		100	12					Outside Canvass	
	2800004245	Domestic	Yes	Permit	10/16/1961		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	498420	592212		120	10					Outside Canvass	
	2800004245	Domestic	Yes	Record	10/17/1961	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494813	588872	5,952.87	88	0					Outside Canvass	
	2800004170	Domestic	Yes	Permit	7/11/1961		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496412	586748		100	6					Outside Canvass	
	2800004170	Domestic	Yes	Record	8/7/1961	UNKNOWN	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496412	586748		82	0					Outside Canvass	
	2800003920	Domestic	Yes	Permit	7/13/1960		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	497418	581385		40	8					Outside Canvass	
	2800005116	Domestic	Yes	Record	11/18/1964	ADAMS LN & 7TH AVE	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495844	587523	4,524.64	100	0					Outside Canvass	
	2800005084	Domestic	Yes	Permit	4/24/1964		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496411	589480		75	12					Outside Canvass	
	2800005084	Domestic	Yes	Record	8/26/1964	DRISCOLL AVE	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494813	588872	5,952.87	74	10					Outside Canvass	
	2800004923	Domestic	Yes	Permit	12/6/1963		Middlesex	New Brunswick City			Prop Loc - Hard Copy	496413	580070		52	10					Outside Canvass	
	2800004923	Domestic	Yes	Record	12/17/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494813	588872	5,952.87	52	0					Outside Canvass	
	2800004835	Domestic	Yes	Permit	9/25/1963		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	495406	588164		60	20					Outside Canvass	
	2800004835	Domestic	Yes	Record	11/1/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494814	587523	5,528.88	60	0					Outside Canvass	
	2800004835	Domestic	Yes	Record	11/1/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	495406	588164		60	0					Outside Canvass	
	2800004767A	Domestic	Yes	Permit	7/21/1963		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496411	589480		70	10					Outside Canvass	
	2800004767A	Domestic	Yes	Record	9/5/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	493783	588872	6,903.46	70	0					Outside Canvass	
	2800004667	Domestic	Yes	Permit	4/29/1963		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	495406	588164		60	15					Outside Canvass	
	2800004667	Domestic	Yes	Record	4/20/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494814	587523	5,528.88	60	0					Outside Canvass	
	2800004667	Domestic	Yes	Record	4/20/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	495406	588164		60	0					Outside Canvass	
	2800004629	Domestic	Yes	Permit	3/11/1963		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	506837	581369		50	15					Outside Canvass	
	2800004572	Domestic	Yes	Permit	11/26/1962		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	503599	592214		130	10					Outside Canvass	
	2800004572	Domestic	Yes	Record	1/10/1963	ROUTES 1 & 130	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	503599	592214		150	10					Outside Canvass	
	2800004443	Domestic	Yes	Permit	8/8/1968	FRESH PONDS RD	Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	506935	585436		200	15					Outside Canvass	
	2800006389	Domestic	Yes	Permit	6/5/1968		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	497418	581385		80	15					Outside Canvass	
	2800006389	Domestic	Yes	Record	3/2/1970	CHURCH RD	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	497418	581385		72	0					Outside Canvass	
	2800006295	Domestic	Yes	Permit	1/9/1968		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	502599	580071		150	10					Outside Canvass	
	2800006250	Domestic	Yes	Permit	9/26/1967		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496411	588164		125	10					Outside Canvass	
	2800006250	Domestic	Yes	Record	9/27/1967	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496411	588164		95	0					Outside Canvass	
	2800005756	Domestic	Yes	Permit	1/24/1966		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	498422	585433		125	8					Outside Canvass	
	2800005467	Domestic	Yes	Record	6/20/1965	FRESH PONDS RD	Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	506155	582131	7,302.77	107	0					Outside Canvass	
	2800005360	Domestic	Yes	Permit	1/27/1965		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	506898	582806		150	10					Outside Canvass	
	2800005360	Domestic	Yes	Record	6/15/1965	FRESH PONDS RD	Middlesex	East Brunswick Twp			Prop Loc - Dig Image	506155	582131	7,302.77	220	10					Outside Canvass	
	2800007434	Domestic	Yes	Record	2/21/1972	ADAMS ST	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	493783	588872	6,903.46	485	0					Outside Canvass	
	2800007422	Domestic	Yes	Record	2/1/1972	ADAMS ST	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	493783	588872	6,903.46	120	0					Outside Canvass	
	2500017566	Domestic	Yes	Permit	6/17/1975		Middlesex	East Brunswick Twp	824	18	Prop Loc - Hard Copy	501516	582803		175	10					Outside Canvass	
	2800008973	Domestic	Yes	Permit	10/9/1975		Middlesex	South Brunswick Twp	24	28B	Prop Loc - Hard Copy	497416	592212		50	10					Outside Canvass	
	2800011757	Domestic	Yes	Permit	7/24/1980		Middlesex	South Brunswick Twp	29	38C	Prop Loc - Hard Copy	495407	584117		200	10					Outside Canvass	
	2800011519	Domestic	Yes	Permit	12/5/1979		Mercer	Hopewell Twp	43L	14	Prop Loc - Hard Copy	506894	586752		200	10					Outside Canvass	
	2800012915	Domestic	Yes	Permit	5/4/1982		Hunterdon	East Amwell Twp	36	10	Prop Loc - Hard Copy	503603	582804		300	10					Outside Canvass	
	2800012614	Domestic	Yes	Permit	11/19/1981		Middlesex	East Brunswick Twp	308.21	18.23	Prop Loc - Hard Copy	505688	588168		150	15					Outside Canvass	
	2800012546	Domestic	Yes	Record	10/22/1981	OLD GEORGES ROAD	Middlesex	South Brunswick Twp	87	11	Prop Loc - Hard Copy	495407	586748		200	0					Outside Canvass	
	2800012360	Irrigation	Yes	Permit	7/7/1981		Middlesex	North Brunswick Twp	74	2	Prop Loc - Hard Copy	505688	589483		150	10					Outside Canvass	
	2800012317	Domestic	Yes	Permit	6/1/1981		Middlesex	North Brunswick Twp	325	6	Prop Loc - Hard Copy	495407	584117		15	10					Outside Canvass	
	2800012317	Domestic	Yes	Record	7/17/1981	OLD GEORGES ROAD	Middlesex	North Brunswick Twp	325	6	Prop Loc - Hard Copy	495407	584117		85	0					Outside Canvass	
	2800012147	Irrigation	Yes	Permit	3/3/1981		Middlesex	North Brunswick Twp	227	3205	Prop Loc - Hard Copy	506896	582806		200	15					Outside Canvass	
	2800012103	Irrigation	Yes	Permit	2/11/1981	1 Persing Court	Middlesex	North Brunswick Twp	227	32-4	Prop Loc - Hard Copy	506867	584867		200	50	Approx. Addr. Match				Inactive	
	2800012084	Domestic	Yes	Permit	2/3/1981		Middlesex	South Brunswick Twp	21	28-K	Prop Loc - Hard Copy	498424	580070		65	8					Outside Canvass	
	2800013671	Domestic	Yes	Permit	7/14/1983		Middlesex	North Brunswick Twp	74	29	Prop Loc - Hard Copy	494865	590087		300	10					Outside Canvass	
	2800015892	Domestic	Yes	Permit	10/27/1985	282 old georges rd	Middlesex	North Brunswick Twp	227	17.1	Prop Loc - Hard Copy	499040	580040		150	10	Approx. Addr. Match				Sealed	
	2800015892	Domestic	Yes	Record	12/17/1985	OLD GEORGES ROAD	Middlesex	North Brunswick Twp	227	17.1	Prop Loc - Dig Image	495845	583476	5,263.51	150	0					Outside Canvass	
	2800015044	Domestic	Yes	Permit	3/15/1985		Middlesex	North Brunswick Twp	142	15	Prop Loc - Hard Copy	499552	591504		200	10					Outside Canvass	
	2800015044	Domestic	Yes	Record	6/1/1985	1505 LIVINGSTON AVE	Middlesex	North Brunswick Twp	142	15	Prop Loc - Hard Copy	499552	591504		200	10					Outside Canvass	
	2800017525	Public Non-Community	Yes	Permit	8/25/1986		Somerset	Green Brook Twp	15	8	Prop Loc - Hard Copy	500045	588772		200	10					Sealed	
	2800017525	Public Non-Community	Yes	Record	9/13/1986	US HIGHWAY 22	Somerset	Green Brook Twp	15	8	Prop Loc - Hard Copy	500045	588772		200	0					Sealed	
	2800019275	Domestic	Yes	Permit	8/11/1987		Middlesex	East Brunswick Twp	310	76040	Prop Loc - Hard Copy	500511	581386		200	10					Outside Canvass	
	2800019275	Domestic	Yes	Record	8/17/1987	10 HILLCREST AVE	Middlesex	East Brunswick Twp	310	76040	Prop Loc - Hard Copy	500511	581386		600	5					Outside Canvass	
	2800021308	Domestic	Yes	Permit	8/26/1988		Middlesex	North Brunswick Twp	148	107	Prop Loc - Hard Copy	497417	586748		300	10					Outside Canvass	
	2800021308	Domestic	Yes	Record	9/21/1988	RT 130	Middlesex	North Brunswick Twp	148	107	Prop Loc - Dig Image	497907	584825	2,799.77	200	5					Outside Canvass	
	2800029770	Domestic	Yes	Permit	4/14/1992		Somerset	Franklin Twp	20	74	Prop Loc - Hard Copy	495406	589480		200	10					Outside Canvass	
	4800034891	Irrigation	Yes	Permit	11/7/1994	153 HARDENBURG LANE	Middlesex	East Brunswick Twp	310	60.01	Prop Loc - Hard Copy	503604	581367		100	5					Outside Canvass	
	4800038935	Irrigation	Yes	Permit	10/20/1995	205 HARDENBURG LANE	Middlesex	East Brunswick Twp	309.03	28.04	Prop Loc - Hard Copy	501515	584118		130	4					Outside Canvass	
	2800038527	Industrial	Yes	Record	7/19/1996	1735 JERSEY AVE	Middlesex	North Brunswick Twp	17	98	Prop Loc - Dig Image	494813	590221	6,629.17	300	0					Outside Canvass	
	4800040147	Irrigation	Yes	Permit	5/8/1997	32 FARRINGTON AVE	Middlesex	East Brunswick Twp	307.06	26.01,27	Prop Loc - Hard Copy	505688	588168		13	15					Outside Canvass	
	2800039966	Irrigation	Yes	Permit	4/4/1997	433 RIVA AVENUE	Middlesex	East Brunswick Twp	309.02	46	Prop Loc - Hard Copy	502598	582803		200	50					Outside Canvass	
	2800039966	Irrigation	Yes	Record	4/16/1997	433 RIVA AVENUE	Middlesex	East Brunswick Twp	309.02	46	Prop Loc - Hard Copy	502598	582803		195	50					Outside Canvass	
	2800031806	Industrial	Yes	Record	5/24/1993	1735 JERSEY AVE	Middlesex	North Brunswick Twp	17	98	Prop Loc - Dig Image	494813	590221	6,629.17	260	0					Outside Canvass	
PDF Document	2800031813	Industrial	Yes	Decommissioning	12/14/2018	1735 JERSEY AVENUE	Middlesex	North Brunswick Twp	17	98.01	GPS	494666	590881	6,898.61	540							

Table 3: Door to Door Survey

People Interviewed in 2010

Block	Lot	Name	Address	City	State	Person Interviewed	Well	Basement	
143	9	VELMAHOS ELENI	377 HALSEY ROAD	NORTHBRUNSWICK	NJ				
143	9	LARSEN PAMELA & COVINO NEYDA	387 HALSEY ROAD	NORTHBRUNSWICK	NJ				
221	12	JOHNSON JEFFREY	480 WOOD AVENUE	NORTHBRUNSWICK	NJ				
221	13	DAVIS MICHAEL L	470 WOOD AVENUE	NORTHBRUNSWICK	NJ				
221	14	DAVIS MICHAEL L	468 WOOD AVENUE	NORTHBRUNSWICK	NJ				
221	17	YARBOROUGH JEROME & ROBIN	432 WOOD AVENUE	NORTHBRUNSWICK	NJ				
221	18	LEBLANC STEVEN & LARA RICCIO	430 WOOD AVENUE	NORTHBRUNSWICK	NJ				
221	32.1	RICHARDSON NIVEN & LAZARA	438 WOOD AVENUE	NORTHBRUNSWICK	NJ				
227	21	LOGAN RICHARD & KELLEY L	386 WOOD AVENUE	NORTHBRUNSWICK	NJ		No		
227	22	CRUZ ADAM & ROMERO CLARISA	376 WOOD AVENUE	NORTHBRUNSWICK	NJ				
227	23	TAVATHIA VIRENDRA S & SUNITA	366 WOOD AVENUE	NORTHBRUNSWICK	NJ				
227	24.1	FARLEY WILLIAM & HELANA	352 WOOD AVENUE	NORTHBRUNSWICK	NJ		No		
227	24.2	KEELAN JOHN & CHARLENE	346 WOOD AVENUE	NORTHBRUNSWICK	NJ				
227	25.1	MC GEARY JAMES & MARY	342 WOOD AVENUE	NORTHBRUNSWICK	NJ		No		use concrete
227	25.2	MEAGHER JOHN & KATHLEEN	332 WOOD AVENUE	NORTHBRUNSWICK	NJ				
227	25.3	LIGUORI SALVATORE & NANCY ANN	322 WOOD AVENUE	NORTHBRUNSWICK	NJ				
227	29	LOGAN GEORGE E JR & ROSEMARIE	280 WASHINGTON PLACE	NORTHBRUNSWICK	NJ				
227	30	WEISSOCK WINFRED	268 WASHINGTON PLACE	NORTHBRUNSWICK	NJ				
Block	**Lot**	**Name**	**Address**	**City**	**State**	**Person Interviewed**	**Well**	**Basement**	
229	1	PIETROCOLA RICHARD M	470 CALVERT ROAD	NORTHBRUNSWICK	NJ				
229	9	PATEL MANJ & KRISHNA	458 CALVERT ROAD	NORTHBRUNSWICK	NJ				
229	11	BURTNICK ELLEN	456 CALVERT ROAD	NORTHBRUNSWICK	NJ				
229	12	CURCIO FRANK & MARIA	448 CALVERT ROAD	NORTHBRUNSWICK	NJ				
229	13	SHARIPOV ULMAS K & NASEROVA DILNOZA	442 CALVERT ROAD	NORTHBRUNSWICK	NJ		No		
229	14	OGLE GERALDINE	436 CALVERT ROAD	NORTHBRUNSWICK	NJ				
229	15	ENABLE INC	426 CALVERT ROAD	NORTHBRUNSWICK	NJ		No		
229	16	REDMOND JOSEPH	416 CALVERT ROAD	NORTHBRUNSWICK	NJ				
229	17	JDJ Realty Inc	1727 RT 130	NORTHBRUNSWICK	NJ		No	Wedding Center. Gerden State Community Bank. Gallery Salon	
229	18	JDJ Realty Inc	1727 RT 130	NORTHBRUNSWICK	NJ				
229	19	North Brunswick township	RT 130	NORTHBRUNSWICK	NJ			Wooded lot	
229	20	Ann & Fiore Lupo	RT 130	NORTHBRUNSWICK	NJ			Vacant bldg	
229	21.01	Ann & Fiore Lupo	1777 RT 130	NORTHBRUNSWICK	NJ			vacant lot	
229	22.01	Ann & Fiore Lupo	1777 RT 130	NORTHBRUNSWICK	NJ				
229	23	FORCIO FRANK J	431 WOOD AVENUE	NORTHBRUNSWICK	NJ				
229	24	RIVERA MARISOL	435 WOOD AVENUE	NORTHBRUNSWICK	NJ				
229	25	CRUZ ALFONSO & YOLANDA	439 WOOD AVENUE	NORTHBRUNSWICK	NJ		No		
229	26	PATEL TRUSHIL & SEEMA	445 WOOD AVENUE	NORTHBRUNSWICK	NJ				
229	27	REYES PATRICIO & DIAZ MARIA	449 WOOD AVENUE	NORTHBRUNSWICK	NJ				
229	29	MENDEZ ESTHER G	455 WOOD AVENUE	NORTHBRUNSWICK	NJ				
229	30	FAMA CATHERINE	465 WOOD AVENUE	NORTHBRUNSWICK	NJ				
229	31	BOMEDIANO ROBERTO & ESTHER	469 WOOD AVENUE	NORTHBRUNSWICK	NJ				
229	32	HORVATH ZOLTAN & GEORGIA	477 WOOD AVENUE	NORTHBRUNSWICK	NJ				
230	3	NAMMOUR GEORGE N & CHADIA	500 TAYLOR PLACE	NORTHBRUNSWICK	NJ				
230	4	TAUBENSLAG MICHAEL	496 TAYLOR PLACE	NORTHBRUNSWICK	NJ				
230	5	DUFFER JAMES & DALAL	486 TAYLOR PLACE	NORTHBRUNSWICK	NJ				
230	6	KATSCHMID GEORGE & WARHATIG LINDA	476 TAYLOR PLACE	NORTHBRUNSWICK	NJ				
Block	**Lot**	**Name**	**Address**	**City**	**State**	**Person Interviewed**	**Well**	**Basement**	
230	7	GARCIA MARIO & MARIA	464 TAYLOR PLACE	NORTHBRUNSWICK	NJ		No		
230	8	FITZPATRICK MARVIN & SHARON	454 TAYLOR PLACE	NORTHBRUNSWICK	NJ				
230	9	STEINMAN JEFFREY & MARCIA	444 TAYLOR PLACE	NORTHBRUNSWICK	NJ		No		
230	10	SALKIN J&R LEDERMAN LILA L/E	1694 MCKINLEY AVENUE	NORTHBRUNSWICK	NJ				
230	11	MATIAS JUAN	1680 MCKINLEY AVENUE	NORTHBRUNSWICK	NJ		No		
230	12	SCHACHNER JAIME D	1670 MCKINLEY AVENUE	NORTHBRUNSWICK	NJ				
230	13	TIRADO JOSEPH & GILBERT RAMZ	420 NIMITZ PLACE	NORTHBRUNSWICK	NJ				
230	14	BHUVANGE SHIVARAJ & GEETHA	414 NIMITZ PLACE	NORTHBRUNSWICK	NJ		No		
230	15	Lebedeva Santo c/o S. Childs (wooded lot)	RT 130	NORTHBRUNSWICK	NJ				
230	16	Calvert Associates, LLC = owner							
230	16	Friendly Rental	1709 RT 130	NORTHBRUNSWICK	NJ				
230	17	Friendly Rental	1709 RT 130	NORTHBRUNSWICK	NJ				
230	18	Restoration Christain Ministries	1709 RT 130	NORTHBRUNSWICK	NJ				
230	19	Committed Hands Child Care & Preschool	1709 RT 130	NORTHBRUNSWICK	NJ				
230	20	FEGGULIS SHIRLEY	431 CALVERT ROAD	NORTHBRUNSWICK	NJ				
230	21	GALLICHIO ANNA	435 CALVERT ROAD	NORTHBRUNSWICK	NJ				
230	22	WOO KWAKSING	439 CALVERT ROAD	NORTHBRUNSWICK	NJ				
230	23	CITRANIC EUGENE & DOROTHY C	445 CALVERT ROAD	NORTHBRUNSWICK	NJ				
230	24	HOPSON DENNIS	451 CALVERT ROAD	NORTHBRUNSWICK	NJ				
230	25	SPRINGSTEAD DANIEL & DEBORAH LE	459 CALVERT ROAD	NORTHBRUNSWICK	NJ				
230	27	BEYROUTY HOWARD	467 CALVERT ROAD	NORTHBRUNSWICK	NJ				
230	28	SCHWARZ RAYMOND & LORI	493 CALVERT ROAD	NORTHBRUNSWICK	NJ				
Block	**Lot**	**Name**	**Address**	**City**	**State**	**Person Interviewed**	**Well**	**Basement**	
231	1	SCHMITT CAROLE A	501 TAYLOR PLACE	NORTHBRUNSWICK	NJ				
231	29	ALEXANDER ANDREA	1699 ARTHUR AVENUE	NORTHBRUNSWICK	NJ				
231	30	GORDA RICHARD N & LISA A	1675 ARTHUR AVENUE	NORTHBRUNSWICK	NJ				
231	31	VEGA FRANK & MARITZA	493 TAYLOR PLACE	NORTHBRUNSWICK	NJ				
232	1	Richard Suec	473 Taylor Place	NORTHBRUNSWICK	NJ		No		
232	3	Angel & Gina Martinez	1668 Arthur Ave	NORTHBRUNSWICK	NJ				
232	2	CURRY ROBERT & LINDA	1678 ARTHUR AVENUE	NORTHBRUNSWICK	NJ				
232	4	KOLIAS GEORGE & GEORGIA	456 BEECHER PLACE	NORTHBRUNSWICK	NJ		No		
232	5	CURRY MARY	446 BEECHER PLACE	NORTHBRUNSWICK	NJ		No		
232	6	FISHERMAN RICHARD & BARBARA	1687 MCKINLEY AVENUE	NORTHBRUNSWICK	NJ				
232	7	REINHARDT RICKEY R	461 TAYLOR PLACE	NORTHBRUNSWICK	NJ				
233	4	COHEN CRAIG & SHARON	446 BARRYMORE PLACE	NORTHBRUNSWICK	NJ				
233	5	KASS CAROLE	1633 MCKINLEY AVENUE	NORTHBRUNSWICK	NJ				
233	5	LUBECK MARK & SUSAN R	1647 MCKINLEY AVENUE	NORTHBRUNSWICK	NJ				
233	7	LEVINE SUSAN LEE	451 BEECHER PLACE	NORTHBRUNSWICK	NJ		No		
233	8	SAVIN MICHAEL & DARCY	461 BEECHER PLACE	NORTHBRUNSWICK	NJ				
234	5	TYNES MAJETTE W & PATRICIA A	447 BARRYMORE PLACE	NORTHBRUNSWICK	NJ				
234	4	RUSSO LOUIS R & WF	1610 MCKINLEY AVENUE	NORTHBRUNSWICK	NJ				

People Interviewed in 2010 (continued)

Block	Lot	Name	Address	City	State	Person Interviewed	Well	Basement	
235	1	REMM DAVID F & MARY E	1629 MCKINLEY AVENUE	NORTH BRUNSWICK	NJ		No		
235	2	PINTO DAVID & JANET	1620 MCKINLEY AVENUE	NORTH BRUNSWICK	NJ				
235	3.01	Carrington Inn	1609 RT 130	NORTH BRUNSWICK	NJ	Stanley	No		
235	3.03	CRONIOS ALBERT & EILEEN	1600 MCKINLEY AVENUE	NORTH BRUNSWICK	NJ				
235	7	DEVITO JOSEPH & ALYCIA M	390 HALSEY ROAD	NORTH BRUNSWICK	NJ				
235	8.01	SOLIMAN MAHDOUH	370 HALSEY ROAD	NORTH BRUNSWICK	NJ				
235	8.02	DEMPSEY JOHN & BRENDA	360 HALSEY ROAD	NORTH BRUNSWICK	NJ				
235	8.04	Sandy Silver Inc Susan Chiles	RT 130	NORTH BRUNSWICK	NJ		unrelated lot		
235	9.03	Raceway Inc	1609 RT 130	NORTH BRUNSWICK	NJ		unrelated lot		
235	10	Sandy Silver Inc Susan Chiles	1645 RT 130	NORTH BRUNSWICK	NJ		unrelated lot		
235	11	LABARBERA SANTO C O CHILDS S	RT 130	NORTH BRUNSWICK	NJ		unrelated lot		
235	12	LABARBERA SANTO C O CHILDS S	407 NIMITZ PLACE	NORTH BRUNSWICK	NJ				
235	13	AGOSTO JOSE & LINDA	413 NIMITZ PLACE	NORTH BRUNSWICK	NJ		No		
262	111	LADRE ETHEL	253 WASHINGTON PLACE	NORTH BRUNSWICK	NJ				
262	112	TAKEUCHI KENICHIRO & KUDO REIKO	265 WASHINGTON PLACE	NORTH BRUNSWICK	NJ				
262	113	OUR LADY OF PEACE CHURCH	277 WASHINGTON PLACE	NORTH BRUNSWICK	NJ				
262	114	GONZALEZ LUIS & LUZ	276 HAMLIN ROAD	NORTH BRUNSWICK	NJ				
262	115	HOLIHAN SEAN & JILL	268 HAMLIN ROAD	NORTH BRUNSWICK	NJ				
278	1.01	AMEDURI CHRISTOPHER J & MICHELE	1670 KUNDES STREET	NORTH BRUNSWICK	NJ				
278	1	owner = Jacob Brauser							
278	1	Ideal Dry Cleaners	1674 RT 130	NORTH BRUNSWICK	NJ				
278	1	Quick Cut (convalesce store)		NORTH BRUNSWICK	NJ				
278	2	Ron & Amy Chenoeth	1670 RT 130	NORTH BRUNSWICK	NJ		No	No	
278	3	Rollins = new owner							
278	5	Thomas Carbone & Ulysses Gonzalez	1666 RT 130	NORTH BRUNSWICK	NJ		vacant house for sale		
Block	Lot	Name	Address	City	State	Person Interviewed	Well	Basement	
278	4	SAMATO JOSEPH & KATHLEEN	1660 KUNDES STREET	NORTH BRUNSWICK	NJ				
278	5	JQ & SR Associates LLC	1648 RT 130	NORTH BRUNSWICK	NJ		No	Yes	professional bldg
278	6	White Lion Inn Inc	1636 RT 130	NORTH BRUNSWICK	NJ	Fred	No	No	
278	7	White Lion Inn Inc	1636 RT 130	NORTH BRUNSWICK	NJ	Fred	No	No	
278	8.01	Jeremy Plaza LLC	1674 RT 130	NORTH BRUNSWICK	NJ	Elsie, dry cleaner	No	No	strip mall with dry cleaner & laundry
278	8.16	Lake Farrington Condo Associates	RT 130	NORTH BRUNSWICK	NJ		No	Yes	
278	8.04	Gable & Susan Macon	1595 Kearney Dr	NORTH BRUNSWICK	NJ				
278	8.05	Joseph & Alicia Adnuk	1605 Kearney Dr	NORTH BRUNSWICK	NJ				
278	8.06	Paul & Lois Scalia	1610 Kearney Dr	NORTH BRUNSWICK	NJ				
278	20	Charles & Mary Smith	1627 Miriam Drive	NORTH BRUNSWICK	NJ				
278	21	ZWICK DAVID & DENISE	395 MARSHALL ROAD	NORTH BRUNSWICK	NJ		No		
278	22	LETBETTER TIM & LAURA	361 MARSHALL ROAD	NORTH BRUNSWICK	NJ				
278	23	RODRIGUEZ HECTOR JR & ANNABELLE	1625 KEARNEY DRIVE	NORTH BRUNSWICK	NJ				
278	24	ORTIZ AUGUSTO & DE JESUS ANN DA	1635 KEARNEY DRIVE	NORTH BRUNSWICK	NJ				
278	25	JANCREK RAYMOND & DEANNA	1645 KEARNEY DRIVE	NORTH BRUNSWICK	NJ				
278	26	RUKA EUGENE & SYLKE	1655 KEARNEY DRIVE	NORTH BRUNSWICK	NJ				
278	27	Michael & Terry Baer = owner							
278	27	STRASZEWSKI EDWARD & JULIA	1665 KEARNEY DRIVE	NORTH BRUNSWICK	NJ				
278	28	CONLIN MARK J & KATHLEEN M	1660 KUNDES STREET	NORTH BRUNSWICK	NJ				
278	29	SCOVELL THOMAS	304 HAMLIN ROAD	NORTH BRUNSWICK	NJ				
278	30	SCOVELL THOMAS	304 HAMLIN ROAD	NORTH BRUNSWICK	NJ		No		
278	31	HEILER KATHERINE P	294 HAMLIN ROAD	NORTH BRUNSWICK	NJ		No		
278	32	ADLTAS MICHAEL & DISCAVIO STEPHANIE	287 WASHINGTON PLACE	NORTH BRUNSWICK	NJ				
278	33	SAVAGE BETSY	305 WASHINGTON PLACE	NORTH BRUNSWICK	NJ				
278	34	Ramesh & Sunita Doarai = new owner							
278	34	GASSARO JAMES V JR & KATHERN J	313 WASHINGTON PLACE	NORTH BRUNSWICK	NJ				
278	35	RAVENS JUAN R & LUCILLE	321 WASHINGTON PLACE	NORTH BRUNSWICK	NJ		No	Yes concrete	
Block	Lot	Name	Address	City	State	Person Interviewed	Well	Basement	
269	1	KONDRIKOV NIKOLAY & KONDRIKOVA T	275 HAMLIN ROAD	NORTH BRUNSWICK	NJ				
Block	Lot	Name	Address	City	State	Person Interviewed	Well	Basement	
260	1	AHN SANG WOOK & JUNG	303 HAMLIN ROAD	NORTH BRUNSWICK	NJ				
260	2	MAOUF RICHARD & MAELYN N	302 MARSHALL ROAD	NORTH BRUNSWICK	NJ				
260	3	Ronald & Pamela Deemer	686 Marshall Rd	NORTH BRUNSWICK	NJ				
277	4	LOPEZ AMADO & LOUISE	293 HAMLIN ROAD	NORTH BRUNSWICK	NJ		No	Yes concrete	
260	1	North Brunswick Golf	1696 RT 130	NORTH BRUNSWICK	NJ				
261	2	Thomas & Ana Cheeves	359 Washington Place	NORTH BRUNSWICK	NJ		No		fire burnt lot
260	3	ZHANG RONGHUI	1660 KUNDES STREET	NORTH BRUNSWICK	NJ		No		
262	4	CASSELLA DAVID	335 WASHINGTON PLACE	NORTH BRUNSWICK	NJ		No	Yes	
262	5	CHEPES THOMAS & ANA	359 WASHINGTON PLACE	NORTH BRUNSWICK	NJ		No	apparents have basement	
263	1	Getty Service Station	1710 Rt 130	NORTH BRUNSWICK	NJ		No		
263	1	Enterprise Rent a Car & Carwash	1710 Rt 130	NORTH BRUNSWICK	NJ				
263	2	LUZICK DENISE	368 WASHINGTON PLACE	NORTH BRUNSWICK	NJ		yes abandon	yes with sump	
263	3	ALONTE JORGE & HASUM ROXANA	360 WASHINGTON PLACE	NORTH BRUNSWICK	NJ			concrete basement	
263	4.01	Tal J George = new owner							
263	4.01	MATTEI RICHARD J & MARY M	356 WASHINGTON PLACE	NORTH BRUNSWICK	NJ			concrete basement	
263	4.02	PATEL RAVINDRA & KAVITHA	333 HARDING AVENUE	NORTH BRUNSWICK	NJ				
263	5	Ramos Family Partnership = new owner							
263	6	Giovanni & Dolores Perrino retrieve vent for lot 11	Harding Ave	NORTH BRUNSWICK	NJ				
Block	Lot	Name	Address	City	State	Person Interviewed	Well	Basement	
264	1	MORBIT BRUCE & JOANNE	321 HARDING AVENUE	NORTH BRUNSWICK	NJ				
264	2	DEVELOPMENTAL DISABILITIES ASSOC. NJ	330 WASHINGTON PLACE	NORTH BRUNSWICK	NJ				
264	3.01	AHN SANG WOOK & JUNG JA	320 WASHINGTON PLACE	NORTH BRUNSWICK	NJ				
264	3.02	SCHENKEL STEVEN A & STACY	311 HARDING AVENUE	NORTH BRUNSWICK	NJ		No		
264	4	WILCOX JOHN & MARGARET	310 WASHINGTON PLACE	NORTH BRUNSWICK	NJ				
264	5	SCHERMANN WILLIAM & DOROTHY	298 WASHINGTON PLACE	NORTH BRUNSWICK	NJ				
264	6	CRALLEY STEVEN & MARGARET	297 HARDING AVENUE	NORTH BRUNSWICK	NJ		No	Yes concrete	
265	1	Our Lady Of Peace Church	Miriam	NORTH BRUNSWICK	NJ		Pastor John		
266	1	Our Lady Of Peace Church	1720 Rt 130				Pastor John	Abandon	
267	1	GOMBOS LOUIS & HELEN	360 WOOD AVENUE	NORTH BRUNSWICK	NJ				
267	4	TONSENE ALBERT J & FRANCIS S	360 PERSHING AVENUE	NORTH BRUNSWICK	NJ		No		
267	5	SCHACK JOHN A JR & ELIZABETH M	352 PERSHING AVENUE	NORTH BRUNSWICK	NJ				
267	6	ROMAN ROBINSON & MIRSA	347 WOOD AVENUE	NORTH BRUNSWICK	NJ		No	Yes concrete	
267	7	JAMISON HARRIS & MARY LOU	359 WOOD AVENUE	NORTH BRUNSWICK	NJ				
267	8	PATEL KALA	367 WOOD AVENUE	NORTH BRUNSWICK	NJ		No		
267	9	TRUCKSESS JAMES S & LIZ A	377 WOOD AVENUE	NORTH BRUNSWICK	NJ		No	Yes concrete	
268	1	RUAS LAZAROS & CHRISOULA	310 WOOD AVENUE	NORTH BRUNSWICK	NJ				
268	2	BRSHENEY JAMES & PATRICIA	1754 KUNDES STREET	NORTH BRUNSWICK	NJ				
268	3	KOCIA GEORGE SR & CAROL DONATELLO	302 WOOD AVENUE	NORTH BRUNSWICK	NJ		No	No	
268	4	Thomas & Ana Cheeves	1754 Miriam	NORTH BRUNSWICK	NJ				

Table 3: Door to Door Survey
List of Residence Lettes Where Sent to on 4/18/18 to Complete Door to Door Survey

Block	Lot	Name	Address	City	State	Comment	Received letter back	Well	Basement	sent letter to on 4/18/18	Owner Address if Different
230	16	Calvert Associates, LLC = owner of 1709 RT 130	PO BOX 1021	Mt Laurel	NJ		received letter bacck no well			sent letter to owner on 4/18/18	PO Box 1021 Mt. Laurel, NJ 08054
230	16	Resident	1709 RT 130	NORTHBRUNSWICK	NJ						
278	1.01	AMEDURI CHRISTOPHER J & MICHELE	1675 KUNDES STREET	NORTHBRUNSWICK	NJ		received letter back no well: wants an update			sent letter to owner on 4/18/18	18 Mulberry Lane Edison NJ 08820
278	1	Krauser Family LLC owner of 1674 Rt 130	18 Mulberry Lane	Edison	NJ		received letter back no well			sent letter to tenant on 4/18/18	
278	1	Resident/Tenant	1674 RT 130	NORTHBRUNSWICK	NJ						
278	2	Roy & Amy Chereath = owner of 1670 Rt 130	2 Jumping Brook	Monroe	NJ			No	No	sent letter to owner & tenant on 4/18/18	2 Jumping Brook Monroe NJ 08831
278	2	Resident	1670 RT 130	NORTHBRUNSWICK	NJ						
278	3	Kolluru = new owner of 1660 Rt 130	4 Eddington Lane	Monroe	NJ					sent letter to owner & tenant on 4/18/18	
278	3	Resident	1660 RT 130	NORTHBRUNSWICK	NJ			vacant house for sale			
278	4	DAMATO JOSEPH & KATHLEEN	1665 KUNDES STREET	NORTHBRUNSWICK	NJ					sent letter to owner on 4/18/18	
278	25	JANCSEK RAYMOND & DEANNA	1645 KEARNEY DRIVE	NORTHBRUNSWICK	NJ		received letter back no well			sent letter to owner on 4/18/18	
278	26	RUKA EUGENE & SYLKE	1655 KEARNEY DRIVE	NORTHBRUNSWICK	NJ					sent letter to owner on 4/18/18	
278	27	Michael & Terry Beer = new owner	1665 KEARNEY DRIVE	NORTHBRUNSWICK	NJ	no longer lives here. New owner isThakkur.	received letter back no well			sent letter to owner on 4/18/18	
278	28	CONLIN MARK J & KATHLEEN M	1680 KUNDES STREET	NORTHBRUNSWICK	NJ		received letter back no well			sent letter to owner on 4/18/18	
278	29	SCOVELL THOMAS	304 HAMLIN ROAD	NORTHBRUNSWICK	NJ		received letter back no well			sent letter to owner on 4/18/18	
278	34	Rakesh & Susila Dogral = new owner	313 WASHINGTON PLACE	NORTHBRUNSWICK	NJ					sent letter to owner on 4/18/18	
278	35	RAVENS JUAN R & LUCILLE	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ			No	Yes concrete	sent letter to owner on 4/18/18	
282	3	Mendizabal Maynor = owner of 1685 Kundes St	1 Duer Lane	Statten Island	NY					sent letter to owner & tenant on 4/18/18	
282	3	ZHANG RONGHUI: resident	1685 KUNDES STREET	NORTHBRUNSWICK	NJ			No			
283	4.01	Tal J George = new owner	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ					sent letter to owner on 4/18/18	
283	4.02	PEDDI RAVINDRA & KAVITHA	333 HARDING AVENUE	NORTHBRUNSWICK	NJ					sent letter to owner on 4/18/18	
283	5	Pernice Family Partnership = new owner of Harding Ave	15 Brittanu Way	Kendall Park	NJ		received letter back no well			sent letter to owner & tenant on 4/18/18	15 Brittany Way Kendall, NJ 08824
283	5	Pernice Family Partnership/Resident	Harding Ave	NORTHBRUNSWICK	NJ		returned to sender				
284	1	MORBIT BRUCE & JOANNE	321 HARDING AVENUE	NORTHBRUNSWICK	NJ		received letter back no well			sent letter to owner on 4/18/18	
284	2	DEVELOPMENTAL DISABILITIES ASSOC NJ = owner of 330 Washington Place	40 Woodbridge Ave	Seawaren	NJ					sent letter to owner & tenant on 4/18/18	40 Woodbridge Ave Seawaren, NJ 07077
284	2	Resident	330 WASHINGTON PLACE	NORTHBRUNSWICK	NJ						
284	3.01	AHN SANG WOOK & JUNG JA	320 WASHINGTON PLACE	NORTHBRUNSWICK	NJ					sent letter to owner on 4/18/18	

Subject: **RE: Land use change question 7-24-18**
Date: 7/24/2018 2:04:47 PM Eastern Standard Time
From: Jlarkin@northbrunswicknj.gov
To: onsitefj@aol.com
Cc: Tvigna@northbrunswicknj.gov

Good Afternoon Mr. Jasiulewicz,

I just reviewed the land use changes that the planning board recently recommended to the Governing Body and I do not see anything for that site.

By copy of this e-mail I am asking Tom Vigna, Township Planner, to double check his records and respond as well in case I'm missing something.

Please let me know if we can be of any further assistance,

Janice

Janice A. Larkin,
Office of Mayor Womack
Township of North Brunswick
710 Hermann Road
North Brunswick, NJ 08902
732 247 0922 x201
fax 732 545 8774

From: onsitefj@aol.com [mailto:onsitefj@aol.com]
Sent: Tuesday, July 24, 2018 1:24 PM
To: Janice Larkin
Subject: Land use change question 7-24-18

Can you tell me if there any land use changes planned with 200 ft of block 282 Lot 1 which is located at 1696 Georges Rd in North Brunswick? I am doing a receptor evaluation for the North Brunswick Gulf station located at that address?

Frank Jasiulewicz, PG, SSE, LSRP
On-Site Environmental, Inc.
119 Shepherds Way
Coatesville, Pa. 19320
Phone: 610-384-2719
Fax: 610-384-2709

Subject: **RE: Land use change question 7-24-18**
Date: 7/24/2018 3:09:37 PM Eastern Standard Time
From: Tvigna@northbrunswicknj.gov
To: Jlarkin@northbrunswicknj.gov, onsitefj@aol.com

I have reviewed this location against the recent changes, and there are no zoning changes within 200 feet of this property.

Tom Vigna

From: Janice Larkin
Sent: Tuesday, July 24, 2018 2:05 PM
To: 'onsitefj@aol.com'
Cc: Thomas Vigna
Subject: RE: Land use change question 7-24-18

Good Afternoon Mr. Jasiulewicz,

I just reviewed the land use changes that the planning board recently recommended to the Governing Body and I do not see anything for that site.

By copy of this e-mail I am asking Tom Vigna, Township Planner, to double check his records and respond as well in case I'm missing something.

Please let me know if we can be of any further assistance,

Janice

Janice A. Larkin,
Office of Mayor Womack
Township of North Brunswick
710 Hermann Road
North Brunswick, NJ 08902
732 247 0922 x201
fax 732 545 8774

From: onsitefj@aol.com [mailto:onsitefj@aol.com]
Sent: Tuesday, July 24, 2018 1:24 PM
To: Janice Larkin
Subject: Land use change question 7-24-18

Can you tell me if there any land use changes planned with 200 ft of block 282 Lot 1 which is located at 1696 Georges Rd in North Brunswick? I am doing a receptor evaluation for the North Brunswick Gulf station located at that address?

Frank Jasiulewicz, PG, SSE, LSRP
On-Site Environmental, Inc.
119 Shepherds Way
Coatesville, Pa. 19320
Phone: 610-384-2719
Fax: 610-384-2709

Subject: **FW: Land use change question**
Date: 7/24/2018 3:02:33 PM Eastern Standard Time
From: Mhritz@northbrunswicknj.gov
To: onsitefj@aol.com

There are no land use changes proposed within this area.

Michael C. Hritz, Director
Department of Community Development
710 Hermann Road
North Brunswick, NJ 08902

Phone: 732-247-0922 x440
Fax: 732-289-3822

From: onsitefj@aol.com [mailto:onsitefj@aol.com]
Sent: Tuesday, July 24, 2018 1:42 PM
To: TWPNBcommdev
Subject: Land use change question

Can you tell me if there any land use changes within 200 ft of Block 282 Lot 1 located at 1696 Georges Rd in North Brunswick. I am doing a receptor evaluation for the North Brunswick Gulf station located at that location. A map showing the sites within 200 ft of that that location is attached. Thanks in advance.

Frank Jasiulewicz, PG, SSE, LSRP
On-Site Environmental, Inc.
119 Shepherds Way
Coatesville, Pa. 19320
Phone: 610-384-2719
Fax: 610-384-2709

Subject: **RE: Land use change question**
Date: 7/24/2018 2:05:53 PM Eastern Standard Time
From: Mproietti@northbrunswicknj.gov
To: onsitefj@aol.com

The North Brunswick Planning Board and Governing Body just recently completed their 10 year reexamination of the Master Plan including 16 different areas town wide which had a zoning change. The area that you are inquiring about was NOT an area where there were any land use changes.

Michael Proietti
Zoning/Housing/Code Enforcement Official
North Brunswick Community Development - Deputy Director

From: onsitefj@aol.com [mailto:onsitefj@aol.com]
Sent: Tuesday, July 24, 2018 1:42 PM
To: TWPNBcommdev
Subject: Land use change question

Can you tell me if there any land use changes within 200 ft of Block 282 Lot 1 located at 1696 Georges Rd in North Brunswick. I am doing a receptor evaluation for the North Brunswick Gulf station located at that location. A map showing the sites within 200 ft of that that location is attached. Thanks in advance.

Frank Jasiulewicz, PG, SSE, LSRP
On-Site Environmental, Inc.
119 Shepherds Way
Coatesville, Pa. 19320
Phone: 610-384-2719
Fax: 610-384-2709

Justification for Not Collecting Soil Gas Samples

Soil gas samples were not collected at the Csepese residence at 359 Washington place due to a high water table. Also the owner (Mr. Csepes) would not allow for the installation of soil gas probes because he stated his basement floor gets damp at times. Indoor air samples have been collected at the Csepes residence on two occasions and a complete pathway was not identified.

A vapor intrusion investigation was not conducted at the onsite building at the North Brunswick Gulf site because the facility uses the chemical of concern in its operations. The facility sells gasoline and performs automobile repair services. A deed notice will be used to address the vapor intrusion pathway at that location to ensure public health will be protected in the future if the land use or facility operations change. Also soil gas samples were not collected because a wet clay exist at a depth of four feet beneath the concrete slab and the concrete slab has been observed to sweat significantly at times, which implies the capillary fringe may be in contact with the concrete slab.

Soil gas samples were also not collected at the convenience store located at 1674 RT 130 to the east of the site. To evaluate the VI pathway at the adjacent property On-Site contacted the LSRP on record for the 1674 RT 130 site (which has a PCE problem) and secured summary tables and sample location figures of sub-slab soil gas samples collected at the convenience store. That data indicated the only compounds above the standards were PCE and TCE and that the concentrations of gasoline related compounds were below the sub-slab soil gas samples, therefore, the LSRP on record for the North Brunswick Gulf site concluded the VI pathway at that location is not complete and further VI investigations at that location will not be required. **Appendix J** in the RIR shows the locations of the soil gas samples and presents a summary of the results.

Rt 130
Grass
Gravel
Paved Shoulder
Turning Lane
Grass Medium
Shoulder of Road
Traffic Light
Gas Line
Sewer Line
Water Line
Washington Place
Getty Station
Driveway
Key
Regional Direction of Groundwater Flow
N
0'
35'
Approximate scale in feet
F10
F7
F8
F9
F1
F2
F14
F11
F12
F13
F4
F16
F3
F24
F18
F17
F15
F19
F5
F23
F20
F22
F21
F6
MW 16
MW 13
MW 3
MW 4
MW 9
MW 10
MW 2
MW 6
MW 1
MW 5
MW 15
MW 14
MW 7
MW 8
MW 12
MW 11
AOC 1 & 2
AOC 2
AOC 3
North Brunswick Gulf Station
Concrete Over New Tanks
Diesel Fuel Dispenser
Pump Islands with Canopy
Approximate local of old pump island
Asphalt patch
Heating Oil AST
Waste Oil AST
asphalt
One Story Masonary Building
Quick Out Convience Store
Propane Tank Area
Valet Dry Cleaners
359 Washington Place
Property of Denice Luzack
368 Washington Place
Extent of Groundwater Impacts
Property Boundary
Guard Rail
Fence
Shed
Stone
Storm Drain
Swail
Test Pit1
Test Pit2
Test Pit4
Test Pit6
TB1
TB2
TB3
TB4
TB5
TB6
TB7-1
TB-7V
TW1
TW2
TW3
TW4
TW16-1
TW16-2
RW1
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
SW13
SW14
SW15
SW16
G1
G2
G3
N1
N2
N2-V
N3
N3-1
N4
N5
N6
N7-1
N7-2
N7-3
N7-V
N7
N8
N9
N10
N10-S
N11
N12
N13
N13-V
N13-1
N13-2
N14
N15
N16
D1
D2
D3
D4

KEY

- MW 6 Monitoring Well & #
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R Residential house
- Tree
- F7 Soil Boring Installed by RedHawk 2008 & 2009
- N12 Soil Boring Installed by RedHawk in 2001 & 2002
- Soil Boring Installed by Whitman in 2004
- UST Closure Sample 2002
- Extent of Excavation in 2001/2002

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709
Drawing #:
File : AOC map.drw
Date 1/20/12

Figure 1 Areas of Concern

North Brunswick Gulf
1696 Georges Road RT 130
Middlesex County
North Brunswick, New Jersey 08902

Case Name:	Lawrence Fuel LLC	IMPORTANT:	1) Do not delete or copy and paste across multiple columns because it can disrupt hidden equations															
PI #:	010180		2) If pasting from a Word document, use the Paste option: **Match Destination Formatting**															
			3) If the text turns red you have exceeded the character limit for that column															
Case Inventory Document Version 1.4 02/23/17																		

AOC ID	AOC Type	AOC Description	Confirmed Contamination	AOC Status	Status Date	Incident #	DEP AOC Number	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
AOC 1	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Current UST Field: 1/12,000 gallon unleaded gasoline; 1/6,000 gallon unleaded gasoline; 1/6,000 gallon diesel (tank 5,6,7) and Former USTs: 4/6,000 gallon unleaded gasoline in same location as current USTs removed in 2001 (tank 1,2,3,4)	Yes	RI	10/31/2019	01-08-30-1546-07,01-08-30-1549-55		Mixed Media	VO+ Metals			Remediation Standards	Ground Water	Inhalation	Excavation	Pump & haul	Pump & Treat		Soil and groundwater delinlation has been completed. Impacts from release at AOC 1 remediated in 2001/2002. Impacts in vicinity of AOC 1 believed to be from AOC 2. Curent groundwater impacts at AOC 1 likely due to impacts from AOC 2 included VOC and VOC and BN TICs. Lead in soil downgradient of AOC 1 not above background level of 233 mg/kg. PCE at 1.8 ug/l only detected in last set of samples downgradient of AOC 1. PCE horizontally defined and presence needs to be confirmed. RAW needs to be prepared to adress soil and groundwter impacts in vicinity of AOC 1 from AOC 2 and determine presence/absence of PCE.
AOC 2	Storage tank and appurtenance - State or Federal Regulated underground storage tank	Old Pump Island Remover 1998/1999	Yes	RI	10/31/2019			Mixed Media	VO			Remediation Standards	Ground Water	Inhalation					Soil and groundwater delinlation has been completed and extends to vicinity of AOC 1. VOCs in soil above standards. VOCs, 2-metylnalthalene and SVOC TICs above GWQS. Benzene above VIGWSL within 30 feet of onsite building used as gasoline service station. VI pathway at onsite building not investigated but recommended VI pathway at onsite building be addressed by deed notice. RAW needs to be prepared.
AOC 3	Other areas of concern - Any area suspected of containing contaminants	Lead in soil behind building at depth of 3 to 4 ft. Source unknown.	Yes	RI	10/31/2019			Soil	Metals			Remediation Standards	Ingestion/Dermal						Soil and groundwater delinlation for lead has been completed. Lead was only above NRDCSRS in 1 out of 152 samples. Compliance averaging indicates lead is compliant to NRDCSRS but not the RDCSRS for soil 2 feet and deeper. Impact area above NRDCSRS is very small. Groundwater below GWQS. Deed notice to restrict the site to non-residential recommended.
AOC 4	Storage tank and appurtenance - Unregulated underground storage tank	1/550 gallon unregulated heating oil UST closed-in-place	No	RI	10/31/2019			None	Not Applicable			Remediation Standards							2016 - GPR survey conducted to locate UST. Soil has been investigated and is below the soil standards. VOC and SVOC impacts in groundwater in the vicinity of this AOC is related to releases from other AOCs. No remediation required.
AOC 5	Storage tank and appurtenance - Above ground storage tank	1/275 gallon heaing oil AST	No	RI	10/31/2019			None	Not Applicable			Remediation Standards							Soil has been delineated and is below the soil standards. VOC and SVOC impacts in groundwater at this AOC is related to releases from other AOCs. No remediation required.
AOC 6	Storage tank and appurtenance - Above ground storage tank	1/275 gallon waste oil and 1/275 heating oil AST on concrete pad	Yes	RI	10/31/2019	19-05-08-1010-08		Mixed Media	PAHs	Metals		Remediation Standards	Ground Water	Ingestion/Dermal					Surface spillage near the waste oil AST has impacted the surface and subsurface soil with EPH, PAHs and metals above the soil and ecological standards. Soil erosion to onsite storm drains and drainage ditch that outfalls to local storm drain system has occurred. Ecological evaluation indicated no further ecological evaluation required. Soil erosion to storm drains and drainage ditch should be controlled. Naphthalene, 2-methylnaphthalene and SVOC TICs above GWQS. RAW needs to be prepared to address soil and groundwater impacts and erosion to drainage ditch.
AOC 7	Drainage system and area - Storm sewer collection system	Two 2x4x2 foot storm drains located behind onsite building	Yes	RI	10/31/2019	19-05-08-1010-08		Soil	PAHs	Metals		Remediation Standards	Overland Flow	Ingestion/Dermal					Soil impacts of PAH and metals in storm drain likely from surface spillage at AOC 6 via erosion. Soil impacts above soil and ecological standards. Impacted soil can migrate to AOC 8 drainage ditch. RAW needs to be prepared.
AOC 8	Drainage system and area - Drainage swale and culvert	Drainage ditch that receives run offlerosion from AOC 7	Yes	RI	10/31/2019	19-05-08-1010-08		Soil	EPH + PAHs	Metals		Remediation Standards	Overland Flow	Ground Water & Surface Water					PAH, metals and EPH above soil and ecological standards. Ecological evaluation indicated no further ecological evaluation required but recommended soil in drainage ditch should be maintained. RAW needs to be prepared to eliminate erosion to local storm drain system.
AOC 9	Drainage system and area - Building floor drain and piping	Two former floor drains	No	RI	10/31/2019			None	Not Applicable			Remediation Standards							Floor drains located close to former hydraulic lifts = AOC 10. Impacts in soil (EPH, PAH and benzene) likely due to release from AOC 10. Floor drains located within VOCs and SVOC groundwater plume from releases at other AOCS. No remediation required due to floor drains.
AOC 10	Other areas of concern - Any area suspected of containing contaminants	Three former hydraulic lifts	Yes	RI	10/31/2019	19-05-08-1010-08		Mixed Media	BN	VO	EPH	Remediation Standards							VOCs, 2-methylnaphthalene, PAHs & EPH above soil standards at western most former lift. Lifts located within VOC and SVOC groundwater plume. RAW needs to be prepared.
AOC 11	Discharge and disposal area - Waste water treatment systems/septic/seepage pit/dry well	Former septic system	Yes	RI	10/31/2019	19-05-08-1010-08		Mixed Media	VO	EPH + PAHs	Metals	Remediation Standards							Former septic field located during boring installations and was likely a dry well and near AOC 6. VOCs, PAHs, lead and EPH above soil standards and comingled with impacts from AOC 6. Groundwater impacted with VOCs, naphthalene, 2-methylnaphthalene and SVOC TICs. RAW needs to be prepared.
AOC 12	Other areas of concern - Hazardous substance storage or handling area	Former Safety Kleen parts cleaning basin	No	RI	10/31/2019			None	Not Applicable										2002 - Site had a parts cleaning basin. August 2016 - Basin no longer in building. No signs of cracks in concrete floor where basin was located. No remediation required.
AOC 13	Environmental media - Media Ground water	Groundwater with concentrations of VOCs, SVOCs and metals above standards. Metals not related to discharges at site.	Yes	RI	10/31/2019			Ground Water	VO + BN			Remediation Standards	Ground Water	Inhalation					Twenty one wells installed to define groundwater plume. Groundwater impacts off site. CEA submitted with RIR. RAW needs to be prepared. MNA will likely be proposed for remediation of groundwater.
AOC 14	Environmental media - Media Soil, including soil vapor pore spaces	Soil with concentrations of VOCs, SVOCs and metals above standards.	Yes	RI	10/31/2019			Soil	VO + BN	Metals	EPH	Remediation Standards	Ingestion/Dermal						110 borings installed to define soil impacts. Impacts defined. Benzene and PAHs above RDCSRS. Napthalene is above RDCSRS offsite under Rt 130. Compliance averaging indicated that arsenic, manganese and lead is compliant to the NRDCSRS. RAW needs to be prepared.

Appendix I

Public Notification

2012

2015

2017

2019

New Jersey Department of Environmental Protection
Site Remediation Program

PUBLIC NOTIFICATION AND OUTREACH
☐ Non-LSRP (Existing Cases) ☒ LSRP ☐ Subsurface Evaluator

Date Stamp
(For Department use only)

SECTION A. SITE LOCATION

Site Name: N orth Brunswick Gulf

List all AKAs:

Street Address: 1696 Georges Road

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Mailing Address if different than street address:

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-301546-07

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2: 08/30/2001

State Plane Coordinates for a central location at the site: Easting: 500229 Northing: 586425

Municipal Block(s) and Lot(s):

Block #	282	Lot #	1	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NOTIFICATION INFORMATION

1. Indicate the type of Public Notification:
   ☒ Initial ☐ Update
2. Public notification was provided via: (Check all that apply)
   Sign ☐ Yes ☐ No Fact sheet ☒ Yes ☐ No
   Letter ☒ Yes ☐ No Alternate plan ☐ Yes ☐ No
3. Were materials produced in a language other than English? ☐ Yes ☒ No
   If "Yes," in what other language was notification prepared? _____
4. Were copies provided to municipal clerk, local/county health dept., and local health agency? ☒ Yes ☐ No
5. Did you provide an electronic copy of all required submittals? ☒ Yes ☐ No
6. Was notification of excess fill material conducted pursuant to N.J.A.C. 7:26E-1.4(k)? ☐ Yes ☒ No
7. Was additional public outreach conducted due to the Department's determination of substantial public interest? ☐ Yes ☒ No

SECTION C. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: North Brunswick Gulf, Inc.

Representative First Name: Walter Representative Last Name: Lapp

Title: President

Phone Number: Ext: Fax:

Mailing Address: 1696 Georges Road Rt 130

City/Town: North Brunswick State: New Jersey Zip Code: 08902

Email Address:

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Walter Lapp Sr. Date: 1-4-12

Name/Title: Walter Lapp Sr. / President **No Changes Since Last Submittal** ☒

SECTION D. NON-LSRP SITE REMEDIATION PROFESSIONAL STATEMENT

First Name: _____ Last Name: _____

Phone Number: _____ Ext: _____ Fax: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Email Address: _____

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

Signature: _____ Date: _____

Name/Title: _____ **No Changes Since Last Submittal** ☐

Company Name: _____

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION D. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 519420

First Name: Frank Last Name: Jasiulewicz

Phone Number: (610) 384-2719 Ext: Fax: (610) 384-2709

Mailing Address: 119 Shephers Way

City/Town: Coatesville State: Pa. Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☒ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Frank Jasiulewicz Date: 2-20-12

LSRP Name/Title: Frank Jasiulewicz/President **No Changes Since Last Submittal** ☒

Company Name: On-Site Environmental, Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION D. SUBSURFACE EVALUATOR UST REPORT CERTIFICATION FORM

Certification by the Subsurface Evaluator:

I certify under penalty of law that the work was performed under my oversight and I have reviewed the report and all attached documents, and the submitted information is true, accurate and complete in accordance with the requirements of N.J.A.C. 7:14B and N.J.A.C. 7:26E. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information including fines and/or imprisonment.

Name: _____ UST Cert. No.: _____

Firm: _____ Firm's UST Cert. Number: _____

Firm Address: _____

City/Town: _____ State: _____ Zip Code: _____

Phone Number: _____ Ext: _____ Fax: _____

Signature: _____ Date: _____

No Changes Since Last Submittal ☐

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

Sensitive Population & Resource Checklist

1. Name, Address, Telephone and Email of Person Responsible for Conducting the Remediation

   Mr. Walter Lapp Sr.
   1696 Georges Road
   North Brunswick, New Jersey 08902

2. Site Name, Address, Municipality and County, Tax block and lot number(s)

   North Brunswick Gulf
   1696 Georges Road RT 130
   Middlesex County
   North Brunswick, NJ 08902
   Block: 282
   Lot 1

3. A list of any Site Identifiers, as applicable: a) Program Interest name and number (Preferred ID#) b) ISRA ID Number, c) Case Number or Incident Report Number, d) UST Registration Number, or e) Date of each No Further Action (NFA) letter for the site

   PI #: 010180
   NJDEP Case #: 01-08-30-1546-07
   UST # : 0101800

4. Municipal Contact and contact information

   Lisa Russo, Municipal Clerk, North Brunswick
   North Brunswick Municipal Building
   710 Hermann Road
   North Brunswick, NJ 08902
   732-247-0922

5. NJDEP Case manager

   Mohammad Queshi (BSCM) 609-984-4892

Check below all sensitive populations and resources that are located within 200 feet of the property boundary, and attach supporting information.

- [X] Residences: list addresses
  See **Table 1** for list of properties within 200 feet of site.
- [ ] Potable wells: list potable wells and their location
- [ ] Public and private schools that teach students in any of the grades kindergarten through twelve
- [ ] Child care facilities: list names and addresses
- [ ] Public parks and playgrounds: list names and addresses
- [ ] Surface water bodies: list names and locations
- [ ] Tier 1 well-head protection areas: see attached map for location
- [ ] Environmental Justice Petition neighborhoods
- [ ] Languages other than English predominantly spoken by property owners and tenants: list alternative language(s)

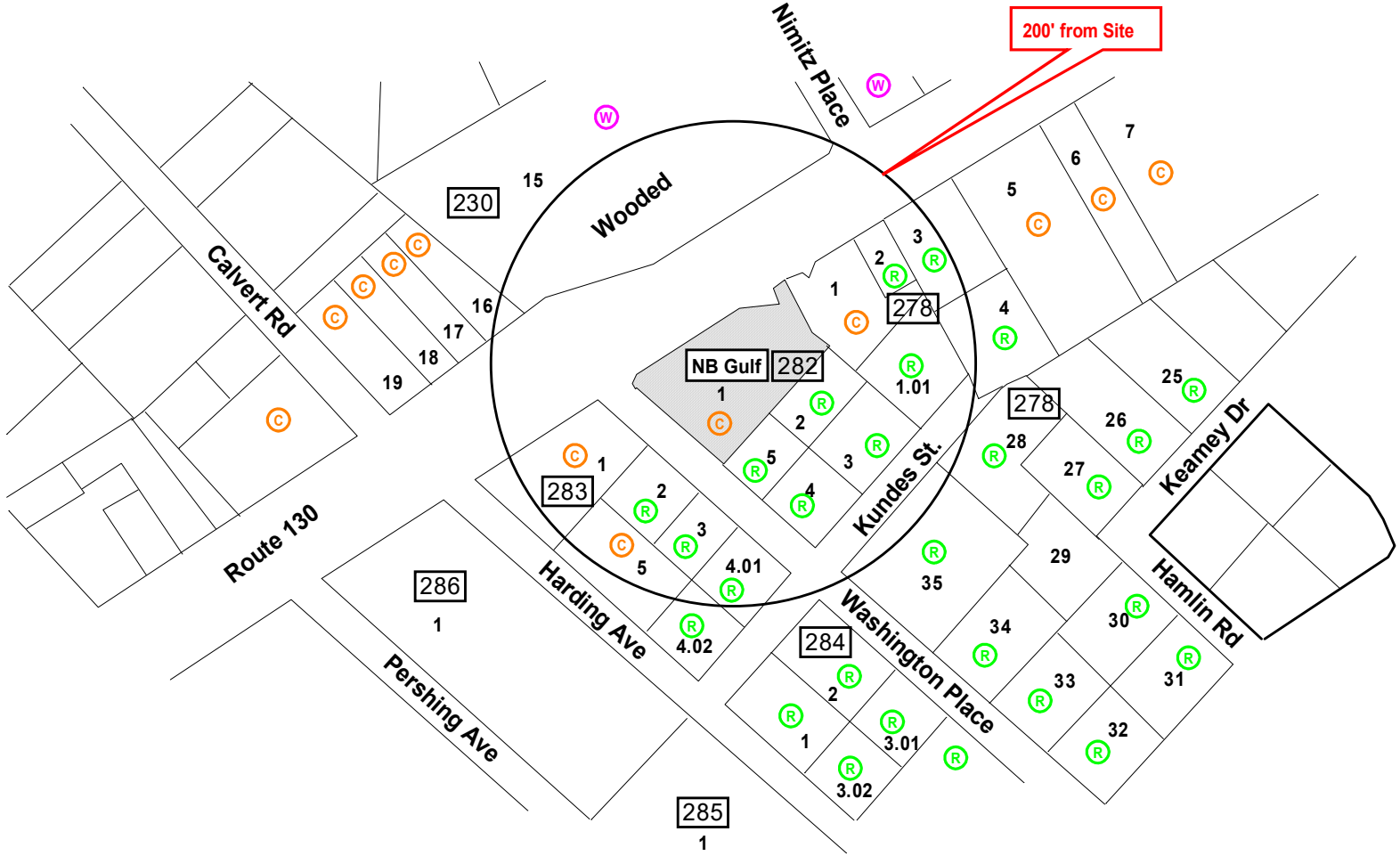
OR

- [ ] There are NO sensitive populations located within 200 feet of the property boundary

NOTE:

A scaled map indicating the location of the site and the location of each sensitive population and resources is attached as a hard copy and electronically **(Figure 1)**.

Cc: Mohammad Queshi (NJDEP – with checklist, table & figure)
Office of Community Relations (with checklist, table & figure)
Lisa Russo (North Brunswick Municipal Clerk – with checklist, table & figure)
David Papi (Middlesex County Health Director – with checklist, table & figure)



KEY

- (R) Residential Property
- (C) Commercial Property
- (W) Wooded
- 4208 Block
- 2 Lot

N

0' 242'

APPROXIMATE SCALE IN FEET

RedHawk Environmental
2845 Hale Hollow Road
Bridgewater Corners, VT 05035

File: taxmap.drw | Date 3/11/10

Figure 1 Tax Map

North Bruswick Gulf
1696 Georges Road Rt 139
North Brunswick,New Jersey

Table 1: Properties with 200 feet of North Brunswick Gulf Station

Block	Lot	Occupant	Property Address	Township	State	Zip Code	Owner Name	Owner Address			
230	15	WOODED LOT	RT 130 (WOODED LOT)	NORTHBRUNSWICK	NJ		Labarbera Santo c/o S. Childs	101 CRICKET HILL CIRCLE	Princeton	NJ	08540
230	16	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054
230	17	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054
278	1.01	AMEDURI CHRISTOPHER J & MICHELE	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902
278	1	VALET DRY CLEANERS	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Jacob Krauszer	18 MULBERRY LANE	EDISON	NJ	08820
278	1	QUIK OUT (CONVIENCE STORE)	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Jacob Krauszer	18 MULBERRY LANE	EDISON	NJ	08820
278	2		1670 RT 130	NORTHBRUNSWICK	NJ	08902	Roy & Amy Chereath	2 JUMPING BROOKE	MONROE	NJ	08831
278	3	CARMAN CARBAJAL & ULYSSES GONZALEZ	1660 RT 130	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1660 RT 130	NORTHBRUNSWICK	NJ	08902
278	4	DAMATO JOSEPH & KATHLEEN	1665 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1665 KUNDES STREET	NORTHBRUNSWICK	**NJ**	08902
278	28	CONLIN MARK J & KATHLEEN M	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902
278	35	RAVENS JUAN R & LUCILLE	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902
282	1	NORTH BRUNSWICK GULF	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	Walter Lapp Sr.	263 EDWADRS PLACE	NORTHBRUNSWICK	NJ	08902
282	2	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902
282	3	ZHANG RONGHUI	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902
282	4	CASSELLA DAVID	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902
282	5	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902
283	1	GETTY SEVICE STATION	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Giovanni & Dolores Pernice	12 PINE VALLY LANE	MONROE	NJ	08831
283	1	ENTERPRISE RENT-A-CAR	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Giovanni & Dolores Pernice	12 PINE VALLEY LANE	MONROE	NJ	08831
283	2	LUZACK DENISE	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902
283	3	ALZATE JORGE & HARUMI ROXANA	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902
283	4.01	MATTEI RICHARD J & MARY M	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902
283	4.02	PEDDI RAVINDRA & KAVITHA	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902
283	5	STORAGE YARD FOR LOT 1	HARDING AVE (STORAGE YARD)	NORTHBRUNSWICK	NJ		Giovanni & Dolores Pernice	12 PINE VALLY LANE	MONROE	NJ	08831

ON-SITE ENVIRONMENTAL

ON-SITE ENVIRONMENTAL, INC.
119 SHEPHERDS WAY • COATESVILLE, PA 19320
PHONE: (610) 384-2719 • FAX (610) 384-2709

Dear Neighbor,

On behalf of North Brunswick Gulf, Inc., I am writing to inform you that we will soon begin work to clean up environmental contamination at the North Brunswick Gulf Service Station located at 1696 Georges Road/RT 130 in North Brunswick, NJ Block 282 Lot 1. The work will be done under rules established by the New Jersey Department of Environmental Protection (DEP), which has assigned it case number 01-08-30-1546-07 and 01-08-30-1549-55.

The cleanup is prompted by the presence of gasoline constituents including benzene, toluene, ethylbenzene, xylenes, naphthalene, methyl tertiary butyl ether (MTBE) and tertiary butyl alcohol (TBA), which has/have been found in soil and groundwater. Lead has also been detected in the soil onsite. Our work will involve a vapor intrusion investigation, the collection of additional soil samples and the preparation of a Remedial Action Work Plan for review by the NJDEP before the plan is implemented.

During the course of the work, we will provide you with periodic updates about our progress. A copy of any and all of our reports regarding the work will also be made available to North Brunswick Township officials, upon request. Should you have any questions regarding the work, you can contact me directly at 610-384-2719 and I will be happy to answer any questions you may have. In addition, you may contact the DEP Office of Community Relations at 609-984-3081.

This notification is being provided to you as a public service. We hope the work we are doing will progress smoothly and, in the end, restore the property as a valuable asset to the neighborhood. In the meantime, we appreciate your concerns and your patience and pledge to conduct our work efficiently and as responsible members of the community.

Sincerely yours,

Frank Jasiulewicz, PG, SSE, LSRP
President
On-Site Environmental, Inc.

Cc:

NJDEP Case Mgr. – Mohammad Qureshi
Office of Community Relations
North Brunswick Municipal Clerk – Lisa Russo
Middlesex County Health Department – David A. Papi

FACT SHEET
Notification of Environmental Investigation and Cleanup
North Brunswick Gulf Station
1696 Georges Road/ RT 130 North Brunswick, NJ (Block 282/ Lot 1)
NJDEP Preferred Identification # 010180
NJDEP Case # 01-08-30-1546-07 and 01-08-30-1549-55
February 21, 2012

In accordance with New Jersey Department of Environmental Protection (NJDEP) regulations for "Notification and Public Outreach", North Brunswick Gulf, Inc. is required to provide information relating to environmental conditions and remedial activities being conducted at the above referenced site.

Operations conducted at the site includes storing gasoline in underground storage tanks (USTs) for resale. In 2002 gasoline impacts to the soil and groundwater were identified. Chemicals detected in the soil included benzene, ethylbenzene, toluene, xylenes, naphthalene, methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), and lead. Chemicals detected in the groundwater included benzene, ethylbenzene, toluene, xylenes, MTBE, and TBA.

Since the contamination was detected, the person conducting the remediation has excavated some of the soil contamination related to the USTs and has determined that the contamination related to the fuel releases have migrated from the site. Groundwater samples from monitoring wells collected in October 2009 has defined the extent of the gasoline related groundwater contamination to extend approximately 50 feet past the property boundary to the north and approximately 35 feet past the property boundary to the east and south.

The concentrations detected in the October 2009 samples that were above the NJDEP groundwater quality standards (GWQS) are listed below along with the NJDEP standard.

Contaminant In Groundwater	**Concentration Range (ppb)**	**NJDEP Groundwater Standard (ppb)**
Benzene	<1.0 to 230	1
Toluene	<2 to 21,000	600
Ethylbenzene	<2 to 3,400	700
Xylenes	<10 to 21,000	1,000
MTBE	<2 to 2,000	70
TBA	<100 to 6,300	100

Soil samples collected at the site indicates that soil contamination still remains at the site and concentrations above the direct contact soil standards are contained to the site. The highest concentrations detected in those samples are listed below along with the NJDEP direct contact soil standards.

Contaminant In Soil	**Concentration Range (ppm)**	**Residential Direct Contact Soil Cleanup Standard (ppm)**
Benzene	30.9	2
Naphthalene	23	6
Lead	1,490	400

A Licensed Site Remediation Professional (LSRP) with On-Site Environmental, Inc. will conduct investigative activities in accordance with the NJDEP requirements to address the chemical contaminants detected. The LSRP conducting the investigations is evaluating the environmental impacts from the site including the potential for the contamination from this site to affect drinking water wells and/or the quality of indoor air to ensure that any impacts from the contamination is promptly mitigated.

For additional information , please contact Frank Jasiulewicz at 610-384-2719**.** You may also direct questions to the NJDEP Office of Community Relations (OCR) at 609-984-3081.

In addition, a list of online resources for information about the contaminants is provided below

http://www.wpa.gov/superfund/health/index.htm

http://www.atsdr.cdc.gov/toxfaq.html

Cc: NJDEP Bureau of Case Assignment & initial Notice (with mailing list)
NJDEP Office of Community Relations (with mailing list)
Lisa Russo (North Brunswick Municipal Clerk with mailing list)
David A. Papi (Health Officer Middlesex County with mailing list)

Copy of Newspaper Add that will be published in the North & South Brunswick Sentinel Newspaper on 2/29/12

Notification of Environmental Investigation and Cleanup
North Brunswick Gulf Service Station # 0101800
1696 Georges Road/RT 130 North Brunswick, NJ (Block 282/ Lot 1)
NJDEP Preferred Identification #010180
February 29, 2012

In accordance with New Jersey Department of Environmental Protection (NJDEP) regulations for "Notification and Public Outreach", North Brunswick Gulf, Inc. provides herein information relating to environmental investigative and remedial activities being conducted at the above referenced Site.

Chemical constituents associated with retail gasoline service station operations at the Site including, but not limited to, benzene, toluene, ethylbenzene, xylenes, naphthalene, methyl tertiary butyl ether (MTBE), tertiary butyl alcohol and lead were initially detected in the soil and/or groundwater in 2002**.** Since this time, the contamination in the soil and/or groundwater has migrated from the service station property.

North Brunswick Gulf, Inc. has conducted investigative and interim remedial activities in accordance with the requirements of the NJDEP to address the chemical constituents detected. In addition, an evaluation of receptors in the area is being conducted in order to ensure that the remedial approach is appropriate for the Site.

For additional information or to obtain a copy of the complete fact sheet for this Site, please contact Frank Jasiulewicz at 610-384-2719. You may also direct questions to the NJDEP Office of Community Relations (OCR) at 609-984-3081.

2015

New Jersey Department of Environmental Protection
Site Remediation Program

PUBLIC NOTIFICATION AND OUTREACH

Date Stamp
(For Department use only)

SECTION A. SITE LOCATION

Site Name: North Brunswick Gulf

List all AKAs:

Street Address: 1696 Georges Road

Municipality: North Brunswick *(Township, Borough or City)*

County: Middlesex Zip Code: 08902

Mailing Address if different than street address: 43 Overlook Circle, Berwyn, Pa. 19312

Program Interest (PI) Number(s): 010180

Case Tracking Number(s) for this submission: 01-08-301546-07

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2: 08/30/2001

State Plane Coordinates for a central location at the site: Easting: 500229 Northing: 586425

Municipal Block(s) and Lot(s):

Block #	282	Lot #	1	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NOTIFICATION INFORMATION

1. Indicate the type of Public Notification:

☐ Initial ☒ Update

2. Public notification was provided via: *(Check all that apply)*

Sign..... ☐ Yes ☐ No
Letter..... ☒ Yes ☐ No
Fact sheet..... ☐ Yes ☐ No

3. Were materials produced in a language other than English? ..... ☐ Yes ☒ No

If "Yes," in what other language was notification prepared? _____

4. Were copies provided to municipal clerk, local/county health dept., and local health agency? ..... ☒ Yes ☐ No

5. Did you provide an electronic copy of all required submittals? ..... ☒ Yes ☐ No

6. Was public notification conducted using an alternate plan and is the rationale for this plan included? ..... ☐ Yes ☒ No

7. Was additional public outreach conducted due to the NJDEP's determination of substantial public interest? ..... ☐ Yes ☒ No

SECTION C. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: North Brunswick Gulf, Inc.

Representative First Name: Ruth Representative Last Name: Frey

Title: Power of attorney for Walter Lapp Sr.

Phone Number: (215) 307-5002 Ext: Fax:

Mailing Address: 43 Overlook Circle

City/Town: Berwyn State: Pa. Zip Code: 19312

Email Address: Frey@email.chop.edu

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Ruth A Frey Date: 7/5/15

Name/Title: Ruth Frey/Power of Attorney

SECTION D. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 585751

First Name: Frank Last Name: Jasiulewicz

Phone Number: (610) 384-2719 Ext: Fax: (610) 384-2709

Mailing Address: 119 Shepherds Way

City/Town: Coatesville State: Pa. Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☐ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Frank Jasiulewicz Date: 7-6-15

LSRP Name/Title: Frank Jasiulewicz/President

Company Name: On-Site Environmental, Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

On-Site Environmental, Inc.

Consulting Assessment Remediation

7/2/15 Sent Via US mail: certificate of mailing

Re: North Brunswick Gulf, Inc.
1696 Georges Road
North Brunswick, New Jersey 08902
NJDEP PI#: 010180
NJDEP Case #: 01-08-301546-07

Dear Neighbor:

On-Site Environmental, Inc. (On-Site), On behalf of North Brunswick Gulf, Inc. has been investigating environmental conditions at the North Brunswick Gulf, Inc. facility located at 1696 Georges Road/RT 130 in North Brunswick, New Jersey Block 282 Lot 1. This work is being done under the rules established by the New Jersey Department of Environmental Protection (NJDEP), which requires that we provide all owners and tenants within 200 feet of the site boundary with periodic updates on the remediation status.

As part of our investigations we have performed vapor intrusion testing and will be performing more testing of the soil and ground water at this site in the future that will allow us to finalize a remedial investigation report (RIR).

Our testing has indicated that fuel related compounds have been detected in the soil and groundwater. The existing analytical data from the samples also indicates that the soil contamination is limited to the North Brunswick Gulf site but contaminants in ground water extend off-site approximately 50 feet to the north and approximately 35 feet to the east and south.

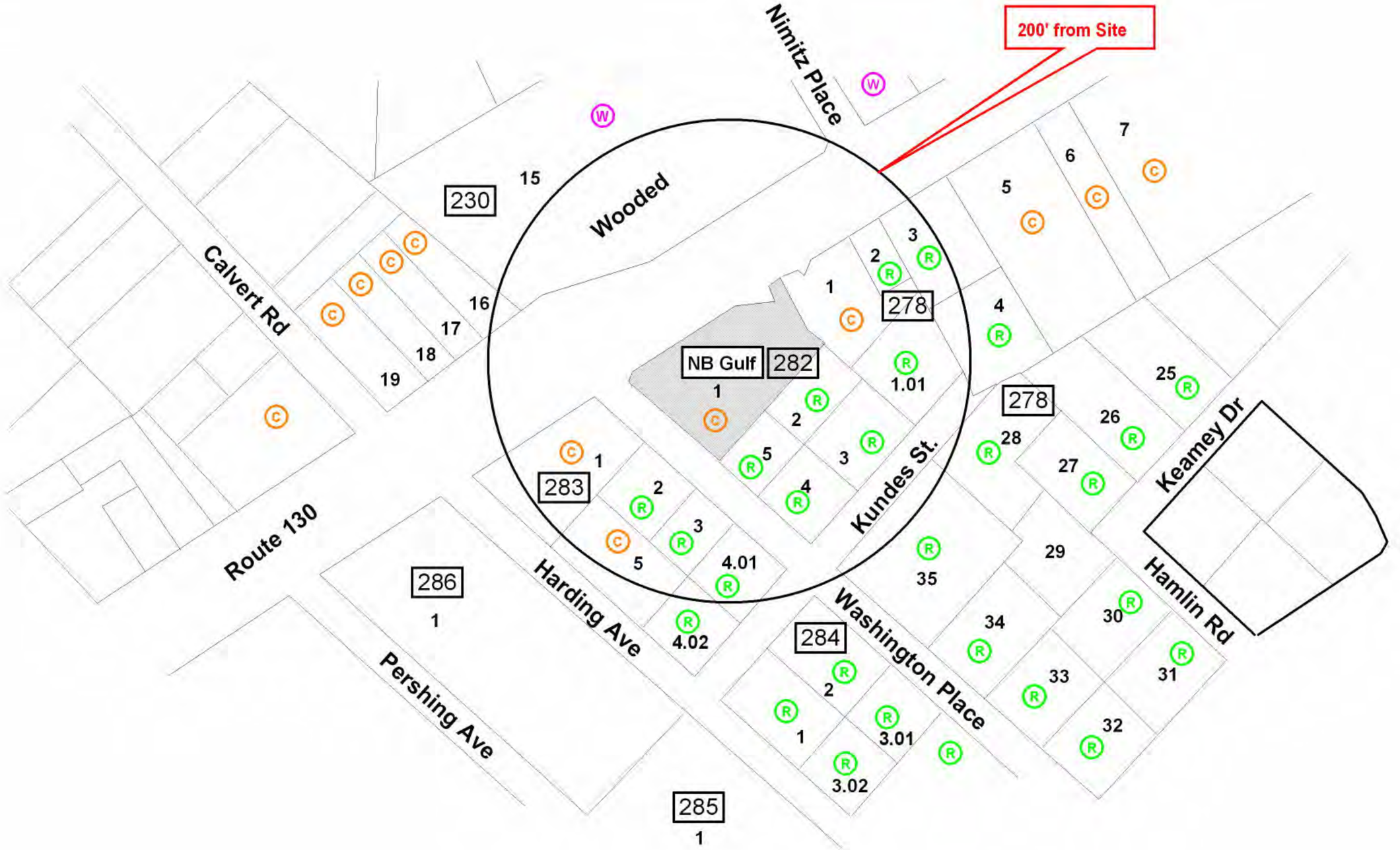
The work at the site is being performed under the oversight of a licensed site remediation professional (LSRP) and guidelines established by the NJDEP. The LSRP on record for the site is Frank Jasiulewicz with On-Site (610-384-2719) and the responsible party is North Brunswick Gulf, Inc. For more information, please contact me, on behalf of North Brunswick Gulf, Inc. at 610-384-2719.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Cc: North Brunswick Municipal Clerk – Lisa Russo
Middlesex County Health Department – Lester Jones
Middlesex County Board of Health - Dorthy Jennings
North Brunswick Health Officer - Nick DeStefano
Ruth Frey - NBG via email
Pam Edwards - Resolute Management via email

Table 1: Properties within 200 feet of North Brunswick Gulf Station & Mailing List for Notification Letters												
Block	**Lot**	**Occupant**	**Property Address**	**Township**	**State**	**Zip Code**	**Owner Name**	**Owner Address**				**Type of Use**
230	15	WOODED LOT	RT 130 (WOODED LOT)	NORTHBRUNSWICK	NJ		Labarbera Santo c/o S. Childs	101 CRICKET HILL CIRCLE	Princeton	NJ	08540	Vacant
230	16	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054	Equipment Rental
230	17	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054	Equipment Rental
278	1.01	AMEDURI CHRISTOPHER J & MICHELE	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	1	VALET DRY CLEANERS	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Jacob Krauszer	18 MULBERRY LANE	EDISON	NJ	08820	Dry Cleaner
278	1	QUIK OUT (CONVIENCE STORE) OR OCCUPANT	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Jacob Krauszer	18 MULBERRY LANE	EDISON	NJ	08820	Convenience store
278	2	OCCUPANT	1670 RT 130	NORTHBRUNSWICK	NJ	08902	Roy & Amy Chereath	2 JUMPING BROOKE	MONROE	NJ	08831	Convenience store
278	3	OCCUPANT	1660 RT 130	NORTHBRUNSWICK	NJ	08902	Nagesh K Kolluru	4 Eddington Lane	Monroe	NJ	08931	Residential
278	4	DAMATO JOSEPH & KATHLEEN	1665 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1665 KUNDES STREET	NORTHBRUNSWICK	**NJ**	08902	Residential
278	28	CONLIN MARK J & KATHLEEN M	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	35	RAVENS JUAN R & LUCILLE	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	1	NORTH BRUNSWICK GULF	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	Walter E. Lapp Sr. & Jathina K	11220 Shannondell Drive	Audubon	Pa	19403	Service Sation
		NORTH BRUNSWICK GULF	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	Tennant	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	Service Sation
282	2	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential backyard
282	3	ZHANG RONGHUI	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
282	4	CASSELLA DAVID	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	5	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	1	GETTY SEVICE STATION	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Pernice Family Partnership LLC	12 PINE VALLY LANE	MONROE	NJ	08831	Service Station
283	1	ENTERPRISE RENT-A-CAR	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Pernice Family Partnership LLC	12 PINE VALLEY LANE	MONROE	NJ	08831	Car Rental
283	2	LUZACK DENISE	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	3	ALZATE JORGE & HARUMI ROXANA	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.01	OCCUPANT	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Federal National Mortgage Assoc	3900 Wisconsin Ave	Washington DC	DC	20016	Residential
283	4.02	PEDDI RAVINDRA & KAVITHA	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Residential
283	5	STORAGE YARD FOR LOT 1	HARDING AVE (STORAGE YARD)	NORTHBRUNSWICK	NJ		Pernice Family Partnership LLC	12 PINE VALLY LANE	MONROE	NJ	08831	Storage yard for lot 1
Copies Sent to Following Agencies												
		Middlesex County Health Dept.: Lester Jones	35 Kennedy Blvd	East Brunswick	NJ	08816						
		North Brunswick Municipal Clerk : Lisa Russo	710 Hermann RD	North Brunswick	NJ	08902						
		Middlesex County Board of Health: Dorthy Jennings	710 Hermann RD	North Brunswick	NJ	08902						
		North Brunswick Health Officier: Nick DeStefano	710 Hermann RD	North Brunswick	NJ	08902						



KEY

- (R) Residential Property
- (C) Commercial Property
- (W) Wooded
- 4208 Block
- 2 Lot

N

0' 242'

APPROXIMATE SCALE IN FEET

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: File : taxmap 4

Date 2/9/13

Figure 31 Tax Map

North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ

2017

New Jersey Department of Environmental Protection
Site Remediation Program

PUBLIC NOTIFICATION AND OUTREACH

Date Stamp
(For Department use only)

SECTION A. SITE LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf

Street Address: 1696 Georges Road

Municipality: North Brunswick *(Township, Borough or City)*

County: Middlesex Zip Code: 08902

Mailing Address if different than street address: 555 Georges Road, Dayton, NJ 08810

Program Interest (PI) Number(s): 010180

Case Tracking Number(s) for this submission: 01-08-30-1546-07 & 01-08-30-1549-55

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2: 08/30/2001

State Plane Coordinates for a central location at the site: Easting: 500229 Northing: 586425

Municipal Block(s) and Lot(s):

Block #	282	Lot #	1	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NOTIFICATION INFORMATION

1. Indicate the type of Public Notification:

☐ Initial ☒ Update

2. Public notification was provided via: *(Check all that apply)*

Sign..... ☐ Yes ☐ No
Letter..... ☒ Yes ☐ No
Fact sheet..... ☐ Yes ☐ No

3. Were materials produced in a language other than English? ..... ☐ Yes ☒ No

If "Yes," in what other language was notification prepared? _____

4. Were copies provided to municipal clerk, local/county health dept., and local health agency? ..... ☒ Yes ☐ No

5. Did you provide an electronic copy of all required submittals? ..... ☒ Yes ☐ No

6. Was public notification conducted using an alternate plan and is the rationale for this plan included? ..... ☐ Yes ☒ No

7. Was additional public outreach conducted due to the NJDEP's determination of substantial public interest? ..... ☐ Yes ☒ No

SECTION C. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: 1696 Route 130 LLC

Representative First Name: Walter Representative Last Name: Lapp, Jr.

Title: Part owner

Phone Number: (732) 710-7209 Ext: Fax:

Mailing Address: 555 Georges Road

City/Town: Dayton State: New Jersey Zip Code: 08810

Email Address: Lapphouse@verizon.net

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Walter Lapp Date: 7/10/17

Name/Title: Walter Lapp/part owner

SECTION D. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: ~~585851~~ 585751

First Name: Frank Last Name: Jasiulewicz

Phone Number: (610) 384-2719 Ext: Fax: (610) 384-2709

Mailing Address: 119 Shepherds Way

City/Town: Coatesville State: Pa. Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with N.J.S.A. 58:10C-14, and N.J.S.A. 58:10B-1.3b(1) and (2).

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☒ *directly oversaw and supervised all of the referenced remediation, and\or*

☐ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Frank Jasiulewicz Date: 7/12/17

LSRP Name/Title: Frank Jasiulewicz/President

Company Name: On-Site Environmental, Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

On-Site Environmental, Inc.

Consulting Assessment Remediation

7/5/17 Sent via US mail: certificate of mailing

Re: 1696 Rt 130, LLC
A/K/A: North Brunswick Gulf
1696 Georges Road Rt 130
North Brunswick, New Jersey 08902
NJDEP PI#: 010180
NJDEP Case #: 01-08-301546-07

Dear Neighbor:

On-Site Environmental, Inc. (On-Site) on behalf of 1696 Rt 130, LLC has been investigating environmental conditions at the former North Brunswick Gulf facility located at 1696 Georges Road Rt 130 in North Brunswick, New Jersey Block 282 Lot 1. This work is being done under the rules established by the New Jersey Department of Environmental Protection (NJDEP), which requires that we provide all owners and tenants within 200 feet of the site boundary with periodic updates on the remediation status.

As part of our investigations we have recently performed additional soil and ground water testing and are planning to conduct more testing in the near future to allow us to finalize a remedial investigation report (RIR).

Our testing has indicated that fuel and oil related compounds have been detected in the soil and ground water. The existing analytical data from the samples also indicates that the soil contamination appears to be limited to the former North Brunswick Gulf site and that the fuel contaminants in ground water may extend beneath the north bound lane of RT 130 and may extend approximately 30 feet beyond the southeast and southwest property boundaries. Additional wells and ground water sampling are planned to define the extent of the ground water impacts.

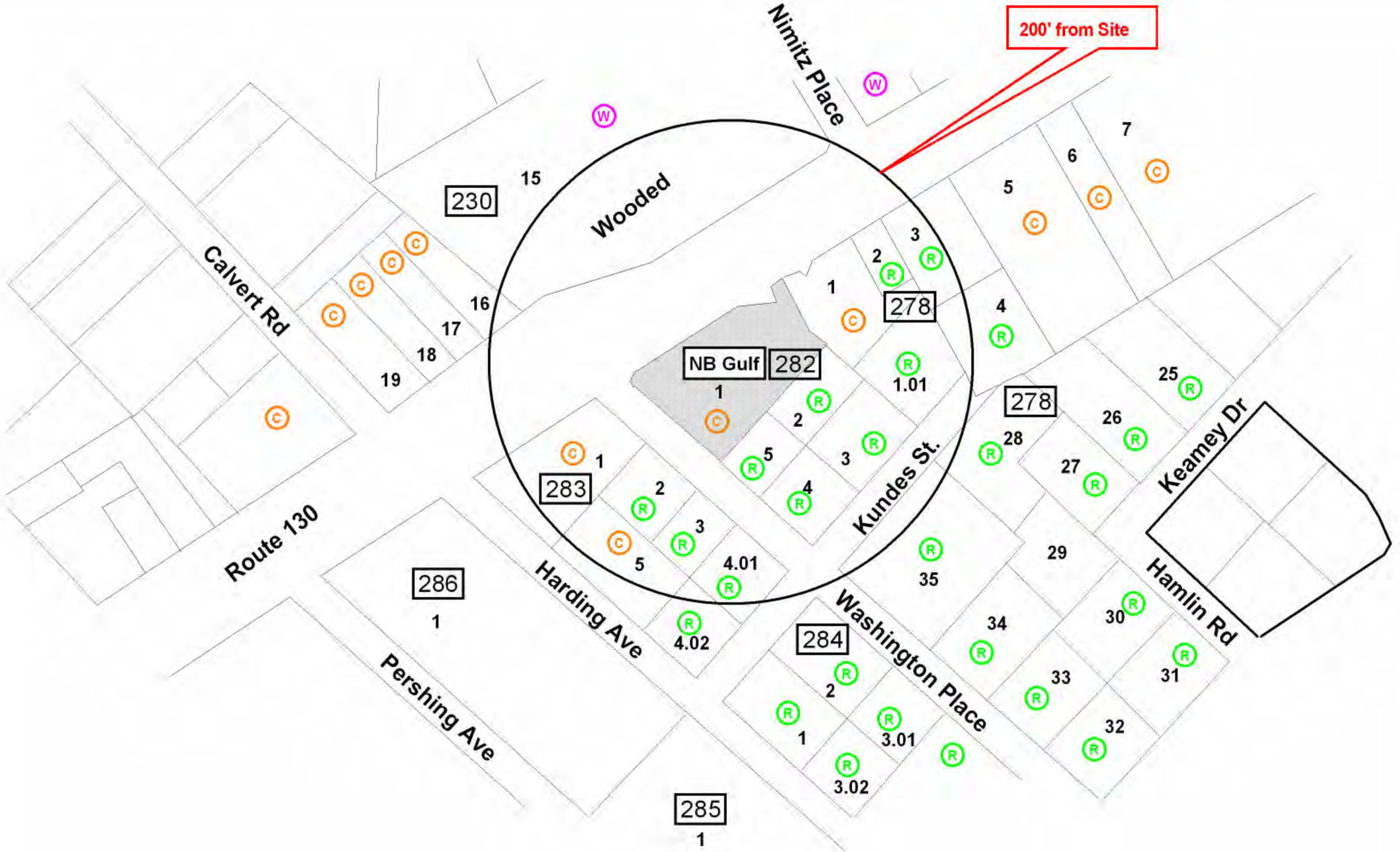
The work at the site is being performed under the oversight of a licensed site remediation professional (LSRP) and guidelines established by the NJDEP. The LSRP on record is Frank Jasiulewicz with On-Site (610-384-2719) and the responsible party is 1696 Rt 130, LLC. For more information, please contact me, on behalf of the responsible party at 610-384-2719

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Cc: North Brunswick Municipal Clerk - Lisa Russo
Middlesex County Health Department - Lester Jones
Middlesex County Public Health Department - Environmental Coordinator
North Brunswick Health Officer - Nick DeStefano
Ruth Frey NBG by email
Walter Lapp - NBG via email
Steven Gottsche - Resolute Management via email

Table 1: Properties within 200 feet of North Brunswick Gulf Station & Mailing List that Received Notification Letters												
Block	**Lot**	**Occupant**	**Property Address**	**Township**	**State**	**Zip Code**	**Owner Name**	**Owner Address**				**Type of Use**
230	15	WOODED LOT	RT 130 (WOODED LOT)	NORTHBRUNSWICK	NJ		Labarbera Santo % J Labarbera	101 CRICKET HILL CIRCLE	Princeton	NJ	08540	Vacant
230	16	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054	Equipment Rental
230	17	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054	Equipment Rental
278	1.01	AMEDURI CHRISTOPHER J & MICHELE	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	1	VALET DRY CLEANERS	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Krauszer Family LLC	18 MULBERRY LANE	EDISON	NJ	08820	Dry Cleaner
278	1	QUIK OUT (CONVIENCE STORE)	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Krauszer Family LLC	18 MULBERRY LANE	EDISON	NJ	08820	Convenience store
278	2	Resident	1670 RT 130	NORTHBRUNSWICK	NJ	08902	Roy & Amy Chereath	2 JUMPING BROOKE	MONROE	NJ	08831	Residential
278	3	Resident	1660 RT 130	NORTHBRUNSWICK	NJ	08902	Kolluru Nagesh K	4 Eddington Lane	Monroe	NJ	08931	Residential
278	4	DAMATO JOSEPH & KATHLEEN	1665 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1665 KUNDES STREET	NORTHBRUNSWICK	**NJ**	08902	Residential
278	28	CONLIN MARK J & KATHLEEN M	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	35	RAVENS JUAN R & LUCILLE	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	1	Precision Auto Service	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	1696 Route 130 LLC	555 Georges Road	Dayton	NJ	08810	Auto repair
	1	Fai Fuel, Inc.: Mobil	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	1696 Route 130 LLC	555 Georges Road	Dayton	NJ	08810	Retail gasoline & diesel fuel sales
282	2	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential backyard
282	3	ZHANG RONGHUI	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
282	4	CASSELLA DAVID	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	5	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	1	BP SEVICE STATION	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Service Station
283	1	Spotless Hand Carwash & Detailing	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Cra Wash
283	2	LUZACK DENISE	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	3	ALZATE JORGE & HARUMI ROXANA	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.01	TalJ George	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.02	PEDDI RAVINDRA & KAVITHA	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Residential
283	5	STORAGE YARD FOR LOT 1	HARDING AVE (STORAGE YARD)	NORTHBRUNSWICK	NJ		Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Storage yard for lot 1



KEY

- (R) Residential Property
- (C) Commercial Property
- (W) Wooded
- 4208 Block
- 2 Lot

N

0' 242'

APPROXIMATE SCALE IN FEET

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #:
File : taxmap 4

Date
7/6/17

Figure 1 Tax Map

North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ

2019

New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

PUBLIC NOTIFICATION AND OUTREACH

Date Stamp
(For Department use only)

SECTION A. SITE LOCATION

Site Name: Lawrence Fuel LLC

List all AKAs: 1696 Rt 130 LLC AKA North Brunswick Gulf

Street Address: 1696 Georges Rd RT 130

Municipality: North Brunswick *(Township, Borough or City)*

County: Middlesex Zip Code: 08902

Mailing Address if different than street address: 555 Georges Rd, Dayton, NJ 08810

Program Interest (PI) Number(s): 010180

Case Tracking Number(s) for this submission: 01-08-30-1546-07 01-08-30-1549-55 19-05-08-1010-08

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2:

State Plane Coordinates for a central location at the site: Easting: 500226 Northing: 586394

Municipal Block(s) and Lot(s):

Block #	282	Lot #	1	Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NOTIFICATION INFORMATION

1. Indicate the type of Public Notification:

☐ Initial ☒ Update

2. Public notification was provided via: *(Check all that apply)*

Sign..... ☐ Yes ☐ No
Letter..... ☒ Yes ☐ No
Fact sheet..... ☐ Yes ☐ No

3. Were materials produced in a language other than English? ..... ☐ Yes ☒ No

If "Yes," in what other language was notification prepared?

4. Were copies provided to municipal clerk, local/county health dept., and local health agency? ..... ☒ Yes ☐ No

5. Did you provide an electronic copy of all required submittals? ..... ☒ Yes ☐ No

6. Was public notification conducted using an alternate plan and is the rationale for this plan included? ..... ☐ Yes ☒ No

7. Was additional public outreach conducted due to the NJDEP's determination of substantial public interest? ..... ☐ Yes ☒ No

SECTION C. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 585751

First Name: Frank Last Name: Jasiulewicz

Phone Numbers: (610) 384-2719 Ext.: Fax: (610) 384-2709

Mailing Address: 119 Shepherds Way

Municipality: Coatesville State: Pa. Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with N.J.S.A. 58:10C-14, and N.J.S.A. 58:10B-1.3b(1) and (2).

(1) I certify, as a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C-1 et seq. to conduct business in New Jersey, that for the remediation described in this submission, and all attachments included in this submission, I personally: Managed, supervised, or performed the remediation conducted at this site that is described in this submission, and all attachments included in this submission; and/or periodically reviewed and evaluated the work performed by other persons that forms the basis for the information in this submission; and/or completed the work of another site remediation professional, licensed or not, after having: (1) reviewed all available documentation on which I relied; (2) conducted a site visit and observed the then-current conditions and verified the status of as much of the work as was reasonably observable; and (3)concluded, in the exercise of my independent professional judgment, that there was sufficient information upon which to complete any additional phase of remediation and prepare workplans and reports related thereto.

(2) I certify:

- *That I have read this submission and all attachments to this submission;*
- *That in performing the professional services as the licensed site remediation professional for the entire site or each area of concern, I adhered to the professional conduct standards and requirements governing licensed site remediation professionals provided in N.J.S.A. 58:10C-16;*
- *That the remediation conducted at the entire site or each area of concern, that is described in this submission and all attachments to this submission, was conducted pursuant to and in compliance with the remediation requirements in N.J.S.A. 58:10C-14.c;*
- *That the remediation described in this submission, and all attachments to this submission, was conducted pursuant to and in compliance with the regulations of the Site Remediation Professional Licensing Board at N.J.A.C. 7:26I; and*
- *That the information contained in this submission and all attachments to this submission is true, accurate, and complete.*

(3) I certify, when this submission includes a response action outcome, that the entire site or each area of concern has been remediated in compliance with all applicable statutes, rules, and regulations and is protective of public health and safety and the environment.

(4) I certify that no other person is authorized or able to use any password, encryption method, or electronic signature that the Board or the Department have provided to me.

(5) I certify that I understand and acknowledge that:

- *If I knowingly make a false statement, representation, or certification in any document or information I submit to the Department I may be subject to civil and administrative enforcement pursuant to N.J.S.A. 58:10C-17.a.1(a)through (f) by the Board, including but not limited to license suspension, revocation, or denial of renewal; and*
- *If I purposely, knowingly, or recklessly make a false statement, representation, or certification in any application, form, record, document or other information submitted to the Department or required to be maintained pursuant to the Site Remediation Reform Act, I shall be guilty, upon conviction, of a crime of the third degree and shall, notwithstanding the provisions of subsection b. of N.J.S.2C:43-3, be subject to a fine of not less than $5,000 nor more than $75,000 per day of violation, or by imprisonment, or both.*

(6) I certify that I have read this certification prior to signing, certifying, and making this submission.

LSRP Signature: Frank J Date: 9/23/19

LSRP Name: Frank Jasiulewicz

Company Name: On-Site Environmental, Inc.

SECTION D. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: 1696 RT 130 LLC

Representative First Name: Walter Representative Last Name: Lapp

Title: Part owner

Phone Number: (732) 710-7209 Ext.: FAX:

Mailing Address: 555 Georges Rd

Municipality: Dayton State: NJ Zip code: 08810

Email Address: lapphouse@verizon.net

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

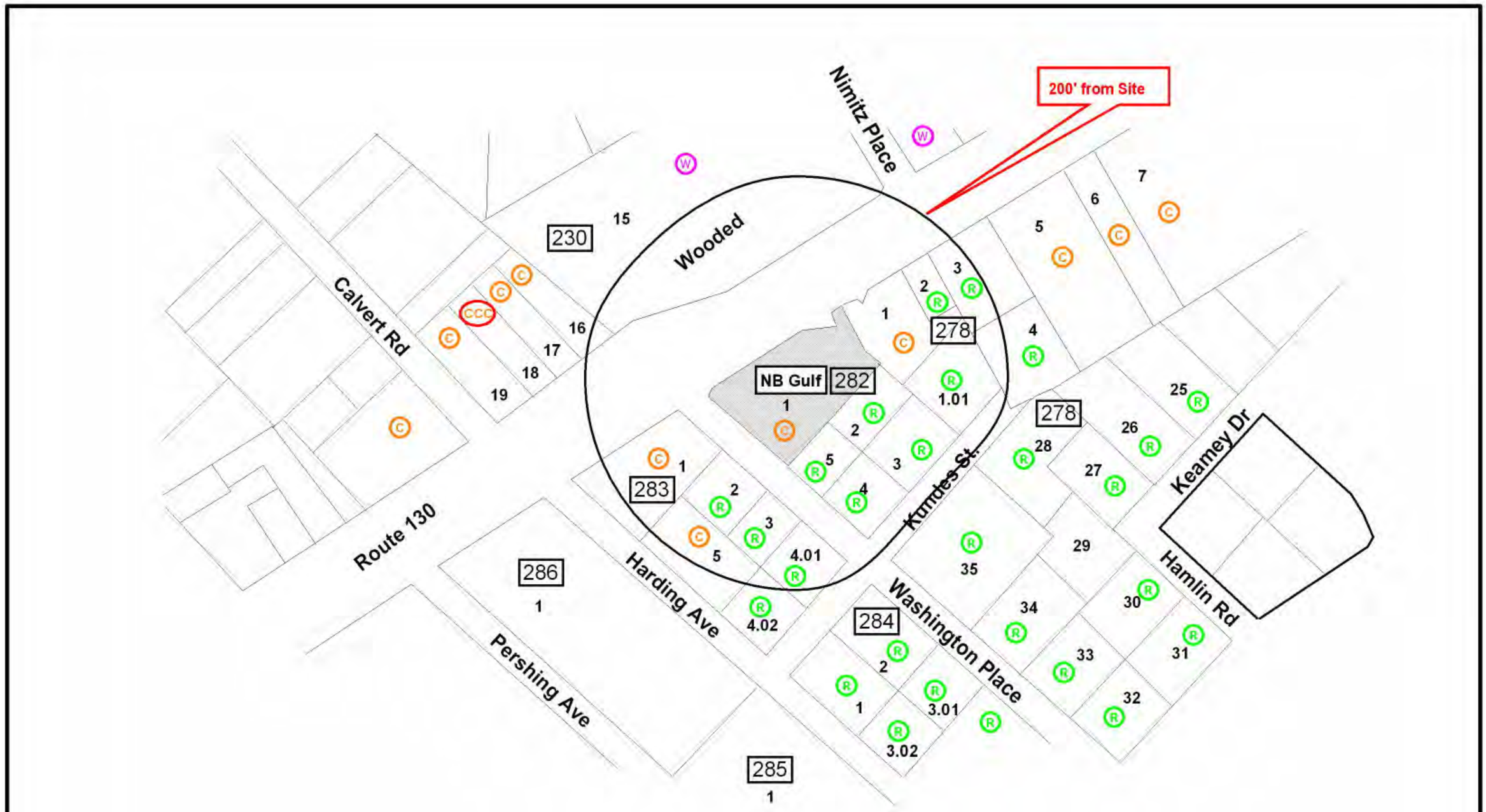
I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Walter Lapp Date: 9/20/19

Name/Title: Walter Lapp/part owner

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420



KEY

- (R) Residential Property
- (C) Commercial Property
- (W) Wooded
- (CCC) Child Care Center
- 4208 Block
- 2 Lot

Source: NJDEP Geo Web

N

0' 242'

APPROXIMATE SCALE IN FEET

ON-SITE ENVIRONMENTAL
119 Shetlerds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #:
File : taxmap

Date
7/23/18

Figure 1 Tax Map
North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ

Table 1: Properties within 200 feet of North Brunswick Gulf Station & Mailing List that Received Notification Letters												
Block	**Lot**	**Occupant**	**Property Address**	**Township**	**State**	**Zip Code**	**Owner Name**	**Owner Address**				**Type of Use**
230	15	WOODED LOT	RT 130 (WOODED LOT)	NORTHBRUNSWICK	NJ		Labarbera Santo % J Labarbera	101 CRICKET HILL CIRCLE	Princeton	NJ	08540	Vacant
230	16	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054	Equipment Rental
230	17	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054	Equipment Rental
278	1.01	AMEDURI CHRISTOPHER J & MICHELE	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	1	VALET DRY CLEANERS	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Krauszer Family LLC	18 MULBERRY LANE	EDISON	NJ	08820	Dry Cleaner
278	1	QUIK OUT (CONVIENCE STORE)	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Krauszer Family LLC	18 MULBERRY LANE	EDISON	NJ	08820	Convenience store
278	2	Resident	1670 RT 130	NORTHBRUNSWICK	NJ	08902	Roy & Amy Chereath	2 JUMPING BROOKE	MONROE	NJ	08831	Residential
278	3	Resident	1660 RT 130	NORTHBRUNSWICK	NJ	08902	Kolluru Nagesh K	4 Eddington Lane	Monroe	NJ	08931	Residential
278	4	DAMATO JOSEPH & KATHLEEN	1665 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1665 KUNDES STREET	NORTHBRUNSWICK	**NJ**	08902	Residential
278	28	CONLIN MARK J & KATHLEEN M	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	35	RAVENS JUAN R & LUCILLE	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	1	Precision Auto Service	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	1696 Route 130 LLC	555 Georges Road	Dayton	NJ	08810	Auto repair
	1	Fai Fuel, Inc.: Mobil	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	1696 Route 130 LLC	555 Georges Road	Dayton	NJ	08810	Retail gasoline & diesel fuel sales
282	2	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential backyard
282	3	ZHANG RONGHUI	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
282	4	CASSELLA DAVID	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	5	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	1	BP SEVICE STATION	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Service Station
283	1	Spotless Hand Carwash & Detailing	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Cra Wash
283	2	LUZACK DENISE	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	3	ALZATE JORGE & HARUMI ROXANA	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.01	TalJ George	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.02	PEDDI RAVINDRA & KAVITHA	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Residential
283	5	STORAGE YARD FOR LOT 1	HARDING AVE (STORAGE YARD)	NORTHBRUNSWICK	NJ		Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Storage yard for lot 1

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/20/19 Sent via US mail: certificate of mailing

Re: 1696 Rt 130, LLC
A/K/A: North Brunswick Gulf
A/K/A: Lawrence Fuel LLC
1696 Georges Road Rt 130
North Brunswick, New Jersey 08902
NJDEP PI#: 010180
NJDEP Case #: 01-08-301546-07

Dear Neighbor:

On-Site Environmental, Inc. (On-Site) on behalf of 1696 Rt 130, LLC has been investigating environmental conditions at the former North Brunswick Gulf facility located at 1696 Georges Road Rt 130 in North Brunswick, New Jersey Block 282 Lot 1. This work is being done under the rules established by the New Jersey Department of Environmental Protection (NJDEP), which requires that we provide all owners and tenants within 200 feet of the site boundary with periodic updates on the remediation status.

As part of our investigations we have recently performed additional soil and ground water testing and we will be finalizing a remedial investigation report (RIR) in the near future.

Our testing has indicated that fuel and oil related compounds have been detected in the soil and ground water. The existing analytical data from the samples also indicates that the soil contamination appears to be limited to the former North Brunswick Gulf site and that the fuel contaminants in ground water extends beneath the north bound lane of RT 130 and may extend approximately 30 feet beyond the southeast and southwest property boundaries.

The work at the site is being performed under the oversight of a licensed site remediation professional (LSRP) and guidelines established by the NJDEP. The LSRP on record is Frank Jasiulewicz with On-Site (610-384-2719) and the responsible party is 1696 Rt 130, LLC. For more information, please contact me, on behalf of the responsible party at 610-384-2719

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Cc: North Brunswick Municipal Clerk - Lisa Russo
Middlesex County Health Department - Lester Jones
Middlesex County Public Health Department - Environmental Coordinator
North Brunswick Health Officer - Nick DeStefano
Ruth Frey NBG by email
Walter Lapp - NBG via email
Tracey White - Resolute Management via email
Jennifer Galoski - Resolute Management via email

Appendix J

Vapor Intrusion Investigation

at

Csepes Residence

2013

2018

and at

1674 Rt 130

2019

SWAIN & WESTREICH, LLC
Attorneys at Law
Brinley Plaza - Building 2
3100 Highway 138
Wall, New Jersey 07719
(732) 681-7272
Attorneys for Plaintiff

ON-SITE ENVIRONMENTAL, INC.,	SUPERIOR COURT OF NEW JERSEY
	CHANCERY DIVISION: MIDDLESEX COUNTY
Plaintiff,	DOCKET NO.
vs.	Civil Action
THOMAS CSEPES and ANNA CSEPES,	**VERIFIED COMPLAINT FOR SITE ACCESS PURSUANT TO N.J.S.A. 58:10B - 16**
Defendants.	

Plaintiff, On-Site Environmental, Inc., having its principal place of business at 119 Shepherds Way, Coatesville, Pennsylvania 19320, by way of Complaint against defendants, Thomas Csepes and Anna Csepes, says:

NATURE OF ACTION

This is a summary action brought pursuant to N.J.S.A. 58:10B-16 for an Order compelling defendants to provide plaintiff with access to defendants' property located at 359 Washington Place, North Brunswick, New Jersey 08902, to perform a vapor intrusion investigation required by the New Jersey Department of Environmental Protection ("NJDEP").

THE PARTIES

1.Plaintiff is an environmental consulting, remediation and remediation contractor retained by North Brunswick Gulf, Inc. (NBG"), the owner of the property and operator of the service station located at 1696 Georges Road (Route 130), North Brunswick, New Jersey ("the NBG site").

2. Plaintiff's principal, Frank Jasiulewicz, is a Licensed Site Remediation Professional ("LSRP") licensed by NJDEP and is the LSRP retained by NBG for the investigation and remediation of contamination at the NBG site in accordance with NJDEP regulations requiring retention of an LSRP.

3. Defendants are the owners of the property located at 359 Washington Place, North Brunswick, which property adjoins the NBG site.

BACKGROUND

1. Plaintiff's investigation of petroleum contamination at the NBG site has determined that a contaminated groundwater plume exists within 30 feet of the house located on defendants' property.

2. N.J.A.C. 7:26E-1.15(a)(1)(i) requires that the person conducting a remediation to conduct a receptor evaluation of a vapor intrusion pathway when, among other conditions, a petroleum hydrocarbon based ground water contaminant is identified at a concentration exceeding NJDEP's ground water screening level within 30 feet of a building.

3. In compliance with N.J.A.C. 7:26C-8.2(b), on or about July 13, 2012, plaintiff sent a written request via mail to defendants for access to their property in order to conduct the vapor intrusion investigation required by N.J.A.C. 7:26E-1.15(a)(1)(i). A copy of this letter and the mail receipt is attached hereto as Exhibit A.

4. Plaintiff did not receive a response to its request for access to defendant's property. On August 9, 2012 Plantiff spoke to defendant's daughter (Peroamar Csepes sp?) to confirm defendant's still reside at the address listed above. Defendant's daughter stated that they still resided at the same address but would not provide plantiff with defendant's phone number. She

stated she would tell defendant's to call plantiff at 610-384-2719.

5. Pursuant to N.J.A.C. 7:26C-8.2(c), on or about August 14, 2012, plaintiff sent a second written request via express mail to defendant's for access to defendants' property. A copy of this letter and the mailing receipt is attached as Exhibit B.

6. Plaintiff did not receive a response to its second request for access to defendants' property.

7. In addition to the written requests mandated by the aforesaid regulations, on October 24, 2012, plaintiff sent a third written request via certified mail to defendants for access to their property. A copy of this letter and certified mailing receipt is attached as Exhibit C.

8. Plaintiff did not receive a response to its third request for access to defendants' property.

9. On January 15, 2013, plaintiff spoke to defendant's daughter again to confirm she had contacted defendant's, regarding plaintiff's request, which she stated she did. Plaintiff informed her that if defendants did not call plaintiff, the plaintiff will issue a court order to gain access.

10. On January 16, 2013 plaiuntiff spoke to defendants daughter again to confirm she informed defendants that a court order will be issued shortly and to call plaintiff. She stated she did inform defendant's but she could not force them to call and that they do not want anything done at their property.

PRAYER FOR RELIEF

1. Plaintiff incorporates the above allegations as though set forth at length herein.

2. Pursuant to N.J.S.A. 58:10B-16 and N.J.A.C. 7:26C-8.2(d), plaintiff requests that an Order be entered directing defendants to grant reasonable access to their property to allow

plaintiff to conduct the vapor intrusion investigation required by NJDEP regulations.

SWAIN & WESTREICH, LLC
Attorneys for Plaintiff

By:_____
Kenneth P. Westreich

CERTIFICATIONS

I certify that to the best of my knowledge, information and belief, the matter in controversy is not the subject of any other action pending in any court or arbitration proceeding, nor is any other action or arbitration proceeding contemplated.

I certify that confidential personal identifiers have been redacted from documents now submitted to the court, and will be redacted from all documents submitted in the future in accordance with Rule 1:38-7(b).

Date:

_____
Kenneth P. Westreich

VERIFICATION

1. I am the principal of the plaintiff in the Complaint to which this Verification is annexed.

2. I have read the Complaint and the facts set forth therein are true to the best of my knowledge, information and belief.

3. I am aware that if any of the foregoing statements made by me are willfully false I am subject to punishment.

_____
Frank Jasiulewicz

On-Site Environmental, Inc.

Consulting Assessment Remediation

2/7/13 Sent Via US Mail

Bureau of Case Assigment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

Ref: North Brunswick Gulf, Inc.
1696 Georges Road Rt 130
North Brunswick, New Jersey 08902

Dear NJDEP:

Enclosed please find a Potable Well/Indoor Air Sampling Notification Form and spreadsheet. I could not secure the responsible parties signature because he is very sick, in a nursing home and I cannot secure his signature in a timely fashion. To clarify, I have been trying for several months to secure an access agreement from a neighboring property to collect vapor intrusion samples and just before finalizing a court order request to gain access the home owner finally agreed. In the best interest of public health I have scheduled the samples to be collected before I can secure the responsible parties signature. We are scheduled to collect the indoor air samples on February 12 and 13, 2013.

I realize the NJDEP requires seven days notice before collecting the samples, and a signed form but to protect public health I will be collecting the samples as mentioned above. If you have any questions, please feel free to contact me at 610-384-2719.

Sincerely,



Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: Notification Form
Spreadsheet (via US mail & electronic mail)

Cc: Barbara Koonz, (w. attachments via electronic mail)
Kenneth Westreich, Swain & Westreich (w. attachments via electronic mail)
Nathan Bullard, RedHawk (w. attachments via electronic mail)
Becky Basch, RedHawk (w. attachments via electronic mail)

New Jersey Department of Environmental Protection
Site Remediation Program

POTABLE WELL/INDOOR AIR SAMPLING NOTIFICATION FORM

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: North Brunswick Gulf

List all AKAs:

Street Address: 1696 Georges Road RT 13

Municipality: North Brunswick Township (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-301546-07

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☒ No

If "Yes," please list the Case Manager:

SECTION C. POTABLE WELL/INDOOR AIR SAMPLING NOTIFICATION SPREADSHEET

Complete and attach the Potable Well/Indoor Air Sampling Notification Spreadsheet.

SECTION D. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: North Brunswick Gulf, Inc.

Representative First Name: Walter Representative Last Name: Lapp

Title: President

Phone Number: Ext: Fax:

Mailing Address: Shannondell at Valley Forge 11220 Shannondell Drive

City/Town: Audibon State: Pa Zip Code: 19403

Email Address:

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date:

Name/Title: Walter Lapp/President **No Changes Since Last Submittal** ☐

SECTION E. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 585751

First Name: Frank Last Name: Jasiulewicz

Phone Number: (610) 384-2719 Ext: Fax: (610) 384-2709

Mailing Address: 119 Shepherds Way

City/Town: Coatesville State: Pa Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☒ *directly oversaw and supervised all of the referenced remediation, and\or*

☐ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Frank Jasiulewicz Date: 2-7-13

LSRP Name/Title: Frank Jsiulewicz/President **No Changes Since Last Submittal** ☒

Company Name: On-Site Environmental, Inc.

This form should be submitted to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

Potable Well/Indoor Air Sampling Notification Spreadsheet

Case Name:	North Brunswick Gulf				Spreadsheet Revision Date:				
Case Address:	1696 Georges Road Rt 130				Program Interest #:	10180			
Case Municipality:	North Brunswick Twp				County:	Middlesex			
LSRP First Name:	Frank				LSRP Last Name:	Jasiulewicz			
LSRP Number:				585751					
Sample Type	Block	Lot	Location Type	Name	Address	Municipality	County	Zip Code	Scheduled Sample Collection Date
Indoor Air	282	5	Residential	Csepes Residence	359 Washington Place	North Brunswick	Middlesex	8902	02/12/13

On-Site Environmental, Inc.

Consulting Assessment Remediation

3/21/13

Mr. Thomas Csepes
359 Washington Place
North Brunswick, New Jersey 08902

Sent via US mail

Re: Indoor Air Sampling at:
359 Washington Place
North Brunswick Twp./Middelsex County
Block **282**, Lot **5**
Sampling Date: **2/19/13**

For: North Brunswick Gulf, Inc.
1696 Georges Road Rt 130
North Brunswick Twp./Middelsex County
NJDEP Preferred Identification #: 010180

Dear Mr. Csepes:

I am writing on behalf of North Brunswick Gulf, Inc. to provide you with the analytical results from indoor air samples collected at your property on February 19, 2013. The samples were collected as part of a vapor intrusion investigation due to the presence of ground water contamination at the North Brunswick Gulf site.

The sample**s** were analyzed for volatile organic compounds according to USEPA Method TO-15. The contaminants of concern associated with the North Brunswick Gulf site that could affect indoor air quality within your building include benzene, ethyl benzene, toluene, xylenes, methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), 1-2 dichloroethane, chloroethane, methyl ethyl ketone, methyl isobutyl ketone, 2-hexanone and naphthalene. Since this is the first time vapor intrusion testing was performed at your property, the New Jersey Department of Environmental Protection (NJDEP) requires that the samples be analyzed for the full list of volatile organic compounds and all analytical results be included in this letter and summary table**.** Therefore, if other volatile organics were detected, these compounds are also reported for your information.

Summarized below and in the attached table are the analytical results of the indoor air sample**s** collected from your building as well as the analytical results for an ambient (outdoor) air sample. The New Jersey Department of Environmental Protection (NJDEP) Indoor Air Screening Levels referenced in the attached table are based upon typical exposure factors and assume the occupants of the building are exposed to the indoor air over a 25 to 30 year period. Any sampling result that exceeded an applicable NJDEP screening level is presented in bold type and shaded.

RESULTS:

Some of the contaminant of concern were detected in the indoor air at a concentration below the NJDEP's Residential Indoor Air Screening Level. The levels could be related to vapor intrusion, the uncapped heating oil lines detected in your basement just before the air samples were started or the water in your basement sump. Note that On-Site did tape the uncapped lines before the samples were started.

Therefore, On-Site can not conclude at this time that the concentrations detected in your residence are related to vapor intrusion. We will need to collect a water sample from your sump to assist in our evaluation of the source of the contaminants of concern in your residence and another indoor air sample may be needed during the next heating season to complete our vapor intrusion investigation. After I receive approval from the responsible party and their insurance carrier to

secure a water sample from your sump you will be contacted to arrange a mutual convenient day and time to conduct the sampling.

In closing, please be advised that the New Jersey Department of Health (NJDOH) is responsible for evaluating indoor air quality issues. Therefore, if you have any questions regarding the quality of the indoor air and/or require information about potential health effects, please contact NJDOH's Indoor Environments Program at (609) 826-4920. Also please note that pursuant to New Jersey's Open Public Records Act (OPRA), all building surveys and vapor intrusion sampling results submitted to NJDEP during this investigation become part of the public record for the **[Site Name]** site. NJDEP is obligated to make this information available to any interested party that requests access to it through its Office of Record Access.

If you have any questions about your sampling results or the remedial activities underway at the North Brunswick Gulf site, please contact me at 610-384-2719/onsitefj@aol.com**.** For information about vapor intrusion, please see NJDEP's web page at www.nj.gov/dep/srp/guidance/vaporintrusion/indoor_air.htm.

Sincerely,

Frank Jasiulewicz, LSRP
President
On-Site Environmental, Inc.

Enclosure**s**: Sampling Results Summary Table
Common Household Sources of Background Indoor Air Contamination
Building inspection form

cc:
Lester Jones: County Health Department (w. result summary table, inspection form)
NJDEP Case Assignment and Initial Notice (w. result summary table, inspection form)
Mrs. Judy Lapp: (w. attachments via email)
Barbara Koonz, Esq. (w. result summary table, inspection form via email)
Becky Basch: RedHawk Envir. Consulting Ltd. (w. result summary table, inspection form via email)

Indoor Air Sampling Result Summary Table

North Brunswick Gulf, Inc.
1696 Georges Road RT 130
North Brunswick, Middelsex County
NJDEP PI# 010180

Csepes Residence 359 Washington Place North Brunswick, Middelsex County Block 282; Lot 5	**NJDEP Residential Indoor Air Screening Levels**	**IA Results Basement I-1**	**IA Results Living Room I-2 Run 1**	**Outside Ambient Air A-1**
Chemical		**2/19/2013**	**2/19/2013**	**2/19/2013**
Acetone	32,000	6.7	14	4.8
Benzene	2	1.1	1.4	0.96
Chloroform	2	0.73 J	0.78 J	ND
Chloromethane	94	0.95	1.2	1.3
Cyclohexane	6,300	0.79	0.72	ND
1,2-Dichloroethane	2	ND	1.3	ND
Dichlorodifluoromethane	100	2.4	2.4	2.4
p-Dichlorobenzene	3	1.1 J	1.3	ND
Ethanol	NA	76.9 E	635 E	13
Ethylbenzene	2	0.56 J	ND	ND
Ethyl Acetate	NA	0.50 J	26	5.8
Heptane	NA	0.61 J	0.41 J	ND
Hexane	730	0.78	0.74	0.34 J
Isopropyl Alcohol	NA	1.5	6.9	0.74
Methylene chloride	96	0.9	1.1	0.87
Methyl ethyl ketone	5,200	0.47 J	0.65	0.91
Naphthalene	3	ND	0.84 J	ND
2,2,4-Trimethylpentane	NA	0.70 J	0.75 J	0.56 J
Tetrachloroethylene	3	ND	0.47	0.48
Toluene	5,200	3.5	3.3	1.8
Trichlorofluoromethane	730	3.3	2	1.3
m,p-Xylene	100	1.8	0.91	1.3
o-Xylene	100	0.52 J	ND	ND
Xylenes (total)	100	2.3	0.91	1.3

Only compounds detected at one or more sample locations above the analytical reporting limits are listed in this table.

All results are in micrograms per cubic miter (ug/m3).

J: Estimated value.

NA: An indoor air screening level is currently not available for this compound.

ND: Not detcted.

E: Indicates value exceeded the calibration range.

On-Site Environmental, Inc.

Consulting Assessment Remediation

4/2/13

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, New Jersey 08625-0420

Sent Via US Mail

Re: Indoor Air Sampling at:
Csepes Residence
359 Washington Place
North Brunswick Twp., NJ 08902

For: North Brunswick Gulf, Inc.
1696 Georges Road Rt 130
North Brunswick Twp./Middlesex County
NJDEP Case #: 01-08-301546-07
PI #: 010180

Dear NJDEP:

Enclosed please find the following:

- Full Laboratory Data Deliverables (hard copy & CD) and Form for air samples collected at the Csepes residence as part of the vapor intrusion investigations conducted relative to the North Brunswick Gulf, Inc. site referenced above.
- Building inspection form with sample locations.
- Site map: Figure 1.
- Copy of letter sent on March 21, 2013 to the NJDOH.

Note the following item was submitted to NJDEP Case Assignment & Initial Notice on March 21, 2013.

- A copy of the letter sent to the home owner that presents the results of the air samples.

Also on 3/10/13, electronic data deliverables were submitted to srpedd@dep.state.nj.us.

If you have any questions regarding the FLDD form, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

On-Site Environmental, Inc.
Frank Jasiulewicz, LSRP

cc: Becky Basch: RedHawk (via email w. attachments)
Judy Lapp: (via email w. attachments)
Barbara Konnz, Esq.: Wilentz, Goldman & Spitzer, P.A. (via email w. attachments)
Kenneth P. Westreich, Esq. (Swain and Westreich, LLC (via email w. attachments)
Marla Fields: Liberty Mutual (via email w. attachments)

On-Site Environmental, Inc.
119 Shepherds Way Coatesville, Pa. 19320
Phone 610-384-2719 • Fax 610-384-2709

New Jersey Department of Environmental Protection
Site Remediation Program

FULL LABORATORY DATA DELIVERABLES FORM

☒ LSRP ☐ Subsurface Evaluator

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NorthBrunswick Gulf, Inc.

List all AKAs:

Street Address: 1696 Georges Road RT 130

Municipality: North Brunswick (Township, Boro or City)

County: Middelsex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-301546-07

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☒ No

If "Yes," please list the Case Manager:

SECTION C. REMEDIAL PHASE

☐ Immediate Environmental Concern
☒ Site Investigation Report
☐ Remedial Action Report
☐ Preliminary Assessment Report
☐ Remedial Investigation/Remedial Action Work Plan
☐ Response Action Outcome

SECTION D. Matrix Type/Analysis and Number of Samples

☐ Potable Well Water # of samples: Sampling Date:
Analytical Method(s)

☐ Indoor Air # of samples: 2 Sampling Date: 02/19/2013
Analytical Method TO-15

☐ Polychlorinated dibenzo-p-dioxins/polychlorinated dibenzofurans # of samples: Sampling Date:
Analytical Method

☐ Hexavalent chromium soil sample # of samples: Sampling Date:
Analytical Method

☐ Other Ambient air # of samples: 1 Sampling Date: 02/19/2013
Analytical Method TO-15

☐ Other # of samples: Sampling Date:
Analytical Method

☐ Other # of samples: Sampling Date:
Analytical Method

SECTION E. GENERAL

1. Was a full laboratory data deliverables package provided? ☒ Yes ☐ No
2. Was a certified laboratory(s) used for the analyses? ☒ Yes ☐ No
   Provide name of laboratory(s): Accutest
3. Were data summaries provided for all samples? ☒ Yes ☐ No
4. Were electronic deliverables submitted? ☒ Yes ☐ No
5. For air sample data, were the TO-15 Conversion Tables (hit-lists) provided on disc in the appropriate Excel format pursuant to the VIG? ☐ Yes ☐ No

Section F. Data Quality Assurance/Quality Control

1. Were the appropriate sample preservation requirements met? ☒ Yes ☐ No
2. Were appropriate sample holding times (for both extraction/sample preparation and analysis) met? ☒ Yes ☐ No
   If "No," provide a brief explanation.

3. Were the samples diluted? ☒ Yes ☐ No
   Indicate the identity of the samples and why.
   Sample JB209307-3 was diluted due to high concentrations.

4. If applicable, did sample dilutions result in elevated reporting limits that exceed applicable standards? ☐ Yes ☒ No
   If "Yes," list the affected samples.
   Note: No standard for ethanol.

5. Were any applicable standards exceeded for any samples? ☐ Yes ☒ No
   If "Yes," include the number of samples and laboratory sample identification numbers.

6. Were the laboratory reporting limits below the applicable remediation standards/criteria required for the site? ☒ Yes ☐ No
   If "No," provide a brief explanation of action taken.

7. Were qualifications noted in the non-conformance summary? ☒ Yes ☐ No
   Provide a brief explanation.
   Samples JB29307-1 and JB29307-3 had ethanol reported with an "E" qualifier indicating estimated value exceeding calibration range.

8. Were qualified data used? ☒ Yes ☐ No
9. Were rejections noted in the non-conformance summary? ☒ Yes ☐ No
   Provide a brief explanation.
   The summary indicates that Ethanol in samples JB29307-1 and JB29307-3 exceeded the calibration range. Note there is no NJDEP indoor air standard for ethanol.

10. Were rejected data used? ☐ Yes ☒ No

If "Yes," please indicate reasons rejected data were used:

- ☐ For Hex Chrome, data were rejected because spike recovery was less than 50%.
- ☐ Data were rejected due to missing deliverables.
- ☐ Data were rejected but an applicable standard exceedance exists.
- ☐ Data were rejected in an early phase of a remediation; however, additional sampling and analysis are scheduled to be performed.
- ☐ Other reasons not noted directly above. Explain:

The concentrations of ethanol were not used to compare to a standard because there is no standard for ethanol.

11. Were the quality control criteria associated with the compounds of concern at the site met?	☒ Yes	☐ No
12. Were the QC Summary Forms reviewed?	☒ Yes	☐ No
13. Surrogate recoveries acceptable	☒ Yes	☐ No
14. Internal Standards acceptable	☒ Yes	☐ No
15. MS/MSDs acceptable	☐ Yes	☐ No
16. Tune summaries acceptable	☒ Yes	☐ No
17. Calibration summaries acceptable	☒ Yes	☐ No
18. Serial dilutions acceptable	☐ Yes	☐ No
19. Inorganic duplicates acceptable	☐ Yes	☐ No
20. LCS recovery acceptable	☒ Yes	☐ No
21. Other QC acceptable?	☐ Yes	☐ No

Provide a brief explanation if applicable:

SECTION G. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: North Brunswick Gulf, Inc.

Representative First Name: Walter Representative Last Name: Lapp Sr.

Title: President

Phone Number: Ext: Fax:

Mailing Address: Shannondell at Valley Forge 11220 Shannondell Drive

City/Town: Audibon State: Pa. Zip Code: 19403

Email Address:

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Walter Lapp Sr. Date: 3/28/13

Name/Title: Walter Lapp Sr./President **No Changes Since Last Submittal** ☒

SECTION H. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 585751

First Name: Frank Last Name: Jasiulewicz

Phone Number: (610) 384-2719 Ext: Fax: (610) 384-2709

Mailing Address: 119 Shepherds Way

City/Town: Coatesville State: Pa. Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☒ *directly oversaw and supervised all of the referenced remediation, and\or*

☐ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Frank J Date: 4-2-13

LSRP Name/Title: Frank Jasiulewicz/President **No Changes Since Last Submittal** ☒

Company Name: On-Site Environmental, Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION I. SUBSURFACE EVALUATOR UST REPORT CERTIFICATION FORM

Certification by the Subsurface Evaluator:

I certify under penalty of law that the work was performed under my oversight and I have reviewed the report and all attached documents, and the submitted information is true, accurate and complete in accordance with the requirements of N.J.A.C. 7:14B and N.J.A.C. 7:26E. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information including fines and/or imprisonment.

Name: _____ UST Cert. No.: _____

Firm: _____ Firm's UST Cert. Number: _____

Firm Address: _____

City/Town: _____ State: _____ Zip Code: _____

Phone Number: _____ Ext: _____ Fax: _____

Signature: _____ Date: _____

No Changes Since Last Submittal ☐

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY and SAMPLING FORM

Preparer's name: Frank Jasiulewicz Date: 1/22/13 , 2/18/13

Preparer's affiliation: On-Site Environmental, Inc. Phone #: 610-384-2719

Site Name: Csepes Residence Case #: 01-08-301546-07

Part I - Occupants

Building Address: 359 Washington Place

Property Contact: Thomas Csepes (Owner) / Renter / other: _____

Contact's Phone: home _____ work ( ) _____ cell 732-421-4987

# of Building occupants: Children under age 13 0 Children age 13-18 0 Adults 2

Part II – Building Characteristics

Building type: (residential) / multi-family residential / office / strip mall / commercial / industrial

Describe building: 1 story ranch with finished basement & attached garage Year constructed: 1948-50

Sensitive population: day care / nursing home / hospital / school / other (specify): _____

Number of floors below grade: 1 (full basement) / crawl space / slab on grade)

Number of floors at or above grade: 1

Depth of basement below grade surface: 5 ft. Basement size: 2,091 ft^2

Basement floor construction: (concrete) / dirt / floating / stone / other (specify): With floor tiles

Foundation walls: poured concrete / (cinder blocks) / stone / other (specify) _____

Basement sump present? (*Yes*) / *No* Sump pump? (*Yes*) / *No* Water in sump? (*Yes*) / *No*

Type of heating system (circle all that apply):

hot air circulation	hot air radiation	wood	steam radiation
heat pump	(hot water radiation)	kerosene heater	electric baseboard
other (specify): _____			

Type of ventilation system (circle all that apply):

central air conditioning	mechanical fans	bathroom ventilation fans individual air
(conditioning units)	kitchen range hood fan	outside air intake
other (specify): _____		

Type of fuel utilized (circle all that apply):

(Natural gas) / electric / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? (*Yes*) (*No*)

Is there a whole house fan? *Yes / (No)*

Septic system? *Yes / (Yes) (but not used) / No*

Irrigation/private well? *Yes / (Yes) (but not used) / No*

Type of ground cover outside of building: (grass) / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? *Yes / (No)* *active / passive*

Sub-slab vapor/moisture barrier in place? *Yes / (No)*
Type of barrier: _____

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius): Yes, 2 Gas Stations

Other stationary sources nearby (gas stations, emission stacks, etc.): 2 Gas stations

Heavy vehicular traffic nearby (or other mobile sources): Heavy traffic

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	**Location(s)**	**Removed** (Yes / No / NA)
Gasoline storage cans		
Gas-powered equipment		
Kerosene storage cans		
Paints / thinners / strippers	Basement (Paints)	Yes
Cleaning solvents	Attached Garage	Yes
Oven cleaners	Attached Garage	Yes
Carpet / upholstery cleaners	Attached Garage	Yes
Other house cleaning products	Kitchen (Fantastic etc.)	Yes
Moth balls	Old, small container in basement	Yes
Polishes / waxes		Yes
Insecticides	Attached Garage	Yes
Furniture / floor polish		Yes
Nail polish / polish remover	Bedroom / Bathroom	Yes
Hairspray	Bedroom / Bathroom	Yes
Cologne / perfume	Bedroom / Bathroom	Yes
Air fresheners	Bathroom	Yes
Fuel tank (inside building)		NA
Wood stove or fireplace	Living Room (Fireplace)	NA
New furniture / upholstery		
New carpeting / flooring		NA
Hobbies - glues, paints, etc.		

Part V – Miscellaneous Items

Do any occupants of the building smoke? *Yes* / (*No*) How often? _____

Last time someone smoked in the building? _____ hours / *days* *ago*

Does the building have an attached garage directly connected to living space? (*Yes*) / *No*

If so, is a car usually parked in the garage? *Yes* / (*No*)

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? *Yes* / (*No*)

Do the occupants of the building have their clothes dry cleaned? (*Yes*) / *No*

If yes, how often? weekly / (monthly) / 3-4 times a year

Do any of the occupants use solvents in work? (*Yes*) / *No*

If yes, what types of solvents are used? Coolant agents, Water Solute oil

If yes, are their clothes washed at work? (*Yes*) / *No*

Have any pesticides/herbicides been applied around the building or in the yard? *Yes* / (No)

If so, when and which chemicals? _____

Has there ever been a fire in the building? (*Yes*) / *No* If yes, when? 3 years ago

Has painting or staining been done in the building in the last 6 months? *Yes* / (*No*)

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Frank Jasiulewicz & Ed Biele Phone number: 610-384-2719

Sample Source: (Indoor Air) / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas / (Ambient)

Sampler Type: Tedlar bag / Sorbent / (Stainless Steel Canister) / Other (specify): _____

Analytical Method: (TO-15) / TO-17 / other: _____ Cert. Laboratory: Accutest

Sample locations (floor, room):

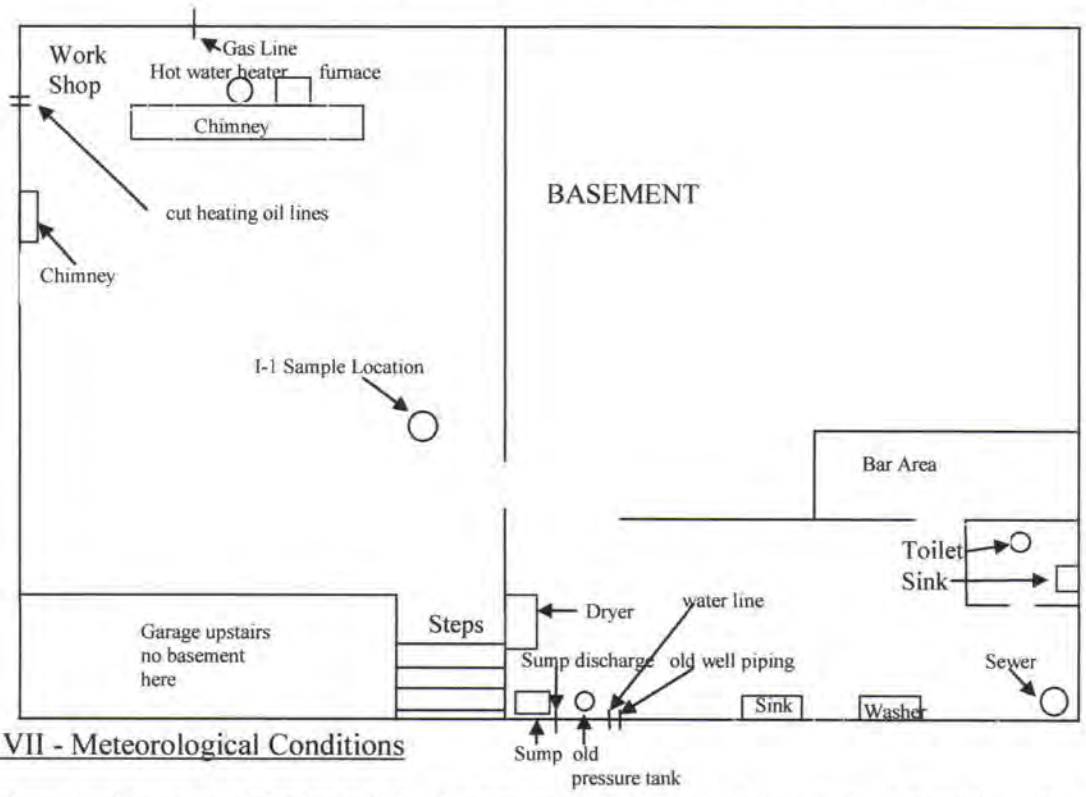
Field ID # 1 - 1 Basement Field ID # A - 3 Front porch

Field ID # 1 - 2 Living room Field ID # _____ - _____

Were "Instructions for Occupants" followed? (*Yes*) / *No*

If not, describe modifications: _____

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? *Yes* / (*No*)

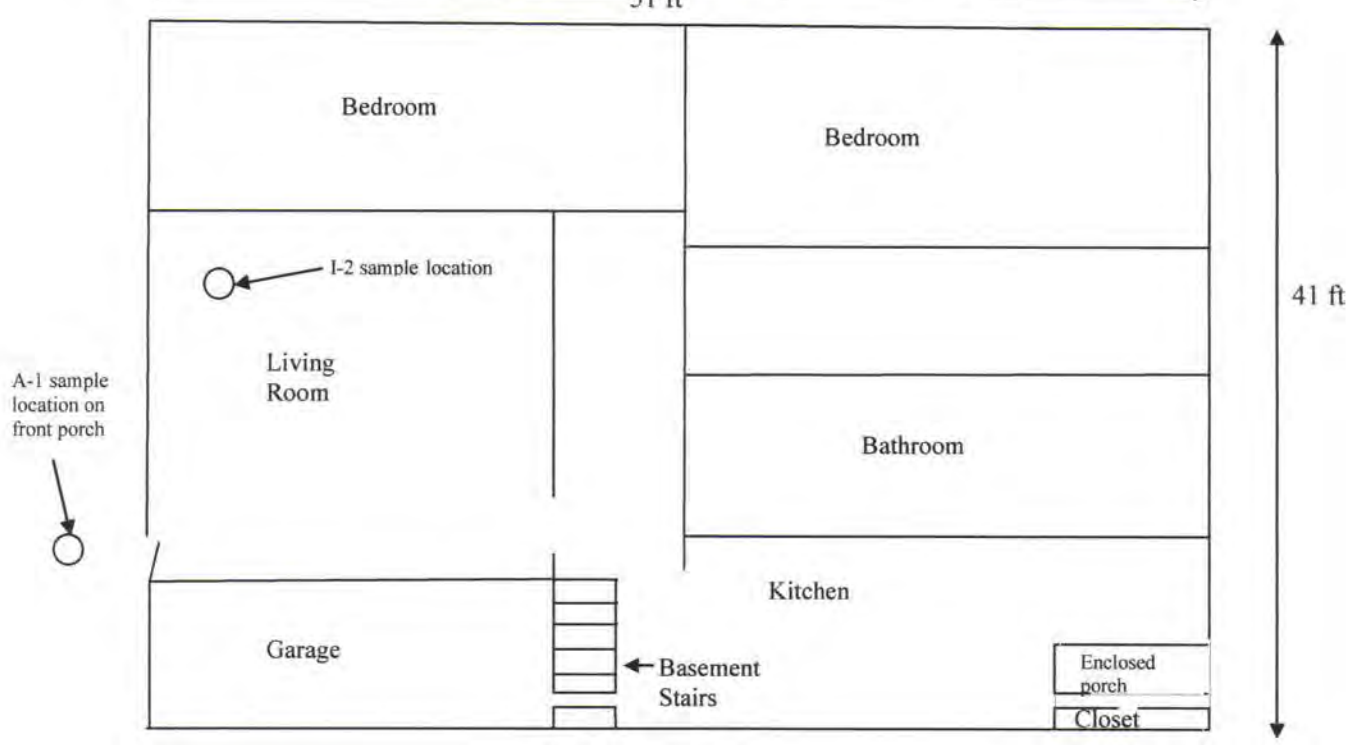
Describe the general weather conditions: cold 30 degrees breeze sunny

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Two old uncapped heating oil lines in basement protruding through wall just discovered before samples were started (not observed during building inspection last week). PID in lines were 7 & 13 ppmv. Taped lines closed with masking tape before starting sample.

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? *Yes* / (*No*)

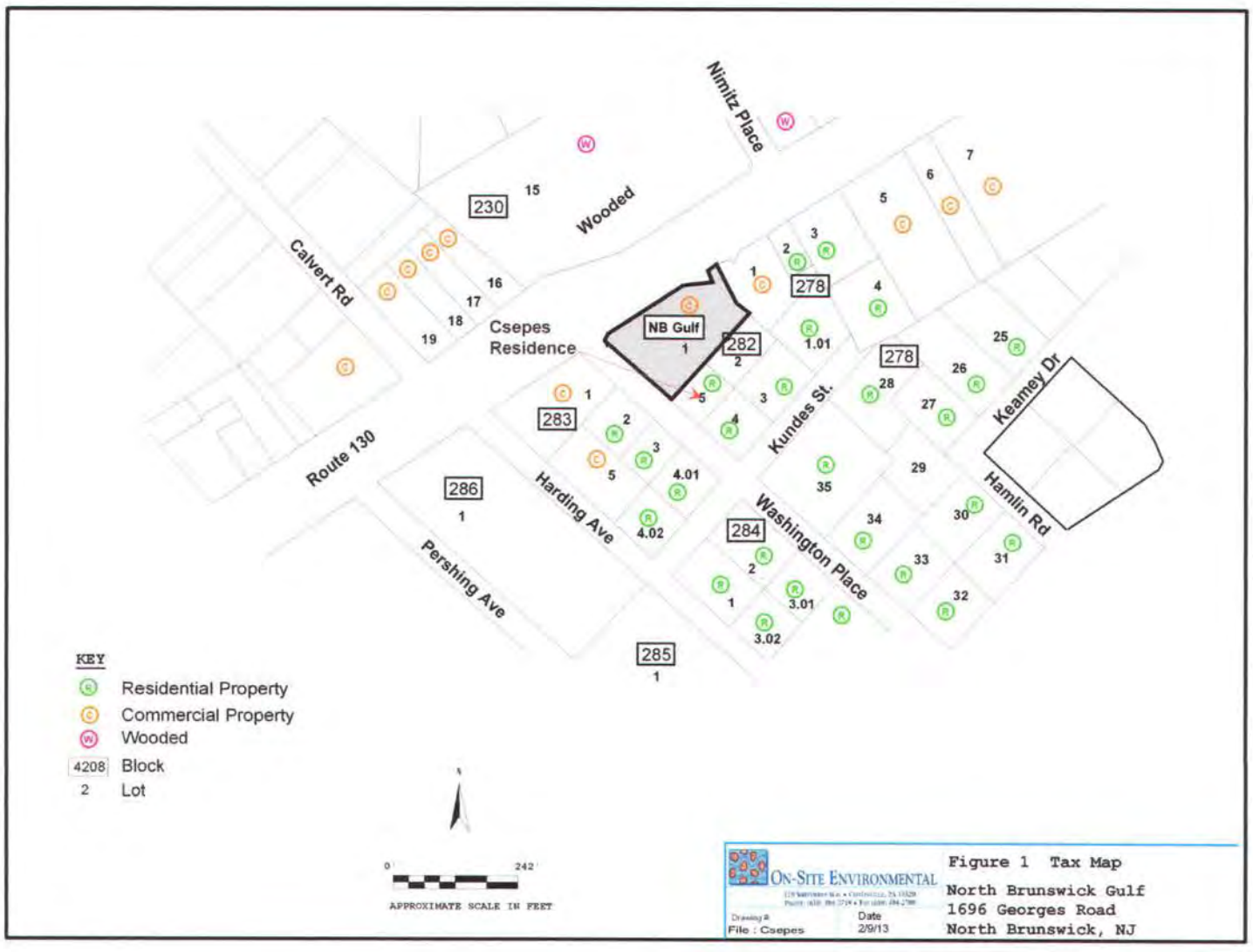
Describe the general weather conditions: cold sunny breeze 30 degrees

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Two old uncapped heating oil lines in basement protruding through wall just discovered before samples were started (not observed during building inspection last week). PID in lines were 7 & 13 ppmv. Taped lines closed with masking tape before starting sample

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)


Nimitz Place
Wooded
230
15
Calvert Rd
16
17
18
19
Csepes
Residence
NB Gulf
1
282
2
278
1.01
4
5
6
7
25
26
27
28
Kearney Dr
Kundes St.
283
1
2
3
4
5
4.01
4.02
Route 130
286
1
Harding Ave
Pershing Ave
285
1
284
2
1
3.01
3.02
Washington Place
29
35
34
33
30
31
32
Hamlin Rd
KEY
Residential Property
Commercial Property
Wooded
4208 Block
2 Lot
0
242
APPROXIMATE SCALE IN FEET
ON-SITE ENVIRONMENTAL
Drawing #
File : Csepes
Date
2/9/13
Figure 1 Tax Map
North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ

On-Site Environmental, Inc.

Consulting Assessment Remediation

March 21, 2013

New Jersey Department of Health
Po Box 360
Trenton, NJ 08625-0360

Sent via US mail

Re: Indoor and Ambient Air Sampling at:
Csepes Residence
359 Washington Place
North Brunswick Twp., NJ 08902
Block **282**, Lot **5**
Sampling Date: **2/19/13**

For: North Brunswick Gulf, Inc.
1696 Georges Road Rt 130
North Brunswick Twp./Middlesex County
NJDEP Preferred Identification #: 010180

Dear NJ Department of Health:

Enclosed please find a CD with the analytical laboratory package for two indoor and one ambient air sample collected at the Csepes residence referenced above. **Figure 1** shows the site and the sample locations are shown on the attached building inspection form that was completed for the sampling event. The sample IDs and sample locations are also identified on the building inspection form.

Sincerely,

On-Site Environmental, Inc.

Frank Jasiulewicz, LSRP
President

Enclosures: Laboratory data
Figure 1
Building inspection form

cc: Becky Basch: RedHawk Envir. Con. Ltd. (w. attachments via email)

On-Site Environmental, Inc.

Consulting Assessment Remediation

3/26/2018 Sent Via US Mail

Bureau of Case Assignment & Initial Notice
New Jersey Department of Environmental Protection
Site Remediation Program
401-05H
PO Box 420
Trenton, New Jersey 08625-0420

Re: Indoor Air Sampling at:
Csepes Residence
359 Washington Place
North Brunswick Twp., NJ 08902

For: North Brunswick Gulf, Inc.
1696 Georges Road Rt 130
North Brunswick Twp./Middlesex County
NJDEP Case #: 01-08-301546-07
PI #: 010180:

Dear NJDEP:

Enclosed please find a Full Laboratory Data Deliverable Form and full data deliverable package for indoor air samples collected at the Csepes residence as part of vapor intrusion investigations conducted relative to the North Brunswick Gulf site referenced above.

Electronic data deliverables (EDD) were emailed to the NJDEP on 3/16/18 at srpedd@dep.nj.us and the New Jersey Department of Health VI Data Submission Checklist was emailed on 3/21/18 to LSRPIA.Submission@doh.nj.gov as required. A copy of the letter sent to the owner/resident of 359 Washington Place and the Health Department summarizing the results is attached.

SAMPLE TYPE and LOCATIONS

A total of two (2) indoor air samples were collected by On-Site Environmental, Inc. during March 5 and 6, 2018 for TO-15 plus naphthalene analysis by SGS Accutest Laboratories. The samples field ID, sample type, location, and the address, block and lot where the samples were collected are listed below. **Figure 1** and the building inspection form (attached) shows the sample locations.

Field ID	Sample Type	Location	Address	Block	Lot
I-3	Indoor I Air	Basement	359 Washington Place	282	5
I-4	Indoor Air	Living Room	359 Washington Palce	282	5

An ambient sample (A-4) was also set off on the porch, however, there was a problem with the canister or regulator and no sample was actually collected.

SUMMARY of ANALYTICAL RESULTS

- No compound was detected above the residential indoor air screening level.

A summary of the analytical report is presented in **Table 1**.

Sincerely,

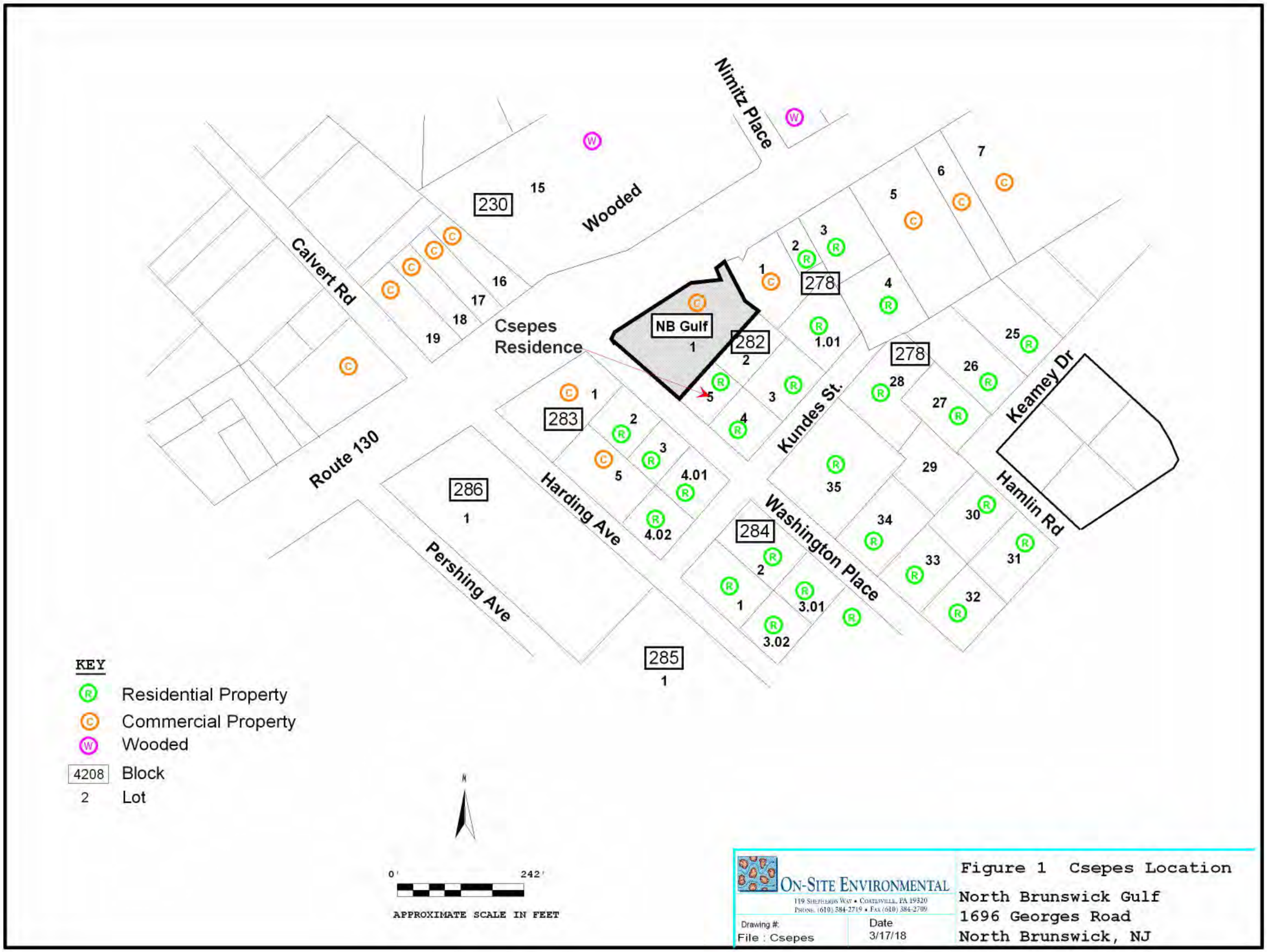


Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachment:

Figure 1
Table 1
FLDD Form
Letter to Owner/Resident
Building Inspection form
Full Data Deliverable Package
Electronic deliverables on CD

Cc: Walter Lapp (w. attachments via email)
Ruth Frey: (w. attachments via email)
Neal M. Pike (Resolute Management - w. attachments) via email
Jennifer L. Galoski (Resolute Management - w. attachments) via email



ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #:
File : Csepes

Date
3/17/18

Figure 1 Csepes Location
North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ

Residential Indooor Air Sampling Result Summary Table

1696 Route 130 LLC
A/K/A North Brunswick Gulf
1696 Georges Road Route 130
North Brunswick, NJ
NJDEP Program Interest #: 010180

Csepes Residence 359 Washington Place North Brunswick, Middelsex County Block 282; Lot 5	**NJDEP Residential Indoor Air Screening Level**	**Indoor Air Sampling Results Basement I-3**	**Indoor Air Sampling Results Living Room I-4**
Sample Date		**3/6/2018**	**3/6/2018**
Laboratory ID		**JC61802-1**	**JC61802-2**
Chemicals	**ug/m^3**	**ug/m^3**	**ug/m^3**
Acetone	32000	23	14
Benzene	2	0.51 J	0.61 J
Chloromethane	94	0.83	1.1
Carbon tetrachloride	3	ND	0.49 J
p-Dichlorobenzene	3	1.1 J	1.3
Ethanol	-	394 E	1440 E
Ethylbenzene	2	1.1	0.74 J
Ethyl Acetate	-	1.7	8.3
Heptane	-	0.70 J	0.49 J
Hexane	730	0.74	0.53 J
2-Hexanone	-	0.70 J	ND
Isopropyl Alcohol	-	6.9	15
Methyl ethyl ketone	5200	2.1	0.71
1,2,4-Trimethylbenzene	-	0.79 J	1.2
2,2,4-Trimethylpentane	-	1.2	0.79 J
Tetrachloroethylene	9	1.9	1.4
Tetrahydrofuran	-	1.3	ND
Toluene	5200	3.2	2.5
Trichlorofluoromethane	730	3.2	1.7
Vinyl Acetate	-	4.6	ND
m,p-Xylene	100	3.8	2.6
o-Xylene	100	1.4	1
Xylenes (total)	100	5.2	3.7

Notes:

All results are in micrograms per cubic meter (ug/m^3)

J: Estimated value

E: Estimated value excceds calibration range

- : Screening level for this chemical is currently unavailable

ND: Not Detected

No compound exceeded the residential indoor air screening level

Only compounds detected at one or more sample locations above the analytical reporting limits are listed in this table.

New Jersey Department of Environmental Protection
Site Remediation Program

FULL LABORATORY DATA DELIVERABLES FORM

☒ LSRP ☐ Subsurface Evaluator

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130, LLC

List all AKAs: North Brunswick Gulf

Street Address: 1696 Georges Road/Route 130

Municipality: North Brunswick (Township, Boro or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☒ No

If "Yes," please list the Case Manager: _____

SECTION C. REMEDIAL PHASE

☐ Immediate Environmental Concern
☐ Site Investigation Report
☐ Remedial Action Report
☐ Preliminary Assessment Report
☒ Remedial Investigation/Remedial Action Work Plan
☐ Response Action Outcome

SECTION D. Matrix Type/Analysis and Number of Samples

☐ Potable Well Water # of samples: _____ Sampling Date: _____
Analytical Method(s) _____

☒ Indoor Air # of samples: 2 Sampling Date: 03/06/2018
Analytical Method TO-15 with naphthalene

☐ Polychlorinated dibenzo-p-dioxins/polychlorinated dibenzofurans # of samples: _____ Sampling Date: _____
Analytical Method _____

☐ Hexavalent chromium soil sample # of samples: _____ Sampling Date: _____
Analytical Method _____

☐ Other _____ # of samples: _____ Sampling Date: _____
Analytical Method _____

☐ Other _____ # of samples: _____ Sampling Date: _____
Analytical Method _____

☐ Other _____ # of samples: _____ Sampling Date: _____
Analytical Method _____

SECTION E. GENERAL

1. Was a full laboratory data deliverables package provided? ☒ Yes ☐ No
2. Was a certified laboratory(s) used for the analyses? ☒ Yes ☐ No
   Provide name of laboratory(s): SGS Accutest
3. Were data summaries provided for all samples? ☒ Yes ☐ No
4. Were electronic deliverables submitted? ☒ Yes ☐ No
5. For air sample data, were the TO-15 Conversion Tables (hit-lists) provided on disc in the appropriate Excel format pursuant to the VIG? ☒ Yes ☐ No

Section F. Data Quality Assurance/Quality Control

1. Were the appropriate sample preservation requirements met? ☒ Yes ☐ No
2. Were appropriate sample holding times (for both extraction/sample preparation and analysis) met? ☒ Yes ☐ No
   If "No," provide a brief explanation.

3. Were the samples diluted? ☐ Yes ☒ No
   Indicate the identity of the samples and why.

4. If applicable, did sample dilutions result in elevated reporting limits that exceed applicable standards? ☐ Yes ☒ No
   If "Yes," list the affected samples.

5. Were any applicable standards exceeded for any samples? ☐ Yes ☒ No
   If "Yes," include the number of samples and laboratory sample identification numbers.

6. Were the laboratory reporting limits below the applicable remediation standards/criteria required for the site? ☒ Yes ☐ No
   If "No," provide a brief explanation of action taken.

7. Were qualifications noted in the non-conformance summary? ☒ Yes ☐ No
   Provide a brief explanation.
   JC61802-1 and JC61802-2 reported ethanol with an E qualifier indicating estimated value exceeded calibration range. J values were not mentioned in the non-conformance summary because they were qualified because the estimated values were below the laboratory reporting limit.

8. Were qualified data used? ☒ Yes ☐ No
9. Were rejections noted in the non-conformance summary? ☐ Yes ☒ No
   Provide a brief explanation.

10. Were rejected data used? ☐ Yes ☒ No

If "Yes," please indicate reasons rejected data were used:

- ☐ For Hex Chrome, data were rejected because spike recovery was less than 50%.
- ☐ Data were rejected due to missing deliverables.
- ☐ Data were rejected but an applicable standard exceedance exists.
- ☐ Data were rejected in an early phase of a remediation; however, additional sampling and analysis are scheduled to be performed.
- ☐ Other reasons not noted directly above. Explain:

11. Were the quality control criteria associated with the compounds of concern at the site met?	☒ Yes	☐ No
12. Were the QC Summary Forms reviewed?	☒ Yes	☐ No
13. Surrogate recoveries acceptable	☒ Yes	☐ No
14. Internal Standards acceptable	☒ Yes	☐ No
15. MS/MSDs acceptable	☒ Yes	☐ No
16. Tune summaries acceptable	☐ Yes	☐ No
17. Calibration summaries acceptable	☒ Yes	☐ No
18. Serial dilutions acceptable	☒ Yes	☐ No
19. Inorganic duplicates acceptable	☐ Yes	☐ No
20. LCS recovery acceptable	☐ Yes	☐ No
21. Other QC acceptable?	☒ Yes	☐ No
Provide a brief explanation if applicable:	☐ Yes	☐ No

SECTION G. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: 1696 Route 130, LLC

Representative First Name: Walter Representative Last Name: Lapp

Title: partner

Phone Number: (732) 710-7209 Ext: Fax:

Mailing Address: 555 Georges Road

City/Town: Dayton State: New Jersey Zip Code: 08810

Email Address: lapphouse@verizon.net

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date: 3/19/18

Name/Title: Walter Lapp/Partner

SECTION H. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 585751

First Name: Frank Last Name: Jasiulewicz

Phone Number: (610) 384-2719 Ext: Fax: (610) 384-2709

Mailing Address: 119 Shepherds Way

City/Town: Coatesville State: Pa. Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with N.J.S.A. 58:10C-14, and N.J.S.A. 58:10B-1.3b(1) and (2).

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☒ *directly oversaw and supervised all of the referenced remediation, and\or*

☐ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Frank Jasiulewicz Date: 3/22/18

LSRP Name/Title: Frank Jasiulewicz/President

Company Name: On-Site Environmental, Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION I. SUBSURFACE EVALUATOR UST REPORT CERTIFICATION FORM

Certification by the Subsurface Evaluator:

I certify under penalty of law that the work was performed under my oversight and I have reviewed the report and all attached documents, and the submitted information is true, accurate and complete in accordance with the requirements of N.J.A.C. 7:14B and N.J.A.C. 7:26E. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information including fines and/or imprisonment.

Name: _____ UST Cert. No.: _____

Firm: _____ Firm's UST Cert. Number: _____

Firm Address: _____

City/Town: _____ State: _____ Zip Code: _____

Phone Number: _____ Ext: _____ Fax: _____

Signature: _____ Date: _____

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

On-Site Environmental, Inc.

Consulting Assessment Remediation

3/26/18

Mr. Thomas Csepes
359 Washington Place
North Brunswick, New Jersey 08902

Sent via US mail

Re: Indoor Air Sampling at:
359 Washington Place
North Brunswick Twp./Middelsex County
Block 282, Lot 5
Sampling Date: 3/6/18

For: 1696 Route 130LLC
A/K/A North Brunswick Gulf, Inc.
1696 Georges Road Rt 130
North Brunswick Twp./Middelsex County
NJDEP Preferred Identification #: 010180

Dear Mr. Csepes:

I am writing on behalf of 1696 Route 130, LLC to provide you with the analytical results from indoor air samples collected at your property on March 6, 2018. The samples were collected as part of a vapor intrusion investigation due to the presence of volatile organic compounds in the ground water at the North Brunswick Gulf site. This sampling was conducted to follow up vapor intrusion testing performed at your property on February 19, 2013.

The sample**s** were analyzed for volatile organic compounds according to USEPA Method TO-15. The primary contaminants of concern associated with the North Brunswick Gulf site that could affect indoor air quality within your building (based on the latest ground water samples) include benzene, ethyl benzene and naphthalene. Since it has been some time since the initial samples were collected the samples were analyzed for the full list of volatile organic compounds and all analytical results above the laboratory's detection level are included in this letter and summary table**.** Therefore, if other volatile organics were detected beyond the ones mentioned above, those compounds are also reported for your information.

Summarized below and in the attached table are the analytical results of the indoor air sample**s** collected from your building. Due to a problem with the sample container that was used to collect an ambient (outdoor) sample the ambient sample was not analyzed. The New Jersey Department of Environmental Protection (NJDEP) Indoor Air Screening Levels referenced in the attached indoor air sampling result table are based upon typical exposure factors and assume the occupants of the building are exposed to the indoor air over a 25 to 30 year period. Any sampling result that exceeded an applicable NJDEP screening level is presented in bold type and shaded.

RESULTS:

- No compound was detected above the residential indoor air screening level.
- However, contaminant of concern (benzene and ethylbenzene) were detected in the samples. The levels could be related to vapor intrusion or background concentrations from ambient air or materials in your building.

Therefore, On-Site can not conclude at this time that the concentrations detected in your residence are related to vapor intrusion. Another sample of the indoor and ambient air will need to be collected during the next heating season to complete our vapor intrusion investigation

Please note that pursuant to New Jersey's Open Public Records Act (OPRA), all building surveys and vapor intrusion sampling results submitted to NJDEP during this investigation become part of the public record for the North Brunswick Gulf site. NJDEP is obligated to make this information available to any interested party that requests access to it through its Office of Record Access.

If you have any questions about your sampling results or the remedial activities underway at the North Brunswick Gulf site, please contact me at 610-384-2719/onsitefj@aol.com**.** For information about vapor intrusion, please see NJDEP's web page at www.nj.gov/dep/srp/guidance/vaporintrusion/indoor_air.htm.

Sincerely,

Frank Jasiulewicz, LSRP
President
On-Site Environmental, Inc.

Enclosures: Sampling Results Summary Table
Common Household Sources of Background Indoor Air Contamination
Building inspection form

cc:
Lester Jones: County Health Department (w. result summary table, inspection form)
NJDEP Case Assignment and Initial Notice (w. result summary table, inspection form)
Mr. Walter Lapp: (w. attachments via email)
Ms. Ruth Frey: (w. attachments via email)
Neal M. Pike: (w. attachments via email)
Jennifer L. Galoski: (w. attachments via email)

New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY and SAMPLING FORM

Preparer's name: Frank Jasiulewicz Date: 3/5 & 6/18

Preparer's affiliation: On-Site Environmental, Inc. Phone #: 610-384-2719

Site Name: Csepes Residence Case #: 01-08-301546-07

Part I - Occupants

Building Address: 359 Washington Place

Building Block: 282 Lot: 5

Property Contact: Ana & Thomas Csepes Owner / Renter / other: _____

Contact's Phone: home ( )_____ work ( )_____ cell (732) 421-4989

Part II – Building Characteristics

Building type: (residential) / multi-family residential / office / strip mall / commercial / industrial

Describe building: 1 story ranch with finished basement & attached garage _____

Sensitive population: day care / nursing home / hospital / school / other (specify): _____

Number of floors below grade: 1 (full basement) / crawlspace / slab on grade)

Approx. depth of basement below grade surface: 5 ft. Basement size: 2,091 ft^2

Basement floor construction: (concrete) / dirt / floating / stone / other (specify): _____

Foundation walls: poured concrete / (cinder blocks) / stone / other (specify) _____

Basement sump present? (*Yes*) / *No* Sump pump? (*Yes*) / *No* Water in sump? (*Yes*) / *No*

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? *Yes* / (*No*)

Is there a whole house fan? *Yes* / (*No*)

Type of ground cover outside of building: (grass) / concrete / (asphalt) / other (specify) _____

Existing subsurface depressurization (radon) system in place? *Yes* / (*No*) *active / passive*

Sub-slab vapor/moisture barrier in place? *Yes* / (*No*)
Type of barrier: _____

Part III – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	garage	yes
Gas-powered equipment	snow blower	yes
Kerosene storage cans		
Moth balls	basement	yes
Air fresheners	living room, bedroom, bathroom	yes
Fuel tank (inside building)	no	NA
Wood stove or fireplace	living room but not used	NA
New furniture / upholstery		
New carpeting / flooring		NA
Hobbies - glues, paints, etc.	paint in basement	yes
LIST OTHER IMPORTANT SOURCES IDENTIFIED:		
nail polish	bedroom	no

Part IV – Miscellaneous Items

Do any occupants of the building smoke? *Yes* / *No* How often? _____

Last time someone smoked in the building? _____years_____ hours / *days* *ago*

Does the building have an attached garage directly connected to living space? *Yes* / *No*

If so, is a car usually parked in the garage? *Yes* / *No*

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? *Yes* / *No*

Do the occupants of the building have their clothes dry cleaned? *Yes* / *No*

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? *Yes* / *No*

If yes, what types of solvents are used? Coolant agents, water solute oil

If yes, are their clothes washed at work? *Yes* / *No*

Has painting or staining been done in the building in the last 6 months? *Yes* / *No*

If yes, when _____ and where? _____

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

_____

_____

Part V – Sampling Information

Sample Technician: Frank Jasiulewicz Phone number: (610) 384 - 2719

Company: On-Site Environmental, Inc.

Sample Source: (Indoor Air) / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

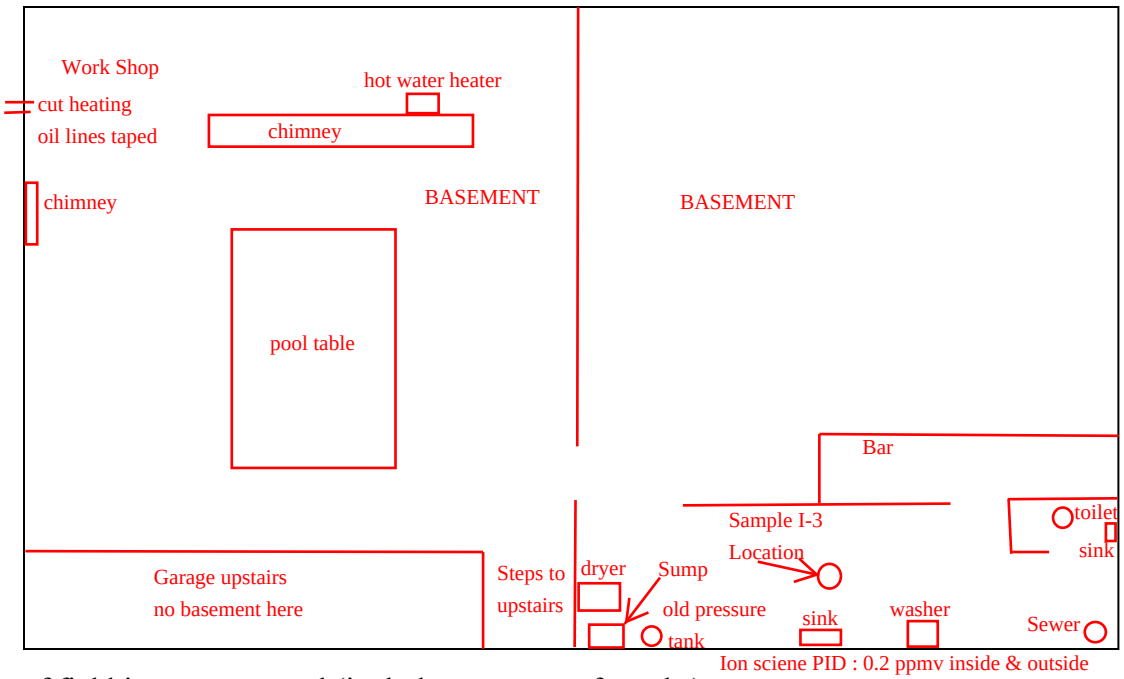
Were "Instructions for Occupants" followed? (*Yes*) / *No*

If not, describe modifications: _____

Sample locations (floor, room):

Sample #	Location	Analytical Method	Sample Volume	Sample Time	Sample Date	Sampler Type	Ambient Temp (°F)
I-3	basement	TO-15	6 liter	1054	3/5/18 start	Summa	71 inside
I-4	living room	TO-15	6 liter	1057	3/5/18 start	Summa	71 inside
A-4	front porch	TO-15	6 liter	1101	3/5/18 start	Summa	39 outside

Drawing of Sample Location(s) in Building



Type of field instrument used (include summary of results): Ion sciene PID : 0.2 ppmv inside & outside
Krestrel weather meter: 71 degrees inside
39 outside at start

Part VI - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? *Yes* / (*No*)

Describe the general weather conditions: mild sun and clouds, around 40 degrees, 10 mph wind on 3/5/18

_____



SOURCE: NJ GEOWEB ONLINE APPLICATION

VALET DRY CLEANERS' FACILITY
1674 HIGHWAY 130
NORTH BRUNSWICK TWP., MIDDLESEX COUNTY, NJ
NJDEP SRP PI #770820

FIGURE 1
SAMPLE LOCATION PLAN
A1 QUICK STOP
CONVENIENCE STORE

SCALE: AS SHOWN



SOURCE: NJ GEOWEB ONLINE APPLICATION

VALET DRY CLEANERS' FACILITY
1674 HIGHWAY 130
NORTH BRUNSWICK TWP., MIDDLESEX COUNTY, NJ
NJDEP SRP PI #770820

FIGURE 1
SAMPLE LOCATION PLAN
VALET DRY CLEANERS

SCALE: AS SHOWN

Valet Dry Cleaners Facility
1674 Highway 130
North Brunswick Twp., Middlesex County, New Jersey
NJDEP SRP PI #770820

Table 3
Analytical Results Summary - Sub-Slab Soil Gas Sampling ("Hits" Only)
A1 Quick Stop Convenience Store and Valet Dry Cleaners

Client Sample ID:	*NJ Vapor Intrusion Residential Soil Gas Screening Levels*	NJ Vapor Intrusion Non-Residential Soil Gas Screening Levels	CV-SG1	CV-SG2	DC-SG1	DC-SG2
Lab Sample ID:			JC65162-1	JC65162-2	JC65162-3	JC65162-4
Date Sampled:			4/28/2018	4/28/2018	4/28/2018	4/28/2018
GC/MS Volatiles (TO-15) - (µg/m³)						
Acetone	***1,600,000***	**6,800,000**	119	103	23	66.8
Benzene	***16***	**79**	3.1	2.9	ND (0.32)	ND (0.42)
Carbon disulfide	***36,000***	**150,000**	2.3 J	ND (0.40)	ND (0.40)	ND (0.50)
Chloroform	***24***	**27**	ND (0.59)	ND (0.59)	6.3	ND (0.78)
1,1-Dichloroethane	***76***	**380**	ND (0.53)	ND (0.53)	3.0 J	ND (0.65)
1,4-Dioxane	***NSL***	**NSL**	ND (0.68)	19	ND (0.68)	ND (0.86)
Dichlorodifluoromethane	***5,200***	**22,000**	2.4 J	ND (0.49)	ND (0.49)	ND (0.64)
trans-1,2-Dichloroethylene	***3,100***	**13,000**	ND (0.40)	ND (0.40)	12	ND (0.52)
cis-1,2-Dichloroethylene	***NSL***	**NSL**	ND (0.52)	ND (0.52)	227	38
Ethanol	***NSL***	**NSL**	26.2	61.4	22	45.4
Ethylbenzene	***49***	**250**	2.3 J	ND (0.40)	ND (0.40)	ND (0.48)
Ethyl Acetate	***NSL***	**NSL**	11	15	16	4
Isopropyl Alcohol	***NSL***	**NSL**	16	20	7.4	17
Methylene chloride	***4,800***	**61,000**	2.2 J	ND (0.45)	2.6 J	ND (0.56)
Methyl ethyl ketone	***260,000***	**1,100,000**	6.2	6.2	5	7.7
Propylene	***NSL***	**NSL**	ND (0.40)	1.6 J	ND (0.40)	ND (0.50)
1,2,4-Trimethylbenzene	***NSL***	**NSL**	2.8 J	ND (0.98)	ND (0.98)	ND (1.3)
Tertiary Butyl Alcohol	***NSL***	**NSL**	14	4.2	2.8	63.7
Tetrachloroethylene	***470***	**2,400**	234	116	**17,600**	**10,400**
Toluene	***260,000***	**1,100,000**	15	22	5.3	4.9
Trichloroethylene	***27***	**150**	0.81 J	ND (0.25)	**930**	**962**
m,p-Xylene	***5,200***	**22,000**	5.6	4.3	4.3	4.8
o-Xylene	***5,200***	**22,000**	2.1 J	ND (0.61)	ND (0.61)	ND (0.78)
Xylenes (total)	***5,200***	**22,000**	7.8	4.3	4.3	5

Notes:

µg/m³ - micrograms per cubic meter, or parts per billion
ND - not detected
NSL - no Screening Level established by the NJDEP
J - estimated value below the laboratory reporting limit.

Part V – Sampling Information

Sample Technician: Frank Jasiulewicz Phone number: (610) 384 - 2719

Company: On-Site Environmental, Inc.

Sample Source: (Indoor Air) / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

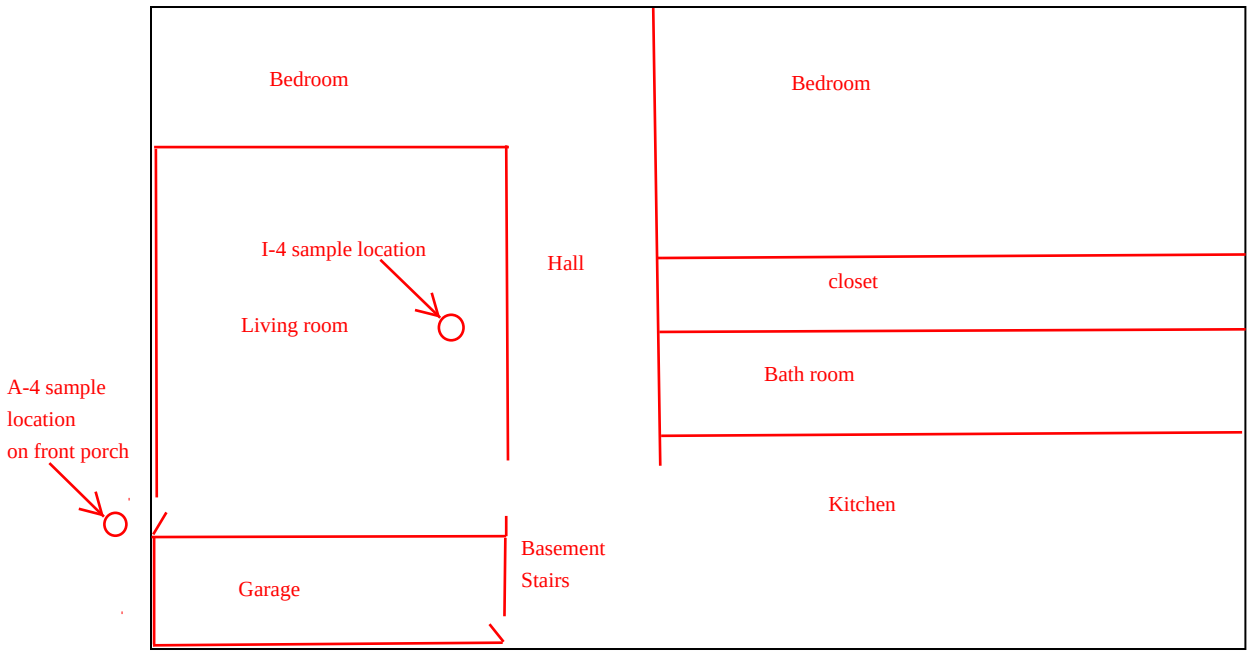
Were "Instructions for Occupants" followed? (*Yes*) / *No*

If not, describe modifications: _____

Sample locations (floor, room):

Sample #	Location	Analytical Method	Sample Volume	Sample Time	Sample Date	Sampler Type	Ambient Temp (°F)
I-3	basement	TO-15	6 L	1054	3/5/18 start	Summa	71 inside
I-4	living room	TO-15	6 L	1057	3/5/18 start	Summa	71 inside
A-4	front porch	TO-15	6 L	1101	3/5/18 start	Summa	39 outside

Drawing of Sample Location(s) in Building



Type of field instrument used (include summary of results): Ion Science PID: 0.2 ppmv inside & outside Krestrel weather meter: 71 inside 39 outside at start

Part VI - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? *Yes* / (*No*)

Describe the general weather conditions: mild sun & clouds, around 40, 10 mph wind on 3/5/18

_____

Appendix K

EDDs

Subject: **010180, LSR100001, 01-08-30-1546-07, HB228976, (Directory: KQL0143) - Passed**
Date: 7/31/2018 1:48:09 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (7/30/2018 3:13:01 PM) with the subjectline "010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: KQL0143
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 07/30/2018

This submission has been issued an SRP Catalog ID: HB228976

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_16817

Sub ID:SUB 60964

Subject: **010180, LSR100001, 01-08-30-1546-07, HB234466, (Directory: KSJ0449) - Passed**
Date: 1/8/2019 4:52:06 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (1/6/2019 11:48:23 AM) with the subjectline "[EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: KSJ0449
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 1/06/2019

This submission has been issued an SRP Catalog ID: HB234466

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_23526

Sub ID:SUB 67999

Subject: **010180,01-08-30-1546-07, HB144755 Passed**
Date: 3/10/2014 10:43:05 AM Eastern Standard Time
From: srpedd@dep.state.nj.us
To: OnsiteFJ@aol.com

The EDD submission shown below was processed 03/10/2014. This submission has passed and is cataloged in our system.
Your submission has been issued an SRP Catalog ID: HB144755
Thank You

The following identifiers were in the DTST file:
Directory: JB57955
DESC: North Brunswick Gulf
SRPID: 010830154607
Submit Date: 3/10/2014

If you are using the email to process your EDD with your key document, include a copy of this email with your key document package.
This is an automated message.

Subject: **010180, LSR100001, 01-08-30-1546-07, HB245022, (Directory: JB29307) - Passed**
Date: 8/27/2019 1:07:57 AM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (8/23/2019 17:19:05) with the subjectline "[EXTERNAL] 010180,LSR100001,010830154607"

The following identifiers were in the DTST file:

- Directory: JB29307
- DESC: Csepes Residence
- SRPID: 010830154607
- Submit Date: 03/10/2013

This submission has been issued an SRP Catalog ID: HB245022

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_35711

Sub ID:SUB_359491

Subject: **010180,01-08-30-1546-07, HB144756 Passed**
Date: 3/10/2014 10:43:06 AM Eastern Standard Time
From: srpedd@dep.state.nj.us
To: OnsiteFJ@aol.com

The EDD submission shown below was processed 03/10/2014. This submission has passed and is cataloged in our system.
Your submission has been issued an SRP Catalog ID: HB144756
Thank You

The following identifiers were in the DTST file:
Directory: JB60243
DESC: North Brunswick Gulf
SRPID: 010830154607
Submit Date: 3/10/2014

If you are using the email to process your EDD with your key document, include a copy of this email with your key document package.
This is an automated message.

Subject: **010180, 010830154607, HB202899 Passed**
Date: 2/14/2017 1:16:42 PM Eastern Standard Time
From: srpedd@dep.nj.gov
To: OnsiteFJ@aol.com
Cc: hazsite@dep.nj.gov

The EDD submission shown below was processed 02/14/2017. This submission has passed and is cataloged in our system.
The email containing your EDD had the subject line of: 010180,01-08-30-1546-07
it was sent on:

Your submission has been issued an SRP Catalog ID: HB202899
Thank You

The following identifiers were in the DTST file:
Directory: 1748422
DESC: North Brunswick Gulf
SRPID: 010830154607
Submit Date: 2/12/2017

If you are using the email to process your EDD with your key document, include a copy of this email with your key document package.
This is an automated message.

Subject: **010180, LSR100001, 01-08-30-1546-07, HB232759, (Directory: JC42109) - Passed**
Date: 11/27/2018 5:42:14 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (11/27/2018 8:44:14 AM) with the subjectline " [EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC42109
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 11/27/2018

This submission has been issued an SRP Catalog ID: HB232759

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_21513

Sub ID:SUB_65950

Subject: **010180, LSR100001, 01-08-30-1546-07, HB232758, (Directory: JC42109R) - Passed**
Date: 11/27/2018 5:41:30 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (11/27/2018 8:55:33 AM) with the subjectline " [EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC42109R
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 11/27/2018

This submission has been issued an SRP Catalog ID: HB232758

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_21512

Sub ID:SUB_65949

Subject: **010180, LSR100001, 01-08-30-1546-07, HB232760, (Directory: JC42231) - Passed**
Date: 11/27/2018 5:43:39 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (11/27/2018 8:14:08 AM) with the subjectline "[EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC42231
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 11/27/2018

This submission has been issued an SRP Catalog ID: HB232760

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_21514

Sub ID:SUB_65951

Subject: **010180, LSR100001, 01-08-30-1546-07, HB232762, (Directory: JC42929) - Passed**
Date: 11/27/2018 5:45:58 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (11/27/2018 7:41:39 AM) with the subjectline "[EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC42929
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 11/27/2018

This submission has been issued an SRP Catalog ID: HB232762

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_21516

Sub ID:SUB 65953

Subject: **010180, LSR100001, 01-08-30-1546-07, HB232761, (Directory: JC42929R) - Passed**
Date: 11/27/2018 5:44:33 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (11/27/2018 7:57:52 AM) with the subjectline "[EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC42929R
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 11/27/2018

This submission has been issued an SRP Catalog ID: HB232761

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_21515

Sub ID:SUB 65952

Subject: **010180, 010830154607, HB208768 Passed**
Date: 5/27/2017 12:14:41 AM Eastern Standard Time
From: srpedd@dep.nj.gov
To: OnsiteFJ@aol.com
Cc: hazsite@dep.nj.gov

The EDD submission shown below was processed 05/27/2017. This submission has passed and is cataloged in our system.
The email containing your EDD had the subject line of: 010830154607
it was sent on:

Your submission has been issued an SRP Catalog ID: HB208768
Thank You

The following identifiers were in the DTST file:
Directory: JC43105
DESC: North Brunswick Gulf
SRPID: 010830154607
Submit Date: 5/26/2017

If you are using the email to process your EDD with your key document, include a copy of this email with your key document package.
This is an automated message.

Subject: **010180, LSR100001, 01-08-30-1546-07, HB232755, (Directory: JC52345) - Passed**
Date: 11/27/2018 5:40:12 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (11/27/2018 9:14:17 AM) with the subjectline " [EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC52345
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 11/27/2018

This submission has been issued an SRP Catalog ID: HB232755

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_21509

Sub ID:SUB 65946

Subject: **010180, LSR100001, 01-08-30-1546-07, HB232754, (Directory: JC52433) - Passed**
Date: 11/27/2018 5:38:59 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (11/27/2018 10:14:13 AM) with the subjectline "[EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC52433
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 11/27/2018

This submission has been issued an SRP Catalog ID: HB232754

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_21508

Sub ID:SUB_65945

Subject: **010180, LSR100001, 01-08-30-1546-07, HB232752, (Directory: JC61097) - Passed**
Date: 11/27/2018 5:36:42 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (11/27/2018 10:32:07 AM) with the subjectline "[EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC61097
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 11/27/2018

This submission has been issued an SRP Catalog ID: HB232752

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_21506

Sub ID:SUB 65943

Subject: **010180, LSR100001, 01-08-30-1546-07, HB233253, (Directory: JC61183) - Passed**
Date: 12/10/2018 3:41:16 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (12/7/2018 8:39:19 AM) with the subjectline "[EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC61183
- DESC: North Brunswick Gulf, 1696 Georges Road
- SRPID: 010830154607
- Submit Date: 11/27/2018

This submission has been issued an SRP Catalog ID: HB233253

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_22093

Sub ID:SUB 66634

Subject: **010180, LSR100001, 01-08-30-1546-07, HB223787, (Directory: JC61802) - Passed**
Date: 3/19/2018 3:17:20 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (3/16/2018 2:15:20 PM) with the subjectline "010180,LSR100001,01-08-30-1546-07".

The following identifiers were in the DTST file:

- Directory: JC61802
- DESC: Csepes Residence
- SRPID: 010830154607
- Submit Date: 03/16/2018

This submission has been issued an SRP Catalog ID: HB223787

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_10706

Sub ID:SUB 54906

Subject: **010180, LSR100001, 01-08-30-1546-07, HB232802, (Directory: JC66860) - Passed**
Date: 11/29/2018 10:26:02 AM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (11/28/2018 2:53:39 PM) with the subjectline " [EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC66860
- DESC: North Brunswick Gulf, 1696 Georges Road
- SRPID: 010830154607
- Submit Date: 11/28/2018

This submission has been issued an SRP Catalog ID: HB232802

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_21560

Sub ID:SUB_65986

Subject: **010180, LSR100001, 01-08-30-1546-07, HB232799, (Directory: JC73820) - Passed**
Date: 11/29/2018 9:23:01 AM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (11/28/2018 3:15:14 PM) with the subjectline " [EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC73820
- DESC: North Brunswick Gulf, 1696 Georges Road
- SRPID: 010830154607
- Submit Date: 11/28/2018

This submission has been issued an SRP Catalog ID: HB232799

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_21557

Sub ID:SUB_65983

Subject: **010180, LSR100001, 01-08-30-1546-07, HB233505, (Directory: JC75394) - Passed**
Date: 12/12/2018 2:53:37 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (12/12/2018 10:18:40 AM) with the subjectline "[EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC75394
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 12/12/18

This submission has been issued an SRP Catalog ID: HB233505

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_22361

Sub ID:SUB 66794

Subject: **010180, LSR100001, 01-08-30-1546-07, HB233509, (Directory: JC78017) - Passed**
Date: 12/12/2018 2:57:26 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (12/12/2018 9:57:50 AM) with the subjectline "[EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC78017
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 12/12/18

This submission has been issued an SRP Catalog ID: HB233509

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_22365

Sub ID:SUB_66798

Subject: **010180, LSR100001, 01-08-30-1546-07, HB242660, (Directory: JC88638) - Passed**
Date: 6/20/2019 4:32:21 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (6/20/2019 10:55:06 AM) with the subjectline "[EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC88638
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 6/20/19

This submission has been issued an SRP Catalog ID: HB242660

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_32931

Sub ID:SUB_342032

Subject: **010180, LSR100001, 01-08-30-1546-07, HB245817, (Directory: JC88638R) - Passed**
Date: 9/25/2019 4:27:34 PM Eastern Standard Time
From: SRPEDD@dep.nj.gov
To: onsitefj@aol.com

The EDD submission via email from (onsitefj@aol.com) on (9/25/2019 1:12:39 PM) with the subjectline " [EXTERNAL] 010180,LSR100001,01-08-30-1546-07"

The following identifiers were in the DTST file:

- Directory: JC88638R
- DESC: North Brunswick Gulf
- SRPID: 010830154607
- Submit Date: 09/25/2019

This submission has been issued an SRP Catalog ID: HB245817

Submission status: Passed.

Please do **not** resubmit.

EDD data deliverable must be submitted only once.
- To fulfill Key Document requirements attach only a copy of this email as an appendix to the document.
- Do **not** resubmit any approved EDD deliverable as part of a portal submission.

Email ID: OEM_36645

Sub ID:SUB_365125

Appendix L

Site and Contact Update Form

Notice to Comply Form

Confirmed Discharge Notification

On-Site Environmental, Inc.

Consulting Assessment Remediation

April 6, 2106 Sent Via US Mail

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, New Jersey 08625-0420

RE: Site and Contact Information Update Form
North Brunswick Gulf
1696 Georges Road Rt 130
North Brunswick, NJ 08902
PI #: 010180
NJDEP Case # 01-08-30-1546-07 and 01-08-30-1549-55

Dear Ms. Pincay:

As discussed on March 31, 2016, the responsible party for the above referenced North Brunswick Gulf site has passed and the children (Walter Lapp Jr. and Ruth Frey) became the responsible parties. They established an organization for the site which is called 1696 Route 130 LLC. A Site and Contact Information Update Form is attached, which added Walter Lapp Jr. and Ruth Frey as the responsible parties.

If you have any questions regarding this correspondence please feel free to contact me at 610-384-2719.

Sincerely,
On-Site Environmental, Inc.

Frank Jasiulewicz, PG, SSE, LSRP
President

Cc: Walter Lapp Jr.: via email
Ruth Frey: via email
Craig Evans: via email

New Jersey Department of Environmental Protection
Site Remediation Program

SITE AND CONTACT INFORMATION UPDATE FORM

Date Stamp
(For Department use only)

SECTION A. EXISTING SITE NAME AND LOCATION

Site Name: North Brunswick Gulf

Street Address: 1696 Georges Road Rt 130

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180

Case Tracking Number(s): 01-08-30-1546-07 & 01-08-30-1549-55

SECTION B. INFORMATION TO BE UPDATED

Check all that apply then complete the corresponding section(s) of the form.

☐ **Changes in Site Address or Block and Lot Information**
- Section C. Changes in Site Address or Block and Lot Information, and
- Section H. Responsible Party Information and Certification

or

- Section I. Person Conducting Responsible for Remediation Information and Certification
- For changes in block and lot information **attach map(s)** showing old and new block and lot configurations.

☐ **Changes in Responsible Party *Contact Information***
- Section D. Changes in Responsible Party Contact Information
- Section H. Responsible Party Information and Certification

☒ **Add Yourself as a Responsible Party**
- Section E. Add Yourself as a Responsible Party
- Section H. Responsible Party Information and Certification

☐ **Changes in Person Responsible for Conducting Remediation *Contact Information***
- Section F. Changes in Person Responsible for Conducting Remediation Contact Information
- Section I. Person Responsible for Conducting Remediation Information and Certification

☐ **Changing the Person Responsible for Conducting Remediation**
- Section G. Changing the Person Responsible for Conducting Remediation, and
- Section I. Person Responsible for Conducting Remediation Information and Certification

☐ **Changes in LSRP *Contact Information***

Provide the new contact Information and compete the certification in:
- Section J. Licensed Site Remediation Professional Information And Certification

SECTION C. CHANGES IN SITE ADDRESS OR BLOCK AND LOT INFORMATION

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Complete only if you are submitting a change in block and lot numbers:

List **Old** Municipal Block and Lot Numbers:		List **New** Municipal Block and Lot Numbers:	
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____

SECTION D. CHANGES IN RESPONSIBLE PARTY CONTACT INFORMATION

Name of Organization / Affiliation: _____ *(cannot change)*

New Contact Information:

First Name of Contact: _____ Last Name of Contact: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Email Address: _____

Telephone Number: _____ Ext.: _____ FAX: _____

SECTION E. ADD YOURSELF AS A RESPONSIBLE PARTY

Name of Organization / Affiliation: 1696 RT 130 LLC

First Name of Contact: WALTER Last Name of Contact: LAPP JR

Mailing Address: 555 GEORGES RD.

City: DAYTON State: NJ Zip Code: 08810

Email Address: lapphouse@verizon.net

Telephone Number: 732-710-7209 Ext.: — FAX: —

SECTION F. CHANGES IN PERSON RESPONSIBLE FOR CONDUCTING REMEDIATION CONTACT INFORMATION

Name of Organization / Affiliation: _____

(cannot change in this section)

New Contact Information:

First Name of Contact: _____ Last Name of Contact: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Email Address: _____

Telephone Number: _____ Ext.: _____ FAX: _____

SECTION C. CHANGES IN SITE ADDRESS OR BLOCK AND LOT INFORMATION

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Complete only if you are submitting a change in block and lot numbers:

List **Old** Municipal Block and Lot Numbers:		List **New** Municipal Block and Lot Numbers:	
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____

SECTION D. CHANGES IN RESPONSIBLE PARTY CONTACT INFORMATION

Name of Organization / Affiliation: _____ *(cannot change)*

New Contact Information:

First Name of Contact: _____ Last Name of Contact: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Email Address: _____

Telephone Number: _____ Ext.: _____ FAX: _____

SECTION E. ADD YOURSELF AS A RESPONSIBLE PARTY

Name of Organization / Affiliation: 1696 Route 130 LLC

First Name of Contact: Ruth Last Name of Contact: Frey

Mailing Address: 43 Overlook Circle

City: Berwyn State: Pa Zip Code: 19312

Email Address: frey@email.chop.edu

Telephone Number: 215 307 5002 Ext.: _____ FAX: _____

SECTION F. CHANGES IN PERSON RESPONSIBLE FOR CONDUCTING REMEDIATION CONTACT INFORMATION

Name of Organization / Affiliation: _____

(cannot change in this section)

New Contact Information:

First Name of Contact: _____ Last Name of Contact: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Email Address: _____

Telephone Number: _____ Ext.: _____ FAX: _____

SECTION G. CHANGING THE PERSON RESPONSIBLE FOR CONDUCTING REMEDIATION

Provide the contact information and certification for the **Outgoing Person Responsible for Conducting Remediation** here and provide the contact information and certification for the **New Person Responsible for Conducting Remediation** in Section I. Person Responsible for Conducting Remediation Information and Certification.

Outgoing Person Responsible for Conducting Remediation

Name of Organization / Affiliation: _____

First Name of Contact: _____ Last Name of Contact: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Email Address: _____

Telephone Number: _____ Ext.: _____ FAX: _____

I am no longer the person responsible for conducting the remediation pursuant to N.J.S.A. 58:10C-2.

Signature: _____ Date: _____

Name/Title: _____

Note: If the LSRP assigned to this site will change, a completed LSRP Notification of Retention or Dismissal Form must be filed electronically through NJDEP Online at http://www.nj.gov/dep/online to dismiss the assigned LSRP, and a separate complete LSRP Notification of Retention or Dismissal Form must be filed to retain the new LSRP.

SECTION H. RESPONSIBLE PARTY INFORMATION AND CERTIFICATION

Full Legal Name of the Responsible Party: WALTER E LAPP JR

Name of Organization / Affiliation: 1696 RT 130 LLC

Representative First Name: WALTER Representative Last Name: LAPP JR

Title: OWNER / PARTNER

Phone Number: 732-710-7209 Ext: — Fax: —

Mailing Address: 555 GEORGES ROAD

City/Town: DAYTON State: NJ Zip Code: 08810

Email Address: LAPPHOUSE@VERIZON.NET

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date: 4/1/16

Name/Title: WALTER LAPP JR / OWNER / PARTNER

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION H. RESPONSIBLE PARTY INFORMATION AND CERTIFICATION

Full Legal Name of the Responsible Party: Ruth A. Frey

Name of Organization / Affiliation: 1696 Route 130 LLC

Representative First Name: RUTH Representative Last Name: FREY

Title: OWNER/PARTNER

Phone Number: 215-307-5002 Ext: Fax:

Mailing Address: 43 OVERBROOK CIRCLE

City/Town: BERWYN State: PA Zip Code: 19312

Email Address: FREYC@EMAIL.CHOP.EDU

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Ruth A. Frey Date: 3/30/16

Name/Title: RUTH FREY/OWNER/PARTNER

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION I. PERSON RESPONSIBLE FOR CONDUCTING REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of Person Responsible For Conducting Remediation: _____

Representative First Name: _____ Representative Last Name: _____

Title: _____

Phone Number: _____ Ext: _____ Fax: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Email Address: _____

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: _____ Date: _____

Name/Title: _____

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION J. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND CERTIFICATION

LSRP ID Number: 585751

First Name: Frank Last Name: Jasiulewicz *(cannot change with this form)*

Phone Number: (610) 384-2719 Ext: Fax: (610) 384-2709

Mailing Address: 119 Shepherds Way

City/Town: Coatesville State: Pa. Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Frank Jasiulewicz Date: 4-6-16

LSRP Name/Title: Frank Jasiulewicz/President

Company Name: On-Site Environmental, Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

NOTICE OF FAILURE TO COMPLY WITH A MANDATORY OR EXPEDITED SITE-SPECIFIC REMEDIATION TIMEFRAME

Date Stamp
(For Department use only)

Site Information

Site Name: 1696 Rt 130 LLC

AKAs: North Brunswick Gulf

Street Address: 1696 Georges Road RT 130

Municipality: North Brunswick (*Township, Borough or City*)

County: Middelsex Zip Code:

Program Interest (PI) Number: 010180

Activity Number: LSR100001

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2: 08/30/2001

Person Responsible for Conducting Remediation

Full Legal Name: 1696 Rt 130 LLC (Walter Lapp & Ruth Frey) Title: partners

Mailing Address: 555 Georges Road

City/Town: Dayton State: NJ Zip Code: 08810

Phone Number: (732) 710-7209 Ext: Fax:

Email Address: Lapphouse@verizon.net

Notification Type:

Indicate the type of timeframe that is unlikely to be met: Timeframe Date: 03/01/2019

- ☐ Preliminary Assessment and/or Site Investigation (PA/SI)
- ☐ Initial Receptor Evaluation (RE)
- ☐ Immediate Environmental Concern (IEC)
- ☐ Remedial Investigation for LNAPL
- ☒ Remedial Investigation
- ☐ Remedial Action

LSRP NOTIFICATION STATEMENT

"In my professional judgment based on site history one or more applicable mandatory or expedited site-specific timeframes referenced in N.J.A.C. 7:26C-3 is unlikely to be met."

LSRP Name: Frank Jasiulewicz LSRP License #: 585751

Completed forms should be emailed to: srpnotifications@dep.nj.gov

State of New Jersey

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
SITE REMEDIATION AND WASTE MANAGEMENT PROGRAM
BUREAU OF CASE ASSIGNMENT &INITIAL NOTICE
401-05H
P.O. Box 420
Trenton, NJ 08625-0420

CATHERINE R. McCABE
Commissioner

May 15, 2019

Walter Lapp Jr.
Partner
1696 Route 130 LLC
555 Georges Road
Dayton, NJ 08810

Frank Jasiulewicz
President
On-Site Environmental, Inc.
119 Shepherds Way
Coatesville, PA 19320
License Number: 585751

Ruth Frey
Owner/Partner
1696 ROUTE 130 LLC
582 S Waterloo Rd
Devon, PA 19333

Walter Lapp Jr.
Partner
1696 ROUTE 130 LLC
555 Georges Road
Dayton, NJ 08810

Ruth Frey
Partner
1696 Route 130 LL
582 S. Waterloo Road
Devon, PA 19333

Walter Lapp .

President
LAPP WALTER SR
1696 Georges Rd
Middlesex, NJ 08902

Re: Confirmed Discharge Notification Submittal
NO BRUNSWICK GULF
1696 RT 130
North Brunswick, NJ 08902
North Brunswick Twp, Middlesex

Case Tracking #:	12577
SRP PI:	010180
Communication Center Number:	19-05-08-1010-08
Activity Number Reference:	CDN190001

Dear Frank Jasiulewicz,

This letter serves to advise that a Confirmed Discharge Notification form has been received by the New Jersey Department of Environmental Protection (NJDEP) for LAWRENCE FUEL LLC.

On May 7, 2009, the Site Remediation Reform Act (SRRA) was enacted. SRRA establishes criteria for the licensing of site remediation professionals who will assure that contaminated sites are remediated in accordance with the Technical Requirements for Site Remediation, N.J.A.C. 7:26E. SRRA authorizes the NJDEP to establish mandatory timeframes for the completion of each phase of remediation. These timeframes, as well as other requirements of the act, have been codified in regulations that became effective on November 4, 2009. The complete rule can be found at www.state.nj.us/dep/srp/regs/arrcs/arrcs_rule.pdf. N.J.A.C. 7:26C-2.4 identifies the requirements with which you must comply.

The person responsible for the remediation must retain a licensed site remediation professional (LSRP) within 45 days of the reported discharge. The retention of an LSRP can be completed using the NJDEP's online service found at www.njdeponline.com.

Sincerely,

Kirstin Hahn

Kirstin Hahn, Bureau Chief
Bureau of Case Assignment & Initial Notice

Appendix M

Timeframe Extension Request Form

New Jersey Department of Environmental Protection
Site Remediation Program

REMEDIAL TIMEFRAME NOTIFICATION FORM

☒ Extension Request
☐ Lengthen Remedial Investigation Report (RIR) Timeframe Notification
☐ Contaminated Media Notification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: North Brunswick Gulf

List all AKAs:

Street Address: 1696 Georges Road Rt 130

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180

Case Tracking Number(s) for this submission: 01-08-30-1546-07 01-08-30-1549-55

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☒ No

If "Yes," please list the Case Manager:

SECTION C. EXTENSION REQUEST

(Complete this section only if you are filing an extension request)

An extension is requested to the regulatory timeframe pursuant to NJAC 7:26C-3.2(b) or the mandatory or site specific timeframe pursuant to NJAC 7:26C-3.5 as follows:

Report Type	Current Regulatory Timeframe	Proposed Regulatory Timeframe**	Current Mandatory or Expedited Site Specific Timeframe	Proposed Mandatory or Expedited Site Specific Timeframe
Initial Receptor Evaluation*				
Preliminary Assessment Report*				
Site Investigation Report*				
Remedial Investigation Report*	03/01/2017	03/01/2019		
Remedial Action Report*				
LNAPL Interim Remedial Measures Report*				
Immediate Environmental Concern Engineered System Response Action Report				
Immediate Environmental Concern Source Control Report*				
Other (write in):				
Other (write in):				
Other (write in):				

* This report has a mandatory remediation timeframe
** This date cannot exceed the mandatory remediation timeframe.

Note: Extensions to the regulatory timeframe are deemed approved provided the requirements of N.J.A.C. 7:26C-3.2(b) are met. If these requirements are not met, the NJDEP will notify the requestor in writing the extension is denied.

Justification For Extension

1. Describe the cause or causes of the need for additional time to complete the work:

The responsible partry (Walter Lapp Sr.) passed in March 2014 and his wife passed in October 2015. Their children (Walter Lapp Jr. and Ruth Frey) inherited the site and became the responsible parties. They had to establish an LLC for the site. A Site and Contact Form naming Walter Lapp Jr. & Ruth Frey as the responsible parties was submitted to the NJDEP in April 2016. Additional time is required due to the change of the responsible parties.

2. Describe in detail the steps taken to minimize the additional time needed to complete the work:

(For any site where access is a cause of the need for additional time to complete the work, detail the steps taken to obtain access)

See # 1 above. Delays were unavoidable due to deaths in the family.

3. Additional information:

SECTION D. CONTAMINATED MEDIA NOTIFICATION (to Adjust RI/RA Regulatory Timeframes)

(Complete this section only when notifying the NJDEP of the discovery of contamination in any media other than soil.)

Contamination was discovered in:

- ☐ Ground Water Date: _____
- ☐ Sediment Date: _____
- ☐ Surface Water Date: _____

For sites not subject to N.J.S.A. 58:10C-27 wherein the remedial investigation must be completed by May 7, 2014, checking any box will increase the regulatory timeframe to complete the remedial investigation and remedial action from 3 years to 5 years and requires the Annual Remediation Fee Form be updated via the NJ Portal pursuant to N.J.A.C 7:26C-4.3(e).

SECTION E. LENGTHEN RIR TIMEFRAME NOTIFICATION

(Complete this section only if you are lengthening the Remedial Investigation Report Regulatory Timeframe)

1. Is the request for an Industrial Establishment subject to ISRA?..... ☐ Yes ☐ No
2. Indicate the number of additional years requested beyond the initial Remedial Investigation Report Regulatory Timeframe due date. Number of Years: _____ (Maximum of 4 years)
3. The initial Remedial Investigation Report Regulatory Timeframe Due Date: ..... _____
4. The revised Remedial Investigation Report Regulatory Timeframe Due Date: ..... _____
5. Justification (check all that apply)
   - ☐ Access to real property not owned or controlled by the person responsible for conducting the remediation is required, or contamination has impacted an environmentally sensitive natural resource, as defined in N.J.A.C. 7:26E-1.8.
   - ☐ Ground water contamination exists in a consolidated aquifer or a dense non-aqueous phase liquid exists in ground water.
   - ☐ Ground water contamination exists in more than one aquifer or there are two or more distinct ground water contaminant plumes.
   - ☐ The person responsible for conducting the remediation wants a final remediation document for the entire site, the discharge was not discovered prior to May 7, 1999, and the site does not include an industrial establishment that the owner or operator are required to remediate pursuant to the Industrial Site Recovery Act, N.J.S.A. 13:1K-6 et seq., and the Industrial Site Recovery Act rules, N.J.A.C. 7:26B.

SECTION F. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: 1696 Rt 130 LLC

Representative First Name: Walter Representative Last Name: Lapp Jr.

Title: Partner

Phone Number: (732) 710-7209 Ext: Fax:

Mailing Address: 555 Georges Road

City/Town: Dayton State: New Jersey Zip Code: 08810

Email Address: Lapphouse@verizon.net

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date: 8/10/16

Name/Title: Walter Lapp Jr./Partner

Company Name 1696 Rt 130 LLC

SECTION F. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: 1696 Rt 130 LLC

Representative First Name: Ruth Representative Last Name: Frey

Title: Partner

Phone Number: (215) 307-5002 Ext: Fax:

Mailing Address: 43 Overbrook Circle

City/Town: Berwyn State: Pa. Zip Code: 19312

Email Address: Frey@email.chop.edu

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Ruth A Frey Date: 8/11/16

Name/Title: Ruth Frey/ Partner

Company Name 1696 Rt 130 LLC

SECTION G. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 585751

First Name: Frank Last Name: Jasiulewicz

Phone Number: (610) 384-2719 Ext: Fax: (610) 384-2709

Mailing Address: 119 Shepherds Way

City/Town: Caotesville State: Pa. Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☒ *directly oversaw and supervised all of the referenced remediation, and\or*

☐ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Date: 9-7-16

LSRP Name/Title: Frank Jasiulewicz/President

Company Name: On-Site Environmental, Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

Appendix N

Preliminary Assessment Forms

&

Updated Case Inventory Document

New Jersey Department of Environmental Protection
Site Remediation Program

COVER/CERTIFICATION FORM

(Submit with Remedial Phase Report, Receptor Evaluation, and CEA Forms)

Date Stamp
(For Department use only)

SECTION A. SITE INFORMATION

Site Name: North Brunswick Gulf

AKAs: 1696 Georges Road and 1696 Rt 130, LLC

Street Address: 1696 Rt 130

Municipality: North Brunswick (*Township, Borough or City*)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180

Case Tracking Number(s) for this submission: 01-08-30-1549-55 and 01-08-30-1546-07

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2: 08/30/2001

State Plane Coordinates for a central location at the site: Easting: 500,266.35 Northing: 586,393.95

List current Municipal Block and Lot Numbers of the Site:

Block # 282	Lot #(s) 1	Block #	Lot #(s)
Block #	Lot #(s)	Block #	Lot #(s)
Block #	Lot #(s)	Block #	Lot #(s)
Block #	Lot #(s)	Block #	Lot #(s)

SECTION B. SUBMISSION STATUS

1. Indicate how the Electronic Data Deliverable (EDD) for this submission is being provided to the NJDEP:
   - ☐ Via Email at srpedd@dep.state.nj.us (attach NJDEP confirmation email); or
   - ☐ CD (attach to this submission)
   - ☒ Not Applicable – No EDD
2. Complete the following Submission and Permit Status Table:

Remedial Phase Documents	N/A	Included in this Submission	Previously Submitted	Date of Submission	Date of Revised Submission	Date of Previous NJDEP Approval	Date of Document Withdrawal
Preliminary Assessment Report	☐	☒	☐	09/07/2016			
Site Investigation Report	☐	☐	☐				
Remedial Investigation Report	☐	☐	☐				
Remedial Action Work Plan	☐	☐	☐				
Remedial Action Report	☐	☐	☐				
Response Action Outcome	☐	☐	☐				
Other Submissions							
Alternative Soil Remediation Standard and/or Screening level Application Form	☐	☐	☐				
Case Inventory Document		☒		09/07/2016			
Classification Exception Area / Well Restriction Area (CEA/WRA)	☐	☐	☐				
Discharge to Ground Water Permit by Rule Authorization Request	☐	☐	☐				

IEC Engineered System Response Action Report	☐	☐	☐				
Immediate Environmental Concern Report	☐	☐	☐				
LNAPL Interim Remedial Measure Report	☐	☐	☐				
Public Notification	☐	☐	☒	02/22/2012	07/06/2015		
Receptor Evaluation	☐	☐	☒	03/01/2012			
Technical Impracticability Determination	☐	☐	☐				
Vapor Concern Mitigation Report	☐	☐	☐				
Permit Application – list:	☐						
		☐	☐				
		☐	☐				
		☐	☐				
		☐	☐				
Radionuclide Remedial Action Report	☐	☐	☐				
Radionuclide Remedial Action Workplan	☐	☐	☐				
Radionuclide Remedial Investigation Report	☐	☐	☐				
Radionuclide Remedial Investigation Workplan	☐	☐	☐				

SECTION C. SITE USE

Current Site Use: (*check all that apply*)

☐ Industrial
☐ Residential
☒ Commercial
☐ School or child care
☐ Agricultural
☐ Park or recreational use
☐ Vacant
☐ Government
☐ Other: _____

Intended Future Site Use, if known: (*check all that apply*)

☐ Industrial
☐ Residential
☒ Commercial
☐ School or child care
☐ Park or recreational use
☐ Vacant
☐ Government
☐ Future site use unknown
☐ Other: _____

SECTION D. CASE TYPE: (*check all that apply*)

☐ Administrative Consent Order (ACO)
☐ Brownfield Development Area (BDA)
☐ Child Care Facility
☐ Chrome Site (Chromate chemical production waste)
☐ Coal Gas
☐ Due Diligence with RAO
☐ Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
☐ ISRA
☐ Landfill (SRP subject only)
☒ Regulated Underground Storage Tank (UST)
☐ Remediation Agreement (RA)/Remediation Certification
☐ School Development Authority (SDA)
☐ School facility
☐ Spill Act Defense – Government Entity
☐ Spill Act Discharge
☐ UST Grant/Loan
☐ Other: _____

Federal Case (*check all that apply*)

☐ RCRA GPRA 2020 ☐ CERCLA/NPL ☐ USDOD ☐ USDOE

1. Is the party conducting remediation a government entity? ..... ☐ Yes ☒ No

If "Yes," check one: ☐ Federal ☐ State ☐ Municipal ☐ County

SECTION E. PUBLIC FUNDS

Did the remediation utilize public funds? ..... ☐ Yes ☒ No

If "Yes," check applicable:

☐ UST Grant
☐ HDSRF Grant
☐ Spill Fund
☐ UST Loan
☐ HDSRF Loan
☐ Schools Development Authority
☐ Brownfield Reimbursement Program
☐ Landfill Reimbursement Program
☐ Environmental Infrastructure Trust

SECTION F. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: 1696 Rt 130, LLC

Representative First Name: Walter Representative Last Name: Lapp Jr.

Title: partner

Phone Number: (732) 710-7209 Ext: Fax:

Mailing Address: 555 Georges Road

City/Town: Dayton State: NJ Zip Code: 08810

Email Address: Lapphouse@verizon.net

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date: 8/31/16

Name/Title: Walter Lapp Jr./Partner

For CEA Submissions:

☒ Check this box if the person above is also the property owner of the site or their representative. If this person is not the site property owner, please ensure the site property owner's name and address is in the first line of the table in Section E.2 of the Classification Exception Area / Well Restriction Area (CEA/WRA) Fact Sheet Form.

SECTION F. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: 1696 Rt 130 LLC

Representative First Name: Ruth Representative Last Name: Frey

Title: Partner

Phone Number: (215) 307-5002 Ext: Fax:

Mailing Address: 43 Overbrook Circle

City/Town: Berwyn State: Pa. Zip Code: 19312

Email Address: Frey@email.chop.edu

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Ruth A Frey Date: 8/31/16

Name/Title: Ruth Frey/ Partner

Company Name 1696 Rt 130 LLC

SECTION G. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 585751

First Name: Frank Last Name: Jasiulewicz

Phone Number: (610) 384-2719 Ext: Fax: (610) 384-2709

Mailing Address: 119 Shepherds Way

City/Town: Coatesville State: Pa Zip Code: 19320

Email Address: onsitefj@aol.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with section 14 of P.L.2009 c.60 (N.J.S.A. 58:10C-14), and paragraphs (1) and (2) of subsection b. of section 30 of P.L.2009 c.60 (N.J.S.A. 58:10B-1.3b(1) and (2)).

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Frank J Date: 9-7-16

LSRP Name/Title: Frank Jasiulewicz/President

Company Name: On-Site Environmental. Inc.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

New Jersey Department of Environmental Protection
Site Remediation Program
PRELIMINARY ASSESSMENT / SITE INVESTIGATION FORM
(Also Use this Form For Unknown Source Investigations)
☒ PA ☐ SI ☐ Unknown Source Investigation

Date Stamp
(For Department use only)

A Phase I or Phase II is not equivalent to a Preliminary Assessment or Site Investigation; therefore, they are not acceptable substitutions.

SECTION A. SITE

Site Name: North Brunswick Gulf

Program Interest (PI) Number(s): 010180

Case Tracking Number(s) for this submission: 01-08-30-1549-55 and 01-08-30-1546-07

This form must be attached to the Cover/Certification Form

SECTION B. GENERAL

1. Prior to this submission have any NFAs/RAOs been issued for this site? ☐ Yes ☒ No
   a. Does the site currently have a Deed Notice? ☐ Yes ☒ No
   b. Does the site currently have a Classification Exception Area (CEA)? ☐ Yes ☒ No
   c. Has an order of magnitude evaluation been performed? ☒ Yes ☐ No ☐ N/A
2. Is the ground water at the site classified as a Class I Ground Water? ☐ Yes ☒ No
3. Are there potable wells on-site? ☐ Yes ☒ No
4. Has the remediation varied from the Technical Rules? ☐ Yes ☒ No

   If "Yes." provide the citation(s) from which the remediation has varied and the page(s) in the attached document where the rationale for the variance is provided.

   N.J.A.C. 7:26E-_____ Page _____
   N.J.A.C. 7:26E-_____ Page _____
   N.J.A.C. 7:26E-_____ Page _____

5. **Areas of Concern:**
   a) For PA or PA/SI Report, list each AOC.
   b) For SI Report or Unknown Source Investigation, check **only** AOCs documented in this submission

	Area of Concern	Currently Exists? ☒ if "Yes"	Formerly Existed? ☒ if "Yes"	Investigation: SI Conducted ☒ if "Yes"	Investigation: RI Proposed ☒ if "Yes"
1	Above ground storage tank and associated piping	☒	☒	☐	☐
2	Area of stressed vegetation	☐	☐	☐	☐
3	Area which receives flood or storm water from potentially contaminated areas	☒	☒	☐	☐
4	Chemical storage cabinet and closet	☐	☐	☐	☐
5	Compressor vent discharge	☐	☐	☐	☐
6	Discharge area pursuant to N.J.A.C. 7:1E	☐	☐	☐	☐
7	Discolored or spill area	☐	☐	☐	☐
8	Drainage swale and culvert	☒	☒	☐	☐
9	Drywell and sump	☐	☐	☐	☐
10	Dumpster	☐	☐	☐	☐
11	Electrical transformer and capacitor	☐	☐	☐	☐

12	Floor drain collection system	☐	☒	☐	☐
13	Former agricultural applied pesticide area	☐	☐	☐	☐
14	Hazardous material storage or handling area	☐	☒	☐	☐
15	Historic fill or any other fill material	☐	☐	☐	☐
16	Hydraulic lift	☐	☒	☐	☐
17	Incinerator	☐	☐	☐	☐
18	Landfill or landfarm	☐	☐	☐	☐
19	Loading and unloading area	☐	☐	☐	☐
20	Non-contact cooling water discharge	☐	☐	☐	☐
21	Open area away from production area	☐	☐	☐	☐
22	Piping, above ground and below ground pumping station, sump and pit	☐	☐	☐	☐
23	Process area sink and piping which receive process waste	☐	☐	☐	☐
24	Rail car	☐	☐	☐	☐
25	Roof leader when process operations vent to the roof	☐	☐	☐	☐
26	Septic system, leachfield or seepage pit	☐	☒	☐	☐
27	Silo	☐	☐	☐	☐
28	Sprayfield	☐	☐	☐	☐
29	Storage pad including drum and/or waste storage	☒	☒	☐	☐
30	Storm sewer and spill containment collection system	☐	☐	☐	☐
31	Storm water detention pond and fire pond	☐	☐	☐	☐
32	Surface impoundment and lagoon	☐	☐	☐	☐
33	Surface water body	☐	☐	☐	☐
34	Underground piping including industrial process sewer	☐	☐	☐	☐
35	Underground storage tank and associated piping	☒	☒	☐	☐
36	Waste pile as defined by N.J.A.C. 7:26	☐	☐	☐	☐
37	Waste water treatment	☐	☐	☐	☐
38	Other: _____	☐	☐	☐	☐

SECTION C. PRELIMINARY ASSESSMENT

Complete this section only if you are submitting a PA

1. Was an inspection of the site conducted? ☒ Yes ☐ No

   Date of the most recent inspection: 06/03/2016

2. Did the PA identify any areas of concern? ☒ Yes ☐ No
3. Identify the location in the report (e.g. page #, Figure #, Appendix #) of the site map showing AOCs: Figure 3
4. Identify all current and historic industrial, commercial, agricultural or residential uses at the site dating back to the time the site was naturally vegetated.

   Provide the current and historic operators/operations. (attach additional sheets as necessary)

Name of Operator	Type of Operation – e.g., dry cleaning, electro-plating, residence	Dates of Operation Start	End
Walter Lapp Sr.	Gasoline service station & automobile repair	01/01/1957	11/17/1976
Walter Lapp Sr.	Gasoline service station & automobile repair	11/17/1976	01/01/1979
Walter Lapp Sr. & Jr.	Gasoline service station & automobile repair	01/01/1979	01/01/2003
Walter Lapp Sr. & Jr.	Gasoline service station	01/01/2003	01/01/2005

Precision Auto Repair	Automobile repair	01/01/2003	01/01/2004
Brunswick Auto Craft	Automobile repair	01/01/2006	08/30/2016
Avis Car Rental	Car rental	01/01/2008	12/30/2008
Fai Fuel Inc.	Gasolene & diesel sales	01/01/2005	
Shreeram gas Inc.	Gasolene & diesel sales	01/01/2007	01/01/2008
Hare Krishna Fuel Inc.	Gasolene & diesel sales	01/01/2013	08/30/2016

5. Have all regulated USTs on site been registered with the NJDEP? ☒ Yes ☐ No ☐ NA
   If "No," complete and submit an UST Facility Certification Questionnaire to the NJDEP to update the registration prior to submitting this form.
6. Have all regulated USTs that have been closed been delisted from the registration? ☒ Yes ☐ No ☐ NA
   If "No," complete and submit an UST Facility Certification Questionnaire to the NJDEP to update the registration prior to submitting this form.
7. Have any USTs been removed on/after September 4, 1990? ☒ Yes ☐ No ☐ NA
8. Including this submission, has an SI/RI report been submitted for all USTs closed on/after September 4, 1990? Preliminary SI/RI was submitted around May 2002 ☒ Yes ☐ No ☐ NA

SECTION D. SITE INVESTIGATION

Complete this section only if you are submitting a SI or Unknown Source Investigation Report

1. Does the SI address:
   ☐ Area(s) of Concern (AOCs) Only
   ☐ Entire Site (Based on a completed and submitted Preliminary Assessment/Site Investigation)
2. Total number of contaminated AOCs associated with the case: _____
3. Total number of contaminated AOCs addressed in this submission: _____
4. Identify the media impacted above applicable standards/screening levels (*check all that apply*).
   ☐ Soil ☐ Ground water ☐ Sediment ☐ Surface water
   ☐ Soil gas ☐ Indoor air
   ☐ No sampling results above applicable standards/screening levels.

If any media have been impacted above applicable standards/screening levels, identify the type of contamination below (*check all that apply*).

Soil	Ground Water	Sediment	Surface Water	Type Of Contamination
☐	☐	☐	☐	Volatile Organics
☐	☐	☐	☐	Polycyclic Aromatic Hydrocarbons(PAHs)
☐	☐	☐	☐	Acid Extractables
☐	☐	☐	☐	Base Neutrals (non-PAHs)
☐	☐	☐	☐	Metals (other than arsenic, chromium & mercury)
☐	☐	☐	☐	Pesticides
☐	☐	☐	☐	PHC
☐	☐	☐	☐	PCBs
☐	☐	☐	☐	Chromium
☐	☐	☐	☐	Dioxin
☐	☐	☐	☐	Mercury
☐	☐	☐	☐	Arsenic
☐	☐	☐	☐	Perchlorate, RDX, TNT, etc.
☐	☐	☐	☐	Other, specify: _____

5. Has a well search been conducted pursuant to N.J.A.C. 7:26E-1.14? ☐ Yes ☐ No

   If "Yes," are there any potable wells within 200' of the contaminated AOCs listed in Section F above or within 200' of the site boundary? ☐ Yes ☐ No

6. Has the presence of free product been identified? ☐ Yes ☐ No

7. Is an environmentally sensitive natural resource (ESNR) present on, adjacent to, or potentially impacted by the site? ☐ Yes ☐ No

   If "Yes," provide the following information:

   a. Specify the section/page(s) of the report where the site map showing the location of all ESNRs can be found (e.g. page #, Figure #, Appendix #): _____

   b. Are there visible signs of impact/impairment (e.g., discolored media, stressed vegetation, discharge/spill, seeps, fish kill)? ☐ Yes ☐ No

   c. Were land use permits required to complete any of the investigative activities? ☐ Yes ☐ No

   d. Specify the section/page(s) of the report where the land use permits are discussed: _____

8. Have Alternative Soil Remediation Standards (ASRS) been utilized for Inhalation and/or Ingestion/Dermal pathways? ☐ Yes ☐ No

9. Are you proposing an alternative remediation standard pursuant to N.J.A.C. 7:26D-7.4, alternate vapor intrusion screening level, or ecological site specific goal? ☐ Yes ☐ No

   If "Yes," attach the Alternative Remediation Standard and/or Screening Level Application Form as an addendum.

10. Was a site-specific screening level developed for the evaluation of the VI pathway? ☐ Yes ☐ No

11. Have any site specific Impact to Groundwater Soil Remediation Standards (IGWSRS) been established? ☐ Yes ☐ No

12. Was an Interim Soil Remediation Standard proposed where a Standard does not currently exist? ☐ Yes ☐ No

    If "Yes," attach the Alternative Remediation Standard and/or Screening Level Application Form as an addendum.

13. Is Historic Fill present? ☐ Yes ☐ No

    If "Yes":

    a). What is the evidence that Historic Fill is present?

    b). Are any other AOCs co-located within the Historic Fill? ☐ Yes ☐ No

    If "Yes," have the same contaminant types (e.g. lead arsenic, etc.) characterized as being present in the Historic Fill been sampled for as contaminants of concern at these co-located AOCs? ☐ Yes ☐ No

14. Is ground water contamination present above applicable standards? ☐ Yes ☐ No

    If "Yes,":

    a). Describe conditions:

    b). Is contaminated ground water present in bedrock aquifer? ☐ Yes ☐ No

    c). Is ground water contamination present at levels above Vapor Intrusion Screening Levels? ☐ Yes ☐ No

    If "Yes,":

    1). Was a vapor intrusion investigation conducted? ☐ Yes ☐ No

    2). Has a Vapor Concern (VC) or Immediate Environmental Concern (IEC) condition been identified? ☐ Yes ☐ No

15. Does this investigation address a discharge/release from a federally regulated UST? ☐ Yes ☐ No

Note: An UST system **is** Federally regulated *unless* one of the following conditions apply:

- The UST system is less than 110 gallons in rated volume;
- The UST system is a SUMP as defined in the UST regulations at N.J.A.C. 7:14B-1.6;
- The hazardous substance stored in the UST system is a RCRA regulated waste;
- The UST system contained heating oil used exclusively for onsite consumption;
- The UST system was used for motor fuel for non-commercial farm or residential purposes and the total rated capacity of all motor fuel USTs at the site is less than 1,100 gallons.

If you answered "Yes" to question 15, provide the following information:

Date Discharge Occurred or Identified: _____

Date Discharge Reported to the NJDEP: _____

Media Contaminated (*check all that apply*):
☐ Soil ☐ Groundwater ☐ Surface Water Receiving Water: _____

Tank ID (from Registration): _____ Tank System Size: _____

Contents: _____

If a Confirmed Discharge Notification (CDN) form has not been previously submitted to the NJDEP specifically for the discharge from a Federally Regulated UST, attach a completed CDN form to this submission.

16. Have all regulated USTs addressed in this submission been registered with the NJDEP? ☐ Yes ☐ No ☐ NA
If "No," complete and submit an UST Facility Certification Questionnaire to the NJDEP to update the registration prior to submitting this form.

17 Have all regulated USTs addressed in this submission that have been closed been delisted from the registration? ☐ Yes ☐ No ☐ NA
If "No," complete and submit an UST Facility Certification Questionnaire to the NJDEP to update the registration prior to submitting this form.

18. Are there any AOCs at which an SI was conducted and an RI/RA is <u>not</u> proposed? ☐ Yes ☐ No
If "Yes," answer the following questions, if "No," proceed to next section.

Answer the following questions <u>ONLY</u> for AOCs at which an SI was conducted and an RI and/or RA is <u>not</u> proposed:

19. Are any soil analytical results greater than the most stringent Direct Contact Soil Remediation Standards (DCSRS)? ☐ Yes ☐ No

20 Are any soil analytical results greater than the default Impact to Ground Water Soil Screening Levels (IGWSSL)? ☐ Yes ☐ No

21. Are any ground water analytical results greater than the Ground Water Quality Standards (GWQS)? ☐ Yes ☐ No ☐ NA

22. Are any Reporting Limits (RLs) greater than the applicable soil and/or ground water standards or screening levels? ☐ Yes ☐ No

23. Are any surface water analytical results greater than the most stringent Surface Water Quality Standards? ☐ Yes ☐ No ☐ NA

24. Are any sediment analytical results above the screening levels? ☐ Yes ☐ No ☐ NA

25. Are any soil analytical results greater than Soil Ecological Screening Criteria in an Environmentally Sensitive Natural Resource (ESNR)? ☐ Yes ☐ No ☐ NA

26. Are any analytical results above the vapor intrusion screening levels? ☐ Yes ☐ No ☐ NA

27. Did the SI demonstrate via background investigation per N.J.A.C. 7:26E-3.8 that contamination is naturally occurring? ☐ Yes ☐ No ☐ NA

28. Did the SI demonstrate via background investigation per N.J.A.C. 7:26E-3.9, that contamination is migrating onto this site? ☐ Yes ☐ No ☐ NA

29. Contamination is associated with an ongoing ISRA remediation not related to this investigation. ☐ Yes ☐ No ☐ NA

Complete only if sampling was conducted

1. Were all data submitted in the appropriate full and/or reduced formats according to the deliverables defined in N.J.A.C. 7:26E-2? ☐ Yes ☐ No
2. Do all data submitted meet the quality assurance/quality control (QA/QC) requirements incorporated by reference in N.J.A.C. 7:26E-2 for:
   sampling ☐ Yes ☐ No
   analysis ☐ Yes ☐ No
3. How was it determined that the data complied with the QA/QC requirements? *(check all that apply)*
   ☐ Laboratory non-conformance summary/narrative
   ☐ Laboratory correspondence
   ☐ LSRP review
   ☐ Independent contractor review
   ☐ Other: _____
4. Has any data been qualified and used? ☐ Yes ☐ No
5. Has any data been rejected and used? ☐ Yes ☐ No
6. Provide the page number for the "Reliability of Data" section of the report: _____

SECTION E. LABORATORY DATA

Complete only if sampling was conducted

1. Were all data submitted in the appropriate full and/or reduced formats according to the deliverables defined in N.J.A.C. 7:26E-2? ☐ Yes ☐ No
2. Do all data submitted meet the quality assurance/quality control (QA/QC) requirements incorporated by reference in N.J.A.C. 7:26E-2 for:
   - sampling ☐ Yes ☐ No
   - analysis ☐ Yes ☐ No
3. How was it determined that the data complied with the QA/QC requirements? *(check all that apply)*
   - ☐ Laboratory non-conformance summary/narrative
   - ☐ Laboratory correspondence
   - ☐ LSRP review
   - ☐ Independent contractor review
   - ☐ Other: _____
4. Has any data been qualified and used? ☐ Yes ☐ No
5. Has any data been rejected and used? ☐ Yes ☐ No
6. Provide the page number for the "Reliability of Data" section of the report: _____

	A	B	D	E	F	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	**Case Name:**	North Brunswick Gulf																		
2	**PI #:**	010180																		
3	**IMPORTANT:** *Do not copy and paste into more than 1 cell at a time because it can disrupt hidden equations*																			
4	**Case Inventory Document Version 1.3 06/25/14**																			
5	**AOC ID**	**AOC Type**	**AOC Details**	**Confirmed Contamination**	**AOC Status**	**Status Date**	**Incident #**	**DEP AOC Number**	**Contaminated Media**	**Contaminants of Concern**	**Additional Contaminants of Concern**	**Additional Contaminants of Concern**	**Applicable Remediation Standard**	**Exposure Route**	**Additional Exposure Route**	**RA Type**	**Additional RA Type**	**Additional RA Type**	**Was an Order of Magnitude Evaluation Conducted?**	**Activity**
6	AOC 1	Storage tank and appurtenance - Federal Regulated Under ground storage tank	Current UST Field: 1/12,000 gallon unleaded gasoline; 1/6,000 gallon unleaded gasoline; 1/6,000 gallon diesel	Yes	RI	5/1/2002	01-08-30-1546-07 and 01-08-30-1549-55		Mixed Media	VO+ Metals			Remediation Standards	Ground Water	Inhalation	Excavation	Pump & Haul	Pump & Treat		August 30, 2001 - Unleaded gasoline UST damaged during Phase II investigation. Interim remedial actions were performed and all USTs were removed in December 2001 - Soil in tank pit compliant to old standards. Soil above VOC standards in piping runs and at dispensers. Lead above direct contact standard in soil down gradient of tanks. May 2002 - Preliminary SI/RI submitted to NJDEP. June 2003 - New USTs installed in same location. October 2009 - Ground water delineated and VOC impacts are offsite. August 2016 PA - Additional soil and ground water sampling and preparation of CEA planned.
7	AOC 2	Storage tank and appurtenance - Federal Regulated Under ground storage tank	Old Pump island removed 1989/1999	Yes	PA	9/7/2016			Mixed Media	VO			Remediation Standards	Ground Water	Inhalation					1998/1999 - Pump island removed. 2001/2002 - VOC in soil and ground water above standards. October 2009 - Ground water delineated. Ground water impacts comingled with impacts at AOC 1. August 2016 PA - Additional soil and ground water sampling planned.
8	AOC 3	Other areas of concern - Any area suspected of containing contaminants	Lead in soil behind building. Source unknown.	Yes	PA	9/7/2016			Soil	Metals			Remediation Standards	Ingestion/Dermal						2009- Investigation identified lead in soil at 3 to 4 feet below grade at 1490 mg/kg & VOCs above direct contact & soil to ground water standards. Source is unknown. Area is near potential migration pathway (swale). August 2016 PA - Surface and subsurface samples planned to delineate extent.
9	AOC 4	Storage tank and appurtenance - Unregulated Under ground storage tank	1/550 gallon unregulated heating oil UST closed-in-place	Undetermined	PA	9/7/2016														Late 1990's - Heating oil UST closed in place. August 2016 PA - Exact location uncertain. Planned GPR survey to locate UST and soil samples for EPH.
10	AOC 5	Storage tank and appurtenance - Above ground storage tank	1/275 gallon heating oil AST	Undetermined	PA	9/7/2016														2009 - surface staining observed. August 2016 PA - Soil samples plannd for EPH analysis.
11	AOC 6	Storage tank and appurtenance - Above ground storage tank	1/275 gallon waste oil and 1/275 gallon heating oil AST on concrete pad	Undetermined	PA	9/7/2016														2009 - surface staining observed. August 2016 PA - Surface and subsurface samples planned. AOC is upgradient of onsite storm basin.
12	AOC 7	Drainage system and area - Storm sewer collection system	Two 2x4x2 foot storm drains located behind onsite building	Undetermined	PA	9/7/2016														2008 - Two storm drains that discharge to local storm drain system identified as AOC. Drains are located down gradient of AOC 5 & 6. August 2016 PA - Drains have not been inspected due to acess. Sampling is planned to evaluate environmental status.
13	AOC 8	Drainage system and area - Drainage swale and culvert	Swale that receives discharge from AOC 7	Undetermined	PA	9/7/2016														2008 - Swale at south west end of site is 78 x 8 x 3 feet identified as AOC. Swale linned with rip rap and in area where brush and trees are located. August 2016 PA - Surface/sediment samples planned to evaluate status.
14	AOC 9	Drainage system and area - Building floor drain and piping	Two former floor drains	Undetermined	PA	9/7/2016														2001 - Two floor drains tied to local sanitary system. Prior to this one drain may have been tied to former septic system. August 2016 PA - Drains observed sealed with concrete. Location of former drains confirmed. Soil samples planned to evaluate status.
15	AOC 10	Other areas of concern - Any area suspected of containing contaminants	Three former hydraulic lifts	Undetermined	PA	9/7/2016														August 30, 2001 - Three lifts closed sometime prior to this date. August 2016 PA - Soil samples planned to evaluate status.
16	AOC 11	Discharge and disposal area - Waste water treatment systems/septic/seepage pit/dry well	Former septic system	Undetermined	PA	9/7/2016														Pre 1973 - Site had onsite septic system. 1973 - Site tied to local sanitary system. August 2106 PA - Exact location unknown. GPR survey planned to locate former septic system. Tank may have been removed in 1973.
17	AOC 12	Other areas of concern - Hazardous substance storage or handling area	Former Safety Kleen parts cleaning basin	No	PA	9/7/2016														2002 - Site had a parts cleaning basin. August 2016 - Basin no longer in building. No signs of cracks in concrete floor where basin was located. No further investigation planned.
18	AOC 13	Environmental media - Media Ground water	Contaminated ground water plume from discharges from AOC 1 and 2 and possibly other AOCs	Yes	SI	5/1/2002	01-08-30-1546-07 and 01-08-30-1549-55		Ground Water	VO				Ground Water		Pump & Haul	Pump & Treat			2001 - Ground water contaminated above Class IIA standrds. 2002-2009 - Ground water delineated. Impacts extend off site. Concentrations trigger vapor intrusion investigation at the onsite building and the residence located at 359 Washington Place. 2013 to 2014 - VI investigations at 359 Washington Place inconclusive. Need additional investigations and initial investigation at NBG building. August 2009 PA- Additional sampling planned to evaluate current conditions per current regulations.

Appendix O

Quality Assurance Quality Control Plan

QUALITY ASSURANCE/QUALITY CONTROL PLAN

for

1696 Route 130, LLC

a/k/a North Brunswick Gulf Site

1696 Georges Road RT 130

North Brunswick, New Jersey

Problem Definition: The North Brunswick Gulf (NBG) site been operated as a gasoline service station for over 50 years. A Preliminary Assessment conducted in 2016 has identified thirteen (13) Areas of Concern (AOCs) at the site.

AOC 1: Historical & Current USTs locations.

AOC 2 Former Pump island.

AOC 3: Area behind building where high levels of lead were detected in soil.

AOC 4: Unregulated heating oil UST closed in place.

AOC 5: Unregulated heating oil AST.

AOC 6: Waste oil & heating oil AST on concrete pad.

AOC 7: Storm drains behind station.

AOC 8: Swale associated with storm drains.

AOC 9: Two former floor drains in service area.

AOC 10: Three former in ground hydraulic lifts in service area.

AOC 11: Former septic system.

AOC 12: Former parts cleaning basin.

Investigations conducted between 2001 and 2009 only focused on AOC 1 and AOC 2 and samples were only collected for VOCs and lead. Therefore, samples need to be collected to determine if a release occurred at each AOC that impacted the soil and groundwater above the NJDEP soil and groundwater standards. If impacts above the standards are identified then the nature and extent of the impacts need to be defined by collecting and analyzing additional samples in accordance with the New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for Site Remediation (TRSR) N.J.A.C. 7:26E.

Conceptual Site Model

The NBG site is situated in a mixed use area of North Brunswick Township that includes commercial and residential properties and one (1) undeveloped lot and the area is serviced by a public water system. There are no potable or irrigation wells or surface water located within 1,000 feet of the site and there are no environmentally sensitive resources located on or adjacent to the site. However, there is a potential migration pathway (swale/drainage ditch) located on the site that outfalls to the local storm drain system that ultimately outfalls to a sensitive natural resource (Farrington Lake) located approximately 1,300 feet from the site.

The majority of the site is paved with macadam except for the area behind the one story building (southeast of the building), which is mainly stoned and to the southwest of the onsite building, which is grass. The stoned area behind the building is enclosed by a chain link fence.

Two (2) small storm drains are located behind the building in a stoned area that discharges to a swale/drainage ditch at the southwest end of the site. The swale terminates at a pipe that is connected to the local storm drain system, which ultimately drains to Farrington Lake, a Natural Heritage Program site. In 2010 surface staining was observed up-gradient of the onsite storm drains near AOC 6 (waste oil AST).

A number of subsurface soil samples and a few rounds of ground water samples have been collected at the site during the early investigations but samples have not been collected at all the AOCs to determine if releases have occurred at each. The analytical data collected up to 2009 indicated:

There are concentrations of BTEX, MTBE, TBA, naphthalene, and VOC TICs in ground water above the GWQS. The extent of the ground water impacts based on the analytical data collected in 2009 indicated the groundwater plume was defined and extends slightly off-site to the north, west and southeast (**Figure K in Appendix A of the RIR).** However, the 2009 samples were not analyzed for EDB or 1,2,4-TMB. The 2009 data also indicates there were concentrations of VOCs in ground water above the ground water screening levels for vapor intrusion within 30 feet of the onsite building and the residence to the south at 359 Washington Place (Csepes residence).

In addition those early investigations indicated concentrations of benzene, naphthalene and lead in soil were above the residential and non-residential direct contact standards and concentrations of BTEX, MTBE and lead in soil was above the default soil to ground water standards. It also indicated the impacted soil was limited to the North Brunswick Gulf site.

The initial potential sources of contamination were the 12 AOCs mentioned above. The initial receptors included:

- The groundwater.
- Occupants in structures that were within the 30 foot VI trigger distance.
- The swale/drainage ditch that eventually outfalls to Farrington Lake.

- Onsite workers that could be exposed to impacted soil that is above the non-residential direct contact standard.

Initial potential pathways included:

- Vapor phase transport of contaminants from groundwater to indoor air.
- Direct contact to impacted soil.
- Erosion of impacted soil to the drainage ditch and transport by storm water to Farrington Lake.

As more investigations were conducted the source of impacts was determined to be related only to AOC 1 (gasoline USTs), AOC 2 (former pump island), AOC 3 (high lead behind onsite building), AOC 6 (surface spillage at waste oil AST), AOC 10 (one of the former hydraulic lifts) and AOC 11 (former septic system). The receptors were updated to include: site workers exposed to soils above the NRDCS, occupants in structures that were within the 30 foot VI trigger distance (onsite building, 359 Washington Place and 1674 Rt 130) **(Figure 3 in Appendix H of RIR)** and the swale/drainage ditch that outfalls the local storm drain system that ultimately outfalls to Farrington Lake. The contaminants of concern that was identified through those investigations are highlighted below.

Compound Above RDCS	**Compound Above NRDCS**	**Compound Above Default IGWSSL that was Above Background Concentration**	**Compound Above ESC That was above Background Concentration**
Benzene	Benzene	Benzene	Benzene
		Toluene	
		Ethylbenzene	Ethylbenzene
		Xylenes	Xylenes
		MTBE	
Naphthalene	Naphthalene	Naphthalene	Naphthalene
Benzo(a)pryene	Benzo(a)pryene	Benzo(a)pryene	Benzo(a)pryene
Benzo(a)anthracene	Benzo(a)anthracene	Benzo(a)anthracene	Benzo(a)anthracene
Benzo(b)fluoranthene	Benzo(b)fluoranthene	Benzo(b)fluoranthene	Benzo(b)fluoranthene
Dibenzo(a,h)anthracene	Dibenzo(a,h)anthracene	Dibenzo(a,h)anthracene	Dibenzo(a,h)anthracene
Indeno(1,2,3-cd)perylene	Indeno(1,2,3-cd)perylene	Indeno(1,2,3-cd)perylene	Indeno(1,2,3-cd)perylene
Benzo(k)fluoranthene		Benzo(k)fluoranthene	
Arsenic	Arsenic		
Lead	Lead	Lead	Lead
Manganese	Manganese		Manganese
Vanadium			Vanadium
		2-Methylnaphthaleene	
		Chrysene	Chrysene
		Beryllium	
			Nickel
		Mercury	Mercury
			Acenaphthalene
			Benzo(g.h.i)perylene
			Fluoranthene
			Phenanthrene
			Pryene
			Aluminum
			Barium

			Cadmium
			Chromium
			Cobalt
			Copper
			Zinc

Further investigations indicated the VI pathway was incomplete at 359 Washington Place and 1674 Rt 130 but VI pathway at the onsite building is still a concern since the building is an active gasoline station and no VI investigations were conducted at the building. Although there are contaminants of ecological concern in the swale/drainage ditch an ecological evaluation indicated no further ecological evaluation is needed but recommended the drainage ditch should be maintained to limit the potential for erosion and off-site transport during precipitation events.

Data Quality Objectives: The DQOs are:

1. To collect representative soil samples at each AOC to determine if a release occurred at the AOC.

2. To collect soil samples to define the extent of soil impacts in the unsaturated and saturated zones.

3. To collect surface samples (0 to 1') in undeveloped areas where soil erosion to the onsite drainage ditch could occur.

4. To collect soil samples in the drainage ditch to evaluate ecological concerns.

3. To collect ground water samples to define the extent of ground water impacts.

The samples will be analyzed by a NJDEP certified laboratory. Analysis to be performed on ground water samples by the laboratory will included: volatile organics plus 15 TICs, semi volatile organics plus 15 TICS, 1-methylnaphthalene, SIMs, TAL metals, EBD, TBA, 1,2,4-TMB.

Analysis to be performed on soil samples will be determined based on the product type stored at the AOC and will be in accordance with the parameters specified in Table 2-1 of the Technical Requirements for Site Remediation (Tech Regs). Analysis of samples collected at an AOC where gasoline was stored will be analyzed for VOCs+15, EDB, TBA and lead. Analysis of samples collected at an AOC where heating oil is stored will be analyzed for EPH and 25% of the samples where EPH is detected over 1,000 mg/kg will be analyzed for 2-methylnaphthalene and naphthalene. Analysis of samples collected at an AOC where hydraulic oil was stored will be analyzed for EPH and 25% of the samples where EPH is detected over 100 mg/kg will be analyzed for PAH. Analysis of samples collected at an AOC where waste oil was stored will be analyzed for EPH and 25% of the samples where EPH is detected will be analyzed for VOCs+15, SVOCs+15, PCBs, and TAL metals.

The analytical results of groundwater samples will be compared to the NJDEP Ground Water Quality Standards (GWQS) for Class IIA aquifers, the surface water standards if applicable, and the groundwater screening levels for vapor intrusion.

The analytical results of soil samples will be compared to the NJDEP Soil Remediation Direct Contact standards, the default Impact to groundwater soil screening levels, the EPH cleanup criteria and residual product level if applicable and the soil saturation limits. if the soil sample is collected in an undeveloped area and collected in the upper 1 foot of the soil column and can potentially migrate to the swale/drainage ditch then the analytical results will be compared to the ecological soil screening levels.

Rational Where Samples Will Be Taken: Soil samples will be taken at locations where additional analytical data is needed to determine compliance to the NJDEP soil standards. To determine where additional analytical data is needed the analytical results of previous soil samples will be reviewed and compared to the NJDEP analytical requirements presented in the Technical Requirements for Site Remediation. If that review indicates an analytical parameter was not analyzed for, or the detection level of a parameter was above the soil standard in the previous analysis, a soil sample will be planned for that location. Also the NJDEP Soil Investigative Technical Guidance dated February 21, 2012 was reviewed to determine the number and depth of soil samples. A sampling plan will also be developed summarizing how many samples will be collected at each AOC, the analysis required and the rational for collecting the samples. Soil sampling plans developed for the project are attached.

Data Of Known Quality Protocols (DKQP)

To comply with the NJDEP DKQP project communication forms will be sent to the laboratory to ensure project analytical requirements are met for samples collected.

Record Keeping

All measurements taken in the field will be recorded in a field log book or on sampling forms.

QAQC Samples

TRIP BLANKS

Trip blanks will be analyzed for volatile organics, EDB and TBA for each aqueous sampling event. The trip blank is prepared in the laboratory with analyte free water and accompanies the sample container throughout the sampling event. It remains unopened in the field. Trip blanks are not required for non-aqueous matrix but if included they will also be analyzed for VOC, EDB and TBA. One trip blank will be analyzed for each aqueous sampling shipment. The exception is a trip blank will not be analyzed if the aqueous sample is from a temporary well because the analysis will only be used as preliminary results.

FIELD RINSATE BLANKS & FIELD BLANKS

One field rinsate blank will be analyzed for each aqueous sampling event and be analyzed for the same parameters as the aqueous samples. The rinsate blank consist of two sets of containers: one empty and one filled with analyte free water. If a bailer is used to collect the sample the distilled water will be transferred from the full bottles over all the sampling devices that were used in the sampling event and into the empty set. Rinsate blanks for low flow sampling will require larger volumes of distilled water

and will be collected by placing the sampling pump in a bottle of distilled water supplied by the laboratory and collecting the sample before the flow through cell.

One rinsate blank will be analyzed each day for non-aqueous sampling events if re-useable sampling equipment is used and will be analyzed for VOCs and EDB. The rinsate blank consist of two sets of containers: one empty and one filled with analyte free water. The water will be transferred from the full bottles over all the sampling devices that will be used in the sampling event and into the empty set.

If no reusable sampling equipment is used in a non-aqueous sampling event and known sources of contamination are in close proximity or monitoring equipment indicate the presence of contamination above background levels, a field blank will be collected each day and analyzed for VOCs and EDB. The field blank consist of two sets of containers: one empty and one filled with analyte free water. The water will be transferred from the full bottles into the empty set in a contaminated area.

DUPLICATE SAMPLES

One duplicate sample will be collected during aqueous sampling events. The duplicate sample will be collected from a well at the same time as the ground water sample by splitting the sample, i.e., alternately filing sample containers. Samples for volatile organics should be filled first. Duplicate samples should be submitted to the laboratory as blind samples and analyzed for the same parameters as the ground water samples.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Samples

One MS and one MSD sample will be collected for each ground water sampling event and will be analyzed for the same parameters as the ground water samples.

One MS and one MSD sample will be collected each day for soil sampling events and will only be analyzed for VOC+15 and EDB.

ADDITIONAL SAMPLES

To document the quality of treated purge water a sample will be collected from the effluent of the GAC unit near the end of the sampling event. The sample will be analyzed for the same parameters as the ground water samples.

ANALYTICAL METHODOLOGY Aqueous Samples

Analytical methodologies, sample preservation, containers, holding times and sample container preparation will in accordance with the following:

Parameter	Container	Preservation	Holding Time	Analytical Method
Volatile Organics (VOC+15) including 124 and 135 TMB and TBA	Glass, three 40 ml vial, screw cap teflon lined septum	Cool, 4 deg. C. HCL	14 days	8260B NJ TCL
1,2-Dibromoethane	Glass, two 40 ml vials, screw cap teflon lined septum	Cool, 4 deg. C. HCL	14 days	8011
Semi-volatile organics (BN+15) including 1-methylnaphthalene	Amber glass, 950 ml	Cool, 4 deg. C. None	7 day extraction, 14 day analysis	8270D NJ TCL
SIMs	Amber glass, 950 ml	Cool, 4 deg. C. None	7 day extraction, 14 day analysis	8270D by SIM/3546
TAL metals with HG	125 ml wide mouth	None	6 months for except mercury is 28 days	6010/7470/7471, EPA 200.7/245.1

ANALYTICAL METHODOLOGY Non-Aqueous Samples

Analytical methodologies, sample preservation, containers, holding times and sample container preparation will in accordance with the following:

Parameter	Container	Preservation	Holding Time	Analytical Method
Volatile Organics (VOC+15)	Field Methanol Kits 1-VOA with methanol 2- VOA with DI water 1-60 ml (moisture)	Cool, 4 deg. C. HCL	14 days if frozen in lab within 48 hour	8260B NJ TCL
1,2-Dibromoethane	Field Methanol Kits 1-VOA with methanol 2- VOA with DI water 1-60 ml (moisture)	Cool, 4 deg. C. HCL	14 days if frozen in lab within 48 hour	8011
EPH Category 1 Screen	125 ml wide mouth jar	Cool, 4 deg. C. None	14 days	NJDEP EPH 10/08
EPH Category 2 Fractionation	125 ml wide mouth jar	Cool, 4 deg. C.	14 days	NJDEP EPH 10/08

		None		
Naphthalene 2-methylnaphthalene	300 ml wide mouth jar	Cool, 4 deg. C. None	7 day extraction, 40 day analysis	8270D by SIM 3510C
Lead	300 ml wide mouth jar	Cool, 4 deg. C. None	6 months	6020
PCBs	250ml wide mouth glass	Cool, 4 deg. C. None	14 day extraction 40 day analysis	8082
TAL metals	125 ml wide mouth jar	Cool, 4 deg. C. None	6 months for all except HG is 28 days	6010/7470/7471, EPA 200.7/245.1
PAH	500ml wide mouth glass	Cool, 4 deg. C. None	14 day extraction 40 day analysis	8270

GROUNDWATER SAMPLING PROCEDURES

The following details the ground water sampling procedures that will be used to collect ground water samples at the NBG site located at 1696 Georges Road Rt 130 in North Brunswick, NJ. Since the wells have not been sampled for seven (7) years the first sampling event will utilize volume average purge techniques. Volume average purge will also be used the first time a new well is sampled. Subsequent sampling will be performed using low flow sampling.

Personnel

New Jersey Subsurface Evaluator or LSRP
Technician (optional)
Low flow sampling certified company

EQUIPMENT

1. Oil/water interface probe
2. Surface centrifugal or peristaltic pump for volume averaged purging
3. Variable speed submersible centrifugal for low flow sampling with flow through cell
4. Disposable polyethylene tubing for volume average purge and Teflon lined tubing for low flow sampling
5. Foot valves - stainless steel type
6. Extension cords
7. Generator, if power not available
8. Hand tools
9. Potable water
10. Distilled water
11. Alconox tap water solution
12. Drums to contain purge water
13. Valves and hose clips

14. Granular activated carbon 400 lbs.
15. Transfer pump and hoses
16. Disposable Teflon bailers
17. Water Quality meter: Ph/Conductivity/Dissolved oxygen/temperature
    Oxidation reduction/turbidity (and flow through cell for low flow sampling)
18. Surgical gloves
19. Polypropylene cord
20. Paper towels
21. Sample cooler & ice
22. Sample bottles
23. Several plastic pails
24. Scrub brush
25. Labels, markers, chain of custody
26. Log book and purge forms
27. Safety cones
28. Health & Safety Plan
29. Battery powered sprayer
30. Watch

Procedure for Ground Water Sampling - Volume average purge

1. Open all manhole covers and remove any standing water in protective manhole cover.

2. Secure depth to water/product measurements using decontaminated interface probe. If water level data is to be used to generate a water table gradient map, gauge all wells before purging any well. Decontaminate interface probe between use at each well by washing with alconox solution and tap water scrub followed by a through rinsing with tap water then distilled water.

3. Since wells have not been sampled in 7 years and most well have a very low yield volume average sampling will be used during the initial sampling event. Calculate the volume of water in the well using conversion factor of 0.6528 gallons per foot of water for a 4-inch well, 0.1632 gallon per foot of water for a 2-inch well and 0.04-inch for a 1-inch temporary well. Multiple volume of water in well by 3 to determine what 3 well volumes equal.

4. Calibrate YSI dissolved oxygen meter and decontaminate before placing in well and allow meter to stabilize. Use Myron L. Company Ultrameter II 6PFSC for ORP, Conductivity, temperature and ph and Hanna turbidity meters and rinse three times with purge water before taking measurements. Secure water quality parameters at a minimum before, during and near end of purging and or approximately every five minutes. Calibrate meters at the site before using and more often is reading appear unreasonable. Water quality data not mandatory to be collected if three volumes will be removed but may be collected anyway.

5. Place plastic sheeting on ground near well head if ground surface exhibits signs of impacts. Connect new polyethylene tubing to pump intake ½-inch O.D. and lower intake tubing into well taking care not to let the tubing come in contact with the ground. If tubing comes in contact with the ground, wipe the

tubing down with a paper towel and distilled water as tubing is inserted into the well. Lower the tubing to approximately 1 foot below the water level. Install a flow valve on the discharge hose of the pump if a surface centrifugal is used. A flow vale is not required if a peristaltic pump is used. Direct the end of the hose into a bucket or drum to collect the purge water. Use hose clips to attach the hose to the bucket or drum. Note that since wells are less than 25 feet a foot valve should not be required on a surface centrifugal pump.

6. Document time purging begins and set flow rate to minimize draw down (less than 0.5 gallon per minute). High yield wells can be pumped at a higher rate if drawdown is minimized. Remove three to five well volumes and gauge depth to water level in the well just before ending well purging at a minimum. Lower hose into well as water level drops. Do not pump well dry. If cascading is observed in well decrease flow rate. If the well has been pumped to near dryness at a rate less than 0.5 gpm terminate purging even if three volumes have not been purged and allow the well to recover before sampling.

7. Keep pump running while hose is removed to avoid water falling back into the well if pump is not equipped with a foot valve.

8. If well nearly dewaters at a low flow rate, sample well no longer than 24 hours after purging. Ideally samples should be collected within 2 hours if well recovers within that time.

9. Sample wells with a disposable bottom loading disposable Teflon bailer suspended from a new section of polypropylene rope. Put on new disposable gloves before collecting sample. Transfer sample form bailer directly into to sample bottles being careful not to volatilize sample. Collect samples for volatile organics first and check vials for air bubbles, then collect samples for semi volatiles, SIMs, metals, etc.

10. Wipe off bottle with new paper towel and affix a completed label to each sample bottle and place in storage cooler with ice. Labels to include project name, sample number, depth, date, analysis required and sampler's initials.

11. At end of sampling program complete a chain of custody and direct laboratory to pick up samples the following day at On-Site Environmental, Inc's. office or deliver samples to laboratory immediately after sampling event is over.

12. Use transfer pump to pump/treat purge water through GAC unit and discharge the water to ground in area where runoff will not occur. If purge water has a sheen or strong odor store in drum for off-site disposal (do not treat with GAC).

13. If a foot valve if used decontaminate before and between use in each well by disassembling the valve, washing in an alconox water solution by scrubbing followed by a through rinse with tap water then distilled water and allow to air dry before reassembly. Use multiple decontaminated foot vales if sampling event involves sampling more than one well.

Procedure for Low Flow Sampling

1. Open all manhole covers and remove any standing water in protective manhole cover.

2. On-Site personnel will secure depth to water/product measurements using decontaminated interface probe. If water level data is to be used to generate a water table gradient map, gauge all wells before purging any well. Decontaminate interface probe between use at each well by washing with alconox solution and tap water scrub followed by a through rinsing with tap water then distilled water.

3. Utilize Terra Nova a NJDEP low flow certified company to purge and sample the wells. Terra Nova's NJDEP certification # is 13026.

4. Water level determination by Terra Nova will be made using a Slope Indicator electronic water level meter, Model 501, to the nearest 0.01 foot as measured from the top of the inner casing. The water level meter line will be wiped with a DI water soaked paper towel as it is extracted from the well. The probe will be rinsed with DI water and paper towel dried. The well depth, depth to water, well diameter and the purge water calculation will be noted in a field log.

5. Attach 3/8-inch O.D x 1/4-inch I.D. Teflon lined polyethylene tubing to the bladder pump (dedicated to each well) and a 1/4-inch O.D. polyethylene air supply line to the pumps and set pumps intake approximately two feet off the bottom of the well. Use a dedicated pump for each well to avoid field decontamination. Pumps to be Teflon and stainless steel QED bladder pumps and CO2 will be used to power the pumps using a QED controller.

6. Use a flow through cell with all probes in line for real time continuous monitoring. Turbidity to be a grab sample from a tee fitting in the line through a Teflon needle valve. Flow cell volume to be 250 ml. Use field meters that screw into the top of the flow cell. Use check valves at the pump end of the discharge line and in front of the needle valve to prevent back flushing of water or air in the system.

7. Calibrate field meters for pH, ORP, D.O., turbidity and conductivity daily before purging begins and and after three hours of operation for pH. The dissolved oxygen meter to be calibrated weekly by Winkler Titration and then daily by the Saturated Vapor Method. Results of the calibration and sample results are to be recorded in a parameter specific logbook for each meter. Meters to be used are as follows:

2- YSI Model 556.....Temperature, pH, Sp Conductance, ORP, D.O.

2-LaMotte 2020.....Turbidity

8. Flow rates will be kept at 250 ml/min or less and field measurements will be taken every 2 to 4 minutes.

9. Flow rates to be controlled by adjusting the discharge and refill times as well as gas pressure. The discharge volume to be measured in seconds using a stop watch or wrist watch. Rates to be adjusted to 250 ml/min or lower if the water level does not remain stable at less than 0.3 ft drop.

10. Begin purging and sampling by taking a static water level measurement with an electronic water level meter (Slope Indicator SINCO model number 51453) to the nearest 0.01-foot. Take water level measurements every time field parameters are monitored and continuously measure with the initial 1-2 liter flush of the pump line and flow cell.

11. After initial purge of at least one liter flush, begin micro purging by taking initial field parameter measurements of depth to water, temperature, pH, specific conductivity, dissolved oxygen, ORP, and turbidity. The well is considered stabilized and ready to sample when the indicator parameters have stabilized for three consecutive readings as follows:

temp.....+/- 3%
pH.....+/- 0.1 units
Sp cond.....+/- 3%
D.O.....+/- 10%
Turb.....+/- 10% or < 10 NTU
ORP.....+/- 10 mv
Water level.....<0.3 ft drop

12. Collect sample at the same rate as purging. To collect the sample disconnect the discharge line from the flow cell and collect the sample from that point. Collect sample with minimum turbulence by allowing the water to flow gently down the inside of the container.

13. Wipe off bottle with new paper towel and affix a completed label to each sample bottle and place in storage cooler with ice. Labels to include project name, sample number, depth, date, analysis required and sampler's initials.

14. Place sample on ice in a cooler, fill out chain-of-custody and deliver to laboratory at end of the day.

15. Decontaminate variable speed bladder pump and rinse flow through cell and probes with distilled water between each monitoring well or use a different and previously decontaminated pump in each well. Decontamination procedures to be performed at Terra Nova's facility is as follows:

- Alconox and tap water rinse.
- Tap water rinse & purge.
- Deionized water (DI)rinse.
- 10% nitric acid rinse.
- DI water rinse.
- Acetone rinse.
- Total air dry.
- DI rinse.
- Total air dry.
- Pumps place in individual zip lock bags and sealed after drying.

Procedure for Collecting Soil Samples

The following details the soil sampling procedures that will be used to collect subsurface soil samples at the NBG site located at 1696 Georges Road RT 130 in North Brunswick, NJ.

EQUIPMENT

1. Direct push drill rig such as GeoProbe with acetate liners
2. Plastic sheeting
3. Utility knife
4. Photo-ionization detector (PID) and calibration gas & regulator
5. Log book & pens
6. Alconox tap water solution
7. Decon brush
8. Potable water
9. Distilled water
10. Disposal sampling gloves
11. Battery powered sprayer
12. Hand tools
13. Sample cooler & ice
14. Sample bottles
15. Terra kits with disposable syringes if sampling for VOCs
16. Paper towels
17. Plastic pails
18. Sampling trowels/spatula/disposable spatulas
19. Safety cones
20. Health & Safety Plan
21. Watch
22. Portable table

Personnel

New Jersey Subsurface Evaluator or LSRP
Technician

Procedure to Collect Subsurface Soil Samples

1. Set up sampling station and calibrate PID at site before sampling starts.
2. Decontaminate stainless steel sample tube by washing in an alconox water solution by scrubbing followed by a tap water rinse before and after each boring is installed and place on clean plastic sheeting and or clean surface. Install new acetate liner in sample tube.
3. Upon retrieval of sampling tube from the ground remove acetate liner from sample tube and place on clean plastic sheeting on table.
4. Cut open acetate liner with utility knife to expose the soil sample.
5. Inspect soil sample for signs of impacts such as staining, odors and monitor sample with a calibrated PID every 6-inches.
6. Soil descriptions, PID readings and qualitative indication of impacts observed in the sample will be logged during the investigation.

7. Sample with the highest PID reading above and below the water level will be secured for laboratory analysis. If no impacts are observed the soil 6-inches above the saturated zone will be secured for analysis. At least one sample shall be secured from each boring even if no impacts are observed to document clean conditions. See sampling plan for additional information on where to collect samples.
8. Collect soil samples for VOCs first using field methanol kits supplied by laboratory. Wear new disposal gloves before opening each methanol kit.
9. If needed use a decontaminated spatula or disposable spatula to collect samples for other non VOC parameters or collect the sample using new disposable gloves without the use of a decontaminated spatula.
10. Place samples directly into bottles supplied by the laboratory and replace caps.
11. Affix label to sample bottle with sample ID, depth of sample, sample time, date, samplers initials and analysis required. Wipe off bottle with paper towel before placing in cooler with ice.
12. At end of sampling program complete a chain of custody and direct laboratory to pick up samples the following day at On-Site Environmental, Inc's. office or deliver the samples to the laboratory immediately after the samples are collected.
13. If hand augers are used to install boring due to access limitations decontaminate auger between borings and every time impacts are detected. Use tape measure to document depth of each sample. Remove sample from hand auger and place in new plastic zip lock bag for headspace monitoring. After monitoring with PID seal bag and place in cool place until boring is complete. Select sample with highest PID for analysis and place in laboratory supplied container with completed label.
14. If surface samples (0 to 1 ft) are to be collected use a decontaminated shovel to dig a 1 foot hole and place the soil on clean plastic sheeting. Inspect soil sample for signs of impacts such as staining, odors and monitor sample with a calibrated PID every few inches. Wearing new disposable gloves collect the sample that was not in contact with the shovel. Record soil descriptions, PID readings and qualitative indication of impacts observed in the sample. If samples are to be collected for VOCs, scrap the sidewall of the hole where the highest PID is noted wearing new disposable gloves to expose fresh soil and push the syringe into the newly exposed soil to collect the sample. Samples collected for VOCs should be collected first.

Procedure to Collect Samples in Storm Drains

1. Remove storm grate to allow access to sample location.

2. Use decontaminated shovel to determine thickness of soil if present and if the drain has a concrete bottom.
3. If soil is present collect sample with decontaminated shovel and place sample directly into bottle supplied by laboratory. Be careful to collect the sample from soil that did not come into contact with the shovel.
4. Affix label to sample bottle with sample ID, depth of sample, sample time, date, samplers initials and analysis required. Wipe off bottle with paper towel before placing in cooler with ice.
5. Fill out chain of custody.
6. If drain has a concrete bottom determine integrity.

Decontamination of Reusable Sampling Equipment

Field decontamination will be conducted on all non-dedicated, reusable sampling equipment used during implementation of the sampling program. Examples of this equipment include water level

meters, down hole water quality meters, foot valves, hand augers, reusable spatula. Decontamination procedures will include:

Washing with an alconox water solution, followed by a tap water rinse then a rinse with distilled water and allowing to air dry. Foot valves should be disassembled before cleaning and allowed to air dry before reassembling.

Equipment calibration:

Field equipment such as PIDs and water quality meters will be calibrated daily at the site according to manufacturer's specifications and more often if readings seem unreasonable.

PROCEDURE FOR WELL INSTALLATION

Equipment

Hollow stem auger drill rig
Hand auger
Concrete coring machine if needed
PID
Oil/water interface probe
Pressure washer
Bentonite
Concrete & concrete tools
Gravel pack
Manhole cover
Well plug
PVC casing and screen
Tape measure
Buckets
Shovels & broom

Personnel

NJDEP Licensed well driller
Drilling assistant
NJDEP subsurface evaluator or LSRP

Procedure

1. The subsurface evaluator/LSRP selects well location and marks the spot.
2. The drill rig and all down hole equipment is pressure washed in an area away from the well location.
3. A concrete boring machine is used to cut through any concrete at the surface.
4. If subsurface samples are to be collected during well installation follow procedures for collecting subsurface soil samples.
5. A 6-inch diameter boring is drilled using hollow stem augers.
6. The subsurface evaluator prepares a log of the cutting and monitors work space air with calibrated PID.
7. The borehole is advance to at least 5 feet below the water table.
8. PVC screen with a bottom cap is set in the hollow stem auger or hand auger hole to extend approximately 2-feet above the water table.
9. Riser pipe is installed from the top of the screen to a few inches below the surface.
10. The annular space around the screen is filled with gravel pack to a minimum of 1 foot above the top of the screen.
11. A minimum of one foot of bentonite pellets are added atop of the filter pack and portable water is added to hydrate the bentonite.
12. The remaining annular space around the PVC riser is grouted with a 10% bentonite and cement mixture.
13. The well is finished at the ground surface with a locking protective cap inside a surface mount manhole cover set in a concrete apron.
14. The hollow stem augers and hand augers are decontaminated by pressure washing before drilling the next well.

15. The well is developed using a submersible pump. Development water and drill cuttings are contained in drums for off-site disposal.
16. Mark the top of the PVC casing with a water proof marker where elevation and water level data will be collected from.
17. Tighten the locking cap and secure manhole cover with bolts.

Sampling Plan # 1

AOC #	Boring #	Concern	# of Borings	Depth of Boring	Analysis	Collect Samole		# of Analysis for VOCs TBA, naphthalene, EDB	# of Samples for Lead	# of Samples for EPH Catesorv 1	# of Samples for EPH Catesorv 2	# of Samples for Naphthalene & 2-methylnaphthalene	# of Samples for VOCs, SVO, PCBs, TAL metals plus terra kits	TOC via Kahn Lyode method	Field blanks for VOCs & EDB aouious	Terra kits
AOC 4: HO UST	1,2,3,4	Never analyzed for EPH	4	20 ft	EPH & Contingency if EPH is over 1000 mg/kg	unsaturated and saturated here highest PID is detected or just above the water table if no elevated PID readings are detected. Top of tank ~ 3ft, bottom approx 7ft bg				8		2				
AOC 11: Former Leech field	5 & 6	1 floor drain may have been connected to former septic before connection to municipal sewer; GPR only found possible tank no leech field	2	To base of leech field (top of tank approx. = 2ft Bottom approx 5 ft assume depth of borings are 5 &10 ft). Extend P 6 to 20 ft & complete as temp well	EPH 25% analyzed for VOCs+1S, SVO+1S, PCBs, TAL metals where EPH is detected because of floor drain concern	one through top of tank not through bottom and one 6 inches below tank downgradient.					2		1			
AOC 5: HO AST	7 & 8	Surface staining & Never analyzed for EPH	2	20 ft	EPH EPH	0-6-inches; & where highest PID is detected or just above water table if elevated PID readings are not detected				4		1				
	8	to define benzene to north of N7-2 , N7-3 & F20			VOCs , EDB & lead	unsaturated & saturated		2	2							
AOC 6: Waste Oil & heating oil ASTs on Pad	9,10, 11	Surface Staining & Never analyzed for waste oil parameters	3	20	EPH 25% analyzed for VOCs+1S, SVO+1S, PCBs, TAL metals where EPH is detected	0-6-inches; & where highest PID is detected or just above water table if elevated PID readings are not detected. Boring 11 only installed if pad is deteriorated.					6		2			
AOC 3: Lead behind station	12	High Lead in F 24	1	5	Lead	0-6-inches			3							
	13	High Lead in F 24	1	5	Lead	~ 5 & 6 ft			2							
	14	High Lead in F 24	1	5	Lead	0-6 inches & 5 ft			2							
	15	High Lead in F 24	1	5	Lead	0-6 inches & 5 ft			2							
	16	High Lead in F 24 hand auger close to bldg.	1	5	lead	0-6 inches & 5 ft			2							
AOC 9: Floor Drains (2)	17,18	waste oil boring inside analysis included in AOC 10		20ft see AOC 10		Collect samples in unsaturated and saturated where highest PID is detected										
AOC 10: Hydraulic Lifts (3)	17,18, 19	hydraulic oils & include waste oils for AOC 9 borings inside	3	20 ft	EPH 25% analyzed for VOCs+1S, SVO+1S, PCBs, TAL metals where EPH is detected	Collect 1 sample in unsaturated & 1 in saturated zone where hahest PIDs are detected					6		6			
AOC 7: Storm Drains	Collected by hand	Runoff to Drains from AOC 5, & 6	0		EPH 25% analyzed for VOCs+1S, SVO+1S, PCBs, TAL metals where EPH is detected	Sediment in base of drain if present					2		1			
	20,21	If drain is deteriorated or drain is not cleaned	2	to base of drain approx. 3 ft	EPH 25% analyzed for VOCs+1S, SVO+1S, PCBs, TAL metals where EPH is detected	Downgradient side at depth equal to base of drain					2		1			
AOC 8: Swale	22,23,24	Never sampled. Receives discharge from storm drains hand auger	3	2	EPH 25% analyzed for VOCs+1S, SVO+1S, PCBs, TAL metals where EPH is detected	Sample from 0 to 6-inches and inspect soil to 2 ft					3		1			
AOC 1 & 2 Gasoline UST & Pump Islands																
	25,26,27,28 29	Need to define lead around TB 8 for direct contact TB 8 dug to 3 ft also need to confirm soil to ground water standard is OK in P 28 or P 25	5	4 ft 5 ft	Lead	4 samples @ 3 to 4 ft 1 sample @ 4 to 5 ft ~ P25		1	5							
	32,33,34,35 36	UST closure samples not analyzed for lead or EDB & 124 TMB	5	20	lead, VOC, EDB, TMB	unsaturated & saturated		10	10							
	37	soil to ground water & saturated to confirm F 9 analysis in shoulder	1	20	VOC, EDB, lead	1 in unsaturated & 1 in saturated		2	2							
	38	soil to ground water & saturated to confirm F 8 analysis in shoulder	1	20	VOC, EDB, lead	1 in unsaturated & 1 in saturated		2	2							
	39	soil to ground water & saturated to confirm F 6 analysis by MW 15	1	20	VOC, EDB, lead	1 in unsaturated & 1 in saturated		2	2							
	40	no sample from F 21 to define VOC & naphthalene	1	20	VOC, EDB, lead	1 in unsaturated & 1 in saturated		2	2							
	41	soil to ground water & saturated to define extent at south boundary	1	20	VOC, EDB, lead	1 in unsaturated & 1 in saturated		2	2							
	42	soil to ground water & saturated to define extent at south boundary:Whitman sample N13-2 reported as ND only & not analyzed for naphthalene &EDB now under shed	1	20	VOC, EDB, lead	1 in unsaturated & 1 in saturated		2	2							
	43	soil to ground water & saturated to confirm F 3 analysis	1	20	VOC, EDB, lead	1 in unsaturated & 1 in saturated		2	2							
	44	soil to ground water & saturated to define naphthalene	1	20	VOC, EDB, lead	1 in unsaturated & 1 in saturated		2	2							
	45	soil to ground water & saturated to define extent to northwest	1	20	VOC, EDB, lead	1 in unsaturated & 1 in saturated		2	2							
	46	to evaluate extent by MW 5	1	10	VOCs, EDB, lead	1 sample in unsaturated		1	1							
Property Boundry Samples																
Boring by F 5	30	To confirm previous analytical benzene was reported in sample collected at 19 to 20 ft BG above the direct contact standard and VOC in unsaturated zone	1	20 ft	VOC+1S, lead	Collect 3 samples from 10 to 20 ft where highest PIDs are detetced. One sample should be in unsaturated zone.		3	3							
Need dingo in Csepes back yard	31	soil to ground water & saturated to confirm F 17 analysis	1	20	VOCs, EDB, lead	1 sample in unsaturated & unsaturated to verify F 17 sample result		2	2							
Sieve Analysis																
TOC & EPH	TBD based on PID readings	borings in unsaturated zone where EPH is <100	3	unsaturated < 10 ft	TOC					3				3		
Trip		none for soil														
field balnks		only for VOCs													4	
Matrix Spike		only for Vocs, EDB, TBA, naphthalene						4								
Matrix spike duplicate		only for Vocs, EDB, TBA, naphthalene						4								
Terra kits																44
						TOTAL # of Soil Samples		45	52	15	21	1	12	3	4	44

Sampling Plan # 2 for samples Collected in October 2017

	Boring #	Concern	# of Borings	Depth of Boring (ft)	Analysis	Collect Sample		VOCs	PAHs	Lead	EPH Cat 2	naphthalene	2-Methylnaphthalene	Aluminum	Manganese	Beryliium	Mercury	TAL metals	Terra Kits
AOC #																			
AOC 1 & 2 Gasoline UST & Pump islands	47	soil to ground water in street	1	6.5	benzene	where highest PID is above water table		1											1
	48	soil to ground water in street		6.5	benzene	where highest PID is above water table		1 included below											
	48	direct contact		20	naphthalene	take 4 samples to evaluate if sewer line leaks		4				4 include in VOC scan							4
	48	EDB & EDC to north of site	1	20	EDB EDC	1 in unsaturated & 1 in saturaded where highest PID is detected		2 included above											
	49	soil to ground water at G1	1	5	benzene MTBE	G1 excated to 2 ft: sample where highest PID is above water table from 2 to 4.7 ft		1											1
	50	soil to ground water at Test pit 4	1	5	benzene xylenes MTBE	TB4 excavted to 3 ft. Sample where highest PID is above water table from 3 to 4.7 ft		1											1
	51	soil to ground water west of P 43	average WT @ 2.6	5 ft & extend to 20 to evaluate direct contact for naphthalene (see below)	benzene toluene ethybenzene xylenes naphthalene Aluminum Manganese	one above 2.6 ft where highest PID is deteted to evaluate ecologica & soil to groundwater		1						1	1				1
	51	direct contact for naphthalene west of P 43	1	20	naphthalene	one in saturated to evaluate direct conatct for naphthalenewhere highest PID is detected		1											1
	51	ecological			benzene ethylbenzene xylenes naphthalene Aluminum Manganese	1 in unsaturated zone where highest PID is detected		1 included above						1 included above	1 included above				
	52	soil to ground water south of 43	average WT @ 2.6	5 ft & extend to 20 to evaluate direct contact for naphthalene (see below)	benzene toluene ethylbenzene naphthalene	one above 2 .6 ft where highest PID is deteted		1											1
	52	direct contact for naphthalene south of P 43	1	20	naphthalene	one in saturated to evaluate direct conatct for naphthalene		1											1
	52	ecological			benzene ethylbenzene xylenes naphthalene	1 above 2 ft in unsatturated zone where highest PID is detected		1 included above											
	52	EDB & EDC to the south		20	EDB EDC	1 in unsaturated & 1 in saturaded where highest PID is detcted		2 included above											
	56	soil to ground water at G3	1	5	Benzene MTBE TBA	G 3 excavated to 3 ft: sample where highest PID is above water table from 3 to 4.7 ft		1											1
	57	soil to groundwater at TB 8	1	5	Benzene MTBE TBA	TB 8 excavated to 3': sample where highest PID is above water table from 3 to 4.7'		1											1
	65	soil to ground water east of P 26	1	6.5	lead	1', 3.5' & 6.5'				3									
	76	lead at P26	1	5	lead	0-1' & 4-4.5'				2									

Sampling Plan # 2 for samples Collected in October 2017 (continued)

	Boring #	Concern	# of Borings	Depth of Boring (ft)	Analysis	Collect Sample		VOCs	PAHs	Lead	EPH Cat 2	naphthalene	2-Methylnaphthalene	Aluminum	Manganese	Beryliium	Mercury	TAL metals	Terra Kits
AOC 3: Lead behind station	62	soil to groundwater & ecological & see AOC 10	included in AOC 10	6.5 included in AOC 10	lead	0-6", 1.5 to 2 ft & where highest PID is above water table = 6.5ft for lead				3									
	66	ecological & soil to groundwater	included in AOC 8	6.5 included in AOC 8	lead	0-6", 1.5 to2 ft & another where highest PID is above water table = 6.5 ft				included in AOC 8									
	67	ecological	1	2	lead	0-6" & 1.5 to 2 ft				2									
AOC 4: HO UST																			
AOC 5: HO AST																			
AOC 6: Waste Oil & heating oil ASTs on Pad	53	soil to groundwater on Csepes property	1	6.5	benzene	where highest PID is above water table		1											1
	53	metals			Aluminum Manganese	1 in unsaturated where highest PID is detected								1	1				
	58	ecological		2	lead mercury other metals naphthalene benzo(a)anthracene benzo(a)pryene Chrysene	0-6" & one were highest PID is detected above or at 2 ft			2									2	
	58	soil to groundwater		6.5	lead mercury benzo(a)anthracene benzo(a)pryene benzo(b)fluranthene Dibenzo(ah)anthracene Indeno(123-cd)pryene	one where highest PID is detected in unsaturated between 2 & 6.5 ft			1	1							1		
	58	direct contact	1	20	benzo(a)anthracene benzo(a)pryene benzo(b)fluranthene Dibenzo(ah)anthracene Indeno(123-cd)pryene	1 in saturated where highest PID is detected			1										
	59	ecological		2	lead mercury other metals naphthalene benzo(a)anthracene benzo(a)pryene Chrysene EPH	0-6" & one were highest PID is detected above or at 2 ft			2									2	
	59	soil to groundwater		6.5	lead manganese mercury benzo(a)anthracene benzo(a)pryene benzo(b)fluoranthene Dibenzo(ah)anthracene Indeno(123-cd)pryene	one where highest PID is detected in unsaturated between 2 & 6.5 ft			1	1					1		1		
	59	direct contact	1	20	benzo(a)anthracene benzo(a)pryene benzo(b)fluranthene Dibenzo(ah)anthracene Indeno(123-cd)pryene EPH	1 in saturated where highest PID is detected			1		1								
	60	ecological		6.5	naphthalene EPH	0-6" & were highest PID is above or at 2 ft		2			2								2
	60	direct contact	1	20	EPH	1 in unsaturated below 2 ft & 1 in saturated					2								

Sampling Plan # 2 for samples Collected in October 2017 (continued)

	Boring #	Concern	# of Borings	Depth of Boring (ft)	Analysis	Collect Sample		VOCs	PAHs	Lead	EPH Cat 2	naphthalene	2-Methylnaphthalene	Aluminum	Manganese	Beryliium	Mercury	TAL metals	Terra Kits
	61	ecological		2	mercury other metal naphthalene benzo(a)anthracene benzo(a)pryene Chrysene	0-6" & were highest PID is above or at 2 ft			2									2	
	61	soil to groundwater		6.5	mercury benzo(a)anthracene benzo(a)pryene benzo(b)fluranthene Dibenzo(ah)anthracene Indeno(123-cd)pryene	1 in unsaturated where highest PID is detected between 2 & 6.5 ft			1								1		
	61	direct contact	1	20	benzo(a)anthracene benzo(a)pryene benzo(b)fluranthene Dibenzo(ah)anthracene Indeno(123-cd)pryene	1 in saturated where highest PID is detected			1										
	68	ecological		2	lead other metals benzo(a)anthracene benzo(a)pryene Chrysene	0-6" & were highest PID is above or at 2 ft			2									2	
	68	soil to groundwater		6.5	mercury benzo(a)anthracene benzo(a)pryene benzo(b)fluranthene Dibenzo(ah)anthracene Indeno(123-cd)pryene	1 in unsaturated where highest PID is detected between 2 & 6.5 ft			1								1 change to TAL metals	1	
	68	direct contact	1	20	benzo(a)anthracene benzo(a)pryene benzo(b)fluranthene Dibenzo(ah)anthracene Indeno(123-cd)pryene	1 in saturated where highest PID is detected			1										
	68	lead & metals			lead & TAL metals	0-0.5' for lead &1 in unsaturated where highest PID is detected for TAL metals				1 included in TAL metals above								1 included above	
	72	Soil to ground water		6.5	lead benzo(a)pryene	1 sample between 3 and 6.5 ft			1	1									
	72	Ecological		2	mercury	1 sample between 1 to 2 ft											1		
	72	direct contact	1	20	EPH benzo(a)pryene	1 below 3 ft where highest PID is detected			1		1								
	75	metals	1	6.5	Aluminum	1 in unsaturated zone where highest PID is detected								1					

Sampling Plan # 2 for samples Collected in October 2017 (continued)

	Boring #	Concern	# of Borings	Depth of Boring (ft)	Analysis	Collect Sample		VOCs	PAHs	Lead	EPH Cat 2	naphthalene	2-Methylnaphthalene	Aluminum	Manganese	Beryliium	Mercury	TAL metals	Terra Kits
AOC 7: Storm Drains																			
AOC 8: Swale	54	ecological		2	benzene ethylbenzene xylenes naphthalene lead aluminum manganese mercury other metals	0 to 0.5 ft and another above 2 ft where highest PID is detected		2										2	2
	54	soil to ground water	1	2.5	BTEX naphthalene benzo(a)pryene aluminum manganese lead	average DTW is 2.6 ft therefore samples collected for ecological concern will be used for VOCs & metals 1 sample for PAHs where highest PID is detected		included above	1									included above	
	54	Direct contact		2.5	benzo(a)pryene				included above										
	55	ecological		2	benzene ethylbenzene xylenes maphthalene lead aluminum mercury other metals	0 to 0.5 ft and another above 2 ft where highest PID is detected		2										2	2
	55	soil to ground water	1	2.5	BTEX EDB naphthalene lead benzo(a)pryene aluminum	average DTW is 2.6 ft therefore samples collected for ecological concern will be used for VOCs & metals 1 sample for PAHs where highest PID is detected		included above	1									included above	
	55	Direct contact			benzo(a)pryene				included above										
	66	Ecological	see AOC 3	2	EPH lead other metals	0 to 0.5 ft and another above 2 ft where highest PID is detected				included in TAL metals	2							2	
	66	Soil to Groundwater		6.5	lead benzo(a)anthracene benzo(a)pryene	one in unsaturated between 2 & 6.5 ft where highest PID is detected			1	1									
	66	Direct contact	1	20	benzo(a)prryene	1 in saturated zone where highest PID is detcted			1										

Sampling Plan # 2 for samples Collected in October 2017 (continued)

	Boring #	Concern	# of Borings	Depth of Boring (ft)	Analysis	Collect Sample		VOCs	PAHs	Lead	EPH Cat 2	naphthalene	2-Methylnaphthalene	Aluminum	Manganese	Beryliium	Mercury	TAL metals	Terra Kits
	69	ecological		2	lead aluminum manganese mercury other metals EPH	hand auger: sample 0.5-1' & 2ft					2							2	
	69	direct contact at P22 vertical extent	1	2.5'	benzo(a)pryene	hand auger to 2.5 ft & get 1 sample where highest PID is detected			1										
	69	soil to groundwater		2.5	Benzo(a)pryene				included above										
	70	Ecological		2	EPH	Sample 0-05.' & highest above 2 ft					2								
	70	Direct contact	1	20	Benzo(a)pryene	l in unsaturated & 1 in saturated zone			2										
	70	soil to groundwater		20	Benzo(a)pryene	l in unsaturated (included above)													
	71	Ecological		2	EPH	Sample 0-05.' & highest above 2 ft					2								
	71	Direct contact	1	20	Benzo(a)pryene	l in unsaturated & 1 in saturated zone			2										
	71	soil to groundwater		20	Benzo(a)pryene	l in unsaturated (included above)													
AOC 9: Floor Drains (2)																			
AOC 10: Hydraulic Lifts (3)	62	soil to groundwater	1	6.5	lead beryllium 2-methylnaphthalene	1 where highest PID is above water table				included in AOC 3			1			1			
	62	ecological			lead					included in AOC 3									
	62	Direct contact		10	EPH	1 in unsaturated & 1 in saturated zone					2								
	63	soil to ground water			2-methylnaphthalene Aluminum Beryllium Manganese	1 in unsaturated zone where highest PID is detected							1	1	1	1			
	63	direct contact		10	EPH	1 in unsaturated & 1 in saturated zone					2								
	64	soil to groundwater		6.5	2-methylnaphthalene Aluminum Beryllium Manganese	1 in unsaturated where highest PID is detected							1	1	1	1			
	64	direct contact		10	EPH	1 in unsaturated & 1 in saturated zone					2								
AOC 11: Former Leech field																			
Background	73	metals	1	3.5 not 6.5	TAL metals	1 in unsaturated where highest PID is detected												1	
	74	metals	1	6.5	TAL metals	1 in unsaturated where highest PID is detected												1	
Trip		none for soil																	
Field Blanks		VOCs						2											2
Field Blanks		EDB																	
Field Blanks		Lead																	
Matrix spike		only for Vocs, EDB, TBA, naphthalene						2											2
Matrix Spike Dulicate		only for Vocs, EDB, TBA, naphthalene						2											2
DKQP																			
			30			**TOTAL # of Samples**		**26**	**27**	**14**	**20**	**0**	**3**	**5**	**5**	**3**	**4**	**19**	**26**

Sampling Plan # 3 for Samples Collected in February 2018

	Boring #	Concern	# of Borings	Depth of Boring (ft)	Analysis	Collect Sample		VOCs with naphthalene	PAHs	Lead	EPH Cat 2	SVOC	PCBs	naphthalene	2-Methylnaphthalene	Aluminum	Zinc	Manganese	Beryllium	Mercury	TAL metals	Terra Kits	EDB Ground water
	77	VOCs > impact to Ground water			ethylbenzene toluene xylenes naphthalene	highest PID above 2.5 ft		1															
		lead & manganese > impact to groundwater: lead included below			lead manganese	highest above 2.5'												1					
		lead > ecological			lead	0 to 0.5 ft & 1.5-2ft				2													
		naphthalene > direct contact	1	15	naphthalene	highest PID above 2.5 ft & highest PID between 2.5 and 15 ft		1															
	78	VOCs > impact to ground water	1	2.5	ethylbenzene toluene xylenes naphthalene	highest PID above 2.5 ft		1															
		PAH > impact to groundwater			PAHs	highest PID above 2.5 ft			1														
	79	Naphthalene > impact to groundwater & ecological soil screening level	1	2.5	naphthalene	highest PID above 2.5 ft								1									
	80	PAH , mercury & manganese > impact to groundwater	1	2.5	PAHs mercury manganese	highest PID above 2.5 ft			1									1		1			
	81	VOCs > impact to Ground water	1	2.5	ethylbenzene toluene xylenes naphthalene	highest PID above 2.5 ft		1															
	82	metals > ecological soil screening levels			metals	0 to 0.5 ft 1.5 to 2 ft															2		
		Lead, mercury, beryllium> impact to groundwater: therefore get it for TAL metals	1	6.5	metals	between 2 & 6.5 ft															1		
	83	Aluminum > impact to groundwater	1	6.5	Aluminum	between 2 & 6.5 ft										1							
	84	PAH> ecological soil screening levels	1	1	PAHs	0 to 0.5 ft 0.5 to 1ft			2														
	85	PAH> ecological soil screening levels			PAHs	0 to 0.5 ft 1.5 to 2 ft			2														
		EPH > ecological criteria			EPH	0 to 0.5 ft 1.5 to 2 ft					2												
		metals > ecological soil screening levels			metals	0 to 0.5 ft 1.5 to 2 ft															2		
		Lead, beryllium> impact to groundwater	1	6.5	metals	between 2 & 6.5 ft															1		
	86	Lead> ecological soil	1	2	lead	0 to 0.5 ft 1.5 to 2 ft				2													
	87	Lead> impact to groundwater	1	6.5	lead	6 to 6.5 ft				1													
		Aluminum & zinc> impact to groundwater			Al & Zn	Highest PID between 2 & 6.5 ft										1	1						
	88	Mercury > impact to groundwater & ecological soil screening levels	1	6.5	Hg	0 to 0.5 ft 1.5 to 2 ft between 3 & 6 ft														3			
	89	lead > impact to groundwater	1	6.5	Lead	between 3.5 & 6.5 ft				1													
		Mercury > impact to groundwater			Hg	between 3.5 & 6.5 ft														1			
	90	Lead > direct contact	1	20	Lead	3.5 to 4 ft 2 between 4 & 20 ft				3													
		Mercury > impact to groundwater			Hg	between 3.5 & 6.5 ft														1			
	91	Mercury > ecological soil screening level			Hg	0 to 0.5 ft 1.5 to 2 ft														2			
		Mercury > impact to groundwater	1	6.5	Hg	Highest PID between 2 & 6.5 ft														1			
	92	Metal > ecological soil screening level			Metals	0 to 0.5 ft 1.5 to 2 ft															2		
		Mercury > impact to groundwater	1	6.5	metals	highest PID between 2 and 6.5 ft															1		
	93	Lead > impact to groundwater	1	6.5	Lead	1 ft & highest PID between 1 and 6.5 ft				2													
	94	2-methylnaphthalene , beryllium & manganese> impact to groundwater	1	6.5	2-MN manganese beryllium	highest PID above 6.5 ft									1			1	1				
	95	Lead > impact to groundwater	1	6.5	Lead	0 to 0.5ft Highest between 0.5 & 6.5 ft				2													
	96	Naphthalene > direct contact	1	15	Naphthalene	Highest between 4 & 15 Ft								1									
		Mercury > impact to groundwater			Hg	Highest PID above 2.5 ft																	
	97	ground water	1	20	VOCs, TBA, EDB, naphtahalene	ground water		1															1
	98	ground water	1	20	VOCs, TBA, EDB, naphtahalene	ground water		1															1
	99	storm drain			EPH & assume 1 sample from storm drain is analyzed for contingency analysisi = VOC, SVOCs, TAL metals & PCBs	in storm drain		1			1	1	1								1		
	100	storm drain				in storm drain					1												
Trip		none for soil						1															
Field Blanks		VOCs						2															
Field Blanks		EDB																					
Field Blanks		Lead																					
Matrix spike		only for Vocs, EDB, TBA, naphthalene & TAL metals						2	1	1											1		
Matrix Spike Dulicate		only for Vocs, EDB, TBA, naphthalene & TAL metals						2	1	1											1		
DKQP																							
			22			**TOTAL # of Samples**		**14**	**8**	**15**	**4**	**1**	**1**	**2**	**1**	**2**	**1**	**3**	**1**	**9**	**12**	**10**	**2**

Sampling Plan # 4 for Samples Collected in May 2018

	Boring #	Concern	# of Borings	Depth of Boring (ft)	Analysis	Collect Sample	VOVs & naphthalene	2-Methylnaphthalene	PAHs	Lead	Zinc	Cadmium	Mercury	Manganese Lead	Beryllium	TAL Metals instead of individual compounds	Manganese	Terra kits
by RT 130	101	impact to groundwater	1	7	2-methylnaphthalene manganese	highest PID above 6.5 ft		1									1	
north of propane tank	102	impact to GW			benzo(a)anthracene benzo(a)pryene benzo(b)fluoranthene mangnaese beryllium	highest PID between 2 & 6.5 ft			1					1	1			
		Residential & Non-residential direct contact	1	20	benzo(a)pryene	highest PID between 6.5 & 20 ft			1									
		Ecological soil			benzo(a)pryene zinc vanadium nickel barium cadmium chromium mangnaese add lead	0 to 0.5 ft & highest PID between 0.5 to 2 ft			2							2		
south of propane tank	103	impact to GW			benzo(a)anthracene benzo(a)pryene benzo(b)fluoranthene	highest PID between 2 & 6.5 ft			1									
		Residential & Non-residential direct contact	1	20	benzo(a)pryene	highest PID between 6.5 & 20 ft			1									
		Ecological soil			benzo(a)pryene Zinc Cobalt Vanadium nickel cadmium chromium manganes add lead	0 to 0.5 ft & highest PID between 0.5 to 2 ft			2							2		
by north side of swale	104	impact to GW			benzo(a)anthracene benzo(a)pryene mercury	highest PID above 2.5 ft			1				1					
		residential direct contact	1	20	benzo(a)pryene	highest PID between 2.5 & 20 ft			1									
south side of swale	105	Ecological soil	1	2	Zinc cadmium	0 to 0.5 ft & highest PID between 0.5 to 2 ft					2	2						
Csepes by shed	106	ecological soil	1	2	copper zinc cobalt vanadium nickel cadmium chromium manganese add lead	0 to 0.5 & highest between 0.5 & 2' or 1.5-2'										2		
by Csepes gate	107	ecological soil	1	2	mercury add lead	0 to 0.5 & highest between 0.5 & 2' or 1.5-2'							2					
end of swale on csepes property	108	impact to ground water	1	3	manganese	highest PID above 2.5 ft if no PID get at 2-2.5'											1	
		ecological			lead	0-0.5 ft				1								
inside by N13-1	109	direct contact below 10'	1	20	benzene	sample at 10 feet & deeper where high PID is detected	2											2
NE corner by MW 15	110	background ecological	1	1	lead	0-0.5 & 0.5-1'				2								
MW corner by MW 16	111	background ecological	1	1	lead	0-0.5 & 0.5-1'				2								
Luzk property	112	background ecological	1	1	lead	0-0.5 & 0.5-1'				2								
Csepes property	113	background ecological	1	1	lead	0-0.5 & 0.5-1'				2								
Trip		none for soil																
Field Blanks																		
Field Blanks																		
Field Blanks																		
Matrix spike		only for TAL metals & PAHs							1							1		
Matrix Spike Duplicate		only for TAL metals & PAHs							1							1		
DKQP																		
			13			TOTAL # of Samples	2	1	12	9	2	2	3	1	1	8	2	2

Sampling Paln # 5 for Samples Collected in September 2018								
Location	**Boring #**	**Concern**	**# of Borings**	**Depth of Boring (ft)**	**COC**	**Collect Sample**	**PAHs**	**TAL Metals**
by MW 15	**114**	**PAH impact to groundwater & to determine if concnetrations of PAHs in P 102 & P 103 are related to DAP**	**1**	**6.5**	**Benzo(a)antrachene Benzo(a)pryene Benzo(b)flouranthene**	**0-0.5' 0.5-1' highest PID above 6.5'**	**3**	
		Background concentration of Metals			**all**	**0-0.5' 0.5-1'**		**2**
		Metal impact to groundwater			**Mn & Be**	**highest PID between 1' and 6.5' if no PID sample from 6-6.5'**		**1**
east property line	**115**	**PAH impact to groundwater & to determine if concnetrations of PAHs in P 102 & P 103 are related to DAP**	**1**	**6.5**	**Benzo(a)antrachene Benzo(a)pryene Benzo(b)flouranthene**	**0-0.5' 0.5-1' highest PID above 6.5'**	**3**	
		Background concentration of Metals			**all metals**	**0-0.5' 0.5-1'**		**2**
		Metal impact to groundwater			**Mn & Be**	**highest PID between 1' and 6.5' if no PID sample from 6-6.5'**		**1**
by MW 16	**116**	**Background concentration of PAH & Metals**	**1**	**1**	**all PAH & metals**	**0-0.5' 0.5-1'**	**2**	**2**
Luzack property	**117**	**Background concentration of PAH & Metals**	**1**	**1**	**all PAH & metals**	**0-0.5' 0.5-1'**	**2**	**2**
Csepes property	**118**	**Background concentration of PAH & Metals**	**1**	**1**	**all PAH & metals**	**0-0.5' 0.5-1'**	**2**	**2**
east side of swale	**119**	**PAH & Metals & soil ecological screening levels**	**1**	**2**	**all PAH & metals**	**0-0.5' 0.5-1' 1.5-2'**	**3**	**3**
west side of swale	**120**	**PAH & Metals & soil ecological screening levels**	**1**	**2**	**all PAH & metals**	**0-0.5' 0.5-1' 1.5-2'**	**3**	**3**
at MW 18	**MW 18**	**PAH & Metal impact to groundwater**	**1**	**20**		**highest PID above 6.5'**	**1**	**1**
Trip		none for soil						
Rinsate Blank							**1**	**1**
Matrix spike		only for TAL metals & PAHs					**1**	**1**
Matrix Spike Duplicate		only for TAL metals & PAHs					**1**	**1**
DKQP								
			8			**TOTAL # of Samples**	22	22

Appendix P

Ecological Evaluation

ECOLOGICAL EVALUATION REPORT

NORTH BRUNSWICK GULF SERVICE STATION
1696 Georges Road
North Brunswick, Middlesex County, New Jersey 08902
NJDEP Program Interest Number: 010180
TRC Project No. 325435

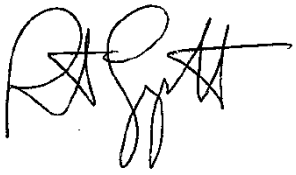
Prepared for:

ON-SITE ENVIRONMENTAL, INC.
119 SHEPHERDS WAY
COATESVILLE, PENNSYLVANIA 19320

Reviewed by:



William S. Cordasco, Sr. Scientist



Robert J. Lippencott, Ph.D., CHMM, LSRP
Tech. Director and Sr. Principal Consultant

Prepared by:

TRC Environmental Corporation
41 Spring Street, Suite 102
New Providence, NJ 07974
(908) 988-1700

April 2019

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 Scope and Objective 1
2.0 SITE PHYSICAL SETTING and HISTORY 2
2.1 Environmental Setting and Boundary Features 2
2.2 Site-specific Geology and Hydrogeology 2
2.3 Site History 3
3.0 TECHNICAL OVERVIEW 4
3.1 Soil, Groundwater, Sediment, and Surface Water Data and Data Quality 4
3.1.1 Data Quality 4
3.2 Ecological Evaluation Objectives 4
4.0 ECOLOGICAL EVALUATION 6
4.1 Environmentally Sensitive Natural Resources 6
4.1.1 USGS Map 7
4.1.2 NRCS Web Soil Survey Maps 7
4.1.3 Wetlands Maps 7
4.1.4 NJDEP GIS Land Use/Land Cover Map 7
4.1.5 Threatened and Endangered Species Review 8
4.1.6 Ecological Evaluation Site Inspection 9
4.2 Contaminants of Potential Ecological Concern 10
4.2.1 Soil 12
4.2.2 Groundwater Migration Pathways 15
4.2.3 Surface Water 17
5.0 CONCLUSIONS AND RECOMMENDATIONS 19
6.0 REFERENCES 20

TABLE OF CONTENTS (continued)

FIGURES

Figure 1 Site Location Map
Figure 2 USDA NRCS Web Soil Survey Map
Figure 3 NJDEP GIS Land Use/Land Cover Map
Figure 4 NJDEP and National Wetlands Inventory Maps
Figure 5 NJDEP GIS Landscape Project Map
Figure 6 Site Plan Showing Sample Locations and Analytical Results

TABLES

Table 1 Summary of Soil Analytical Results
Table 2 Summary of Groundwater Analytical Results
Table 3 Summary of Surface Water Results

APPENDICES

Appendix A Site Survey prepared by James M. Stewart, PLS, dated October 26, 2018
Appendix B Ecological Evaluation Site Inspection Photo Log
Appendix C Groundwater Contamination Iso-Concentration and Flow Contour Maps prepared by On-Site Environmental, Inc.

ATTACHMENTS

Attachment 1 Environmentally Sensitive Areas in Vicinity of the Site
Attachment 2 NJDEP Office of Natural Lands Management - Natural Heritage Program Database Request Letter

1.0 INTRODUCTION

On behalf of On-Site Environmental, Inc. (OSEI), TRC Environmental Corporation (TRC) has prepared this Ecological Evaluation (EE) as an appendix to the *Remedial Investigation Report* (RIR) to detail environmental investigation activities conducted to evaluate site conditions at the North Brunswick Gulf Service Station (the Site) located in North Brunswick, New Jersey. The Site is undergoing remedial investigation due to historic contamination associated with operation of the retail automobile service station, i.e., historic discharges associated with the Underground Storage Tank (UST) systems and other service station operations. The EE included a review of existing information and a Site inspection to identify potential Environmentally Sensitive Natural Resources (ESNRs) in the vicinity of the Site, Site-related Contaminants of Potential Ecological Concern (COPECs), and potential pathways for COPECs to migrate to the ESNRs.

The EE activities were performed in accordance with the New Jersey Department of Environmental Protection's (NJDEP) *Technical Requirements for Site Remediation* (TRSR), N.J.A.C. 7:26E, and the NJDEP's *Ecological Evaluation Technical Guidance* (EETG).

1.1 Scope and Objective

As required by the TRSR and the EETG, the scope of the EE for the Site is to identify the presence and co-occurrence of the following:

(1) ESNRs on, adjacent to, or potentially impacted by the Site;

(2) The presence of Contaminants of Potential Ecological Concern (COPEC) at the Site or area of concern (AOC) and in the ESNRs, and;

(3) The presence of a contaminant migration pathway (historic or current) from the site to the ESNR or evidence of contaminated material having been placed directly into an ESNR.

The primary objective of an EE is to evaluate existing information and analytical data to determine if no further ecological evaluation is warranted or if an Ecological Risk Assessment (ERA) is required.

2.0 SITE PHYSICAL SETTING AND HISTORY

Site information for the EE was obtained from the document titled *Preliminary Assessment Report – North Brunswick Gulf, 1696 Georges Road Rt. 130* (PAR) prepared in August 2016 and supplied to TRC by OSEI, and from other sources identified in this report.

2.1 Environmental Setting and Boundary Features

The Site is located at 1696 State Highway 130, Block 282, Lot 1 in the Township of North Brunswick, Middlesex County, New Jersey (Figure 1). It occupies 0.63-acres along the northbound side of New Jersey State Highway Route 130 (aka Georges Road). A service garage and office are located in the on-Site building, with other features including retail fuel dispensers under a canopy, underground storage tanks containing gasoline and diesel fuels, and vehicle parking areas. Most of the Site is covered by concrete or asphalt pavement, however the area south of the service building is unpaved bare ground adjacent to a partially-vegetated drainage ditch. The area surrounding the Site is occupied primarily by residential and commercial land uses. The Site is bounded to the north by Route 130 and vacant woodland, to the south by residential lots, to the east by a dry cleaning establishment and a convenience store, and to the west by Washington Place, a BP Service Station, and residential lots. The Site is located within the northern portion of New Jersey's Piedmont Physiographic Province, which typically consists of unconsolidated Cretaceous marine sediments (sand, gravel, silt, etc.) deposited above the consolidated sedimentary rock of the Passaic Formation (shale, siltstone, sandstone). The Site ranges in elevation from approximately 109 feet above mean sea level (amsl) in the northeast, to approximately 103 feet amsl in the southeast. The northern and western portion of the Site drains by overland flow to Washington Place, while the south-southwestern portion drains to an on-site ditch located along the southern property boundary. Ultimately, all runoff drains to the municipal storm sewers along Washington Place which flow south toward Farrington Lake (Figure 1). The Site is largely asphalt-paved with the exception of some gravel and grassed areas to the rear of the station building. A survey of the Site prepared by James Steward, a New Jersey Professional Licensed Surveyor (Dennis Sklar, Inc.) is included as Appendix A; site photographs are included as Appendix B.

2.2 Site-specific Geology and Hydrogeology

Unconsolidated materials underlie the Site, including fill material, and underlying native soils consisting of sand, silt, clay, and gravel associated with the Pennsauken formation. As reported by OSEI, the fill consists of miscellaneous soil and rock used to raise the grade of the Site, particularly to the rear (south) of the service building above the drainage ditch. The groundwater at the Site in the uppermost, unconfined water-bearing unit is found from 2 to 8 feet below grade

in the western portion of the Site, and from 4.5 to 8 feet in the northeastern portion depending upon the season. Overall groundwater flow is to the south. Information on deeper hydrogeologic strata at the Site is not known, but information from the NJDEP's GeoWEB database indicates that the Site is located above the Potomac-Raritan-Magothy formation.

2.3 Site History

The Site has been operated as a retail gasoline and service station for over 50 years and has been the subject of multiple site and remedial investigations and remediation related to the UST systems (historic and current) and other Areas of Concern (AOCs) under the NJDEP's Site Remediation Program (SRP). The Site has been under investigation since August 30, 2001 after a drill rig damaged one of the four 6,000-gallon, gasoline USTs then in place; the four USTs were removed from May-June 2003, and replaced with new USTs in the same location. Including the existing UST systems currently on-Site, thirteen (13) AOCs have been identified at the Site, including:

- Historic and current UST systems (AOCs 1, 2, and 4; [gasoline, diesel, heating oil USTs]; former pump island);
- High levels of lead and other contaminants behind the station building (AOC 3);
- Heating and waste oil above ground storage tanks (ASTs [AOCs 5 and 6]);
- Storm drains (AOC 7);
- Drainage swale (AOC 8);
- Former Floor Drains (AOC 9);
- Former Hydraulic Lifts (AOC 10);
- Former Septic System (AOC 11);
- Former Parts Cleaning Basin (AOC 12); and,
- Groundwater (AOC 13).

The Site has the following NJDEP identification numbers: Preferred Identification No. 010180, and Case Nos. 01-08-30-1546-07 and 01-08-30-1549-55. Remediation activities are currently being conducted under the supervision of a NJDEP Licensed Site Remediation Professional (LSRP), Mr. Frank Jasiulewicz, PG, of OSEI. Current tenant operations include retail gasoline and diesel sales and automobile servicing. Details regarding specific activities conducted as part of the investigation of the Site are detailed in the PAR.

The focus of the EE is on the unpaved, undeveloped portion of the site in and adjacent to AOCs 3, 6, and 8; the drainage swale is actually a ditch installed to collect stormwater runoff from the back side of the onsite building. According to the LSRP, with the exception of AOCs 4, 9, and 12, remediation is planned for each of the above-listed AOCs. Other than AOCs 3, 6, 8, and 13 (Groundwater), the remaining AOCs are not further discussed in this report.

3.0 TECHNICAL OVERVIEW

3.1 Soil, Groundwater, Sediment, and Surface Water Data and Data Quality

3.1.1 Data Quality

Existing data include soil, groundwater, and surface water samples described in the previous reports that were prepared for the Site and submitted to the NJDEP by OSEI for review. Since these data were previously submitted to the NJDEP as Electronic Data Deliverables (EDDs) by OSEI, the data are considered acceptable without further data quality review. Analytical data from all sampling events were analyzed by New Jersey-certified laboratories, including SGS North America, Inc. (formerly Accutest Laboratories, NJ Lab Cert. #12129), Eurofins Lancaster Labs (NJ Lab Cert. #PA011), and TestAmerica of King of Prussia, Pennsylvania (NJ Lab Cert. #PA004).

3.2 Ecological Evaluation Objectives

The overall objective of the EE is to evaluate COPECs in soil, groundwater, and surface water, and to provide the data necessary for the development of remedial action alternatives and/or an ERA, as appropriate.

The NJDEP's regulations and guidance require investigation of soil, sediment, and surface water, and EE as part of the site remediation process, when warranted. These requirements are applicable to the Site due to the presence of contaminated soil, and the presence of potential current or historic migration pathways for COPECs to reach ESNRs (e.g., groundwater, direct discharges, surface runoff, etc.). Statistical summaries were completed for soil, groundwater, sediment, and surface water data, based on comparison to the applicable ESCs where appropriate and as further described in Section 4.

The NJDEP's Site Remediation Program (SRP) regulations and guidance require investigation of soil, sediment, and surface water, and ecological evaluation as part of the site remediation process, when warranted. These requirements are applicable at the Site due to the presence of contaminated soil/fill, and potential discharges of storm water and ground water from the Site to surface waters downstream of the Site, i.e., Farrington Lake. In addition to published NJDEP criteria and standards, the data for all media were compared to background concentrations for metals established in the literature, Statistical data summaries were completed for each medium.

Remediation standards and criteria that apply for ecological evaluation of on-site soils data include:

- Soil Screening Levels (Upper and Lower Ecological Soil Screening Levels [USSL, LSSL]) (NJDEP-SRP Webpage; 2009); the USSL is the highest ESC. Similarly, the LSSL represents the lowest ESC.).
- Surface water quality SWQS and surrogate ESCs for Freshwater Aquatic Life Protection (acute and chronic) and Freshwater Aquatic Life Protection (SWQS; NJAC7:9B; NJDEP-SRP Webpage; 2009).

The SWQS are adopted remediation standards in the NJDEP regulations (NJAC7:26D) that include numeric standards for both protection of human health and aquatic life (i.e., ecological receptors). The ESC are numeric guidance values that may be adopted as remediation standards and/or used to identify contaminants in soil, sediment, surface water and adjacent ground water that require further evaluation.

4.0 ECOLOGICAL EVALUATION

The EE was performed to evaluate 1) the environmentally sensitive natural resources (ESNRs) on and adjacent to the North Brunswick Gulf Service Station facility, 2) site-related chemical constituents detected in soil, groundwater, sediment, and surface water that exceed the applicable ESC (i.e., COPECs); and 3) migration pathways (current and former) connecting COPECs to the ESNRs. The EE was completed to address COPECs in accordance with the TRSR and the NJDEP EETG.

The EE included a Site inspection conducted on February 13, 2019 and a review of available topographic maps, wetlands maps, and NJDEP Geographical Information System (GIS) maps, a NJDEP Natural Heritage Program database report, and review of analytical data from previous investigations.

4.1 Environmentally Sensitive Natural Resources

ESNRs include groundwater and environmentally sensitive areas (ESAs) as defined in NJAC 7:1E-1.8, such as wetlands, surface water bodies, and other areas (Attachment 1). The ESNRs meeting the definition of ESAs evaluated during the EE include Farrington Lake and the adjacent riparian area of Farrington Lake where stormwater outfalls are present at the end of Washington Place (Figure 1). For this EE, groundwater was evaluated as a potential migration pathway only. Attachment 1 is a list of ESAs reviewed for the EE.

In addition to a Site inspection, the following sources of information were used to evaluate the potential presence of ESAs on or immediately adjacent to the Site:

- USGS 1995 7.5-Minute Topographic Quadrangle Map, New Brunswick, NJ (**Figure 1**);
- NRCS Web Soil Survey Map (**Figure 2**);
- NJDEP, 2012 GIS Database Land Use/Land Cover Map (**Figure 3**);
- U.S. Fish & Wildlife/NJDEP, National Wetlands Inventory/Wetlands Map (**Figure 4**)
- NJDEP, GIS Database Landscape Project Map (**Figure 5**); and,
- NJDEP, Natural Heritage Program Database response – NJDEP Office of Natural Lands Management (**Attachment 2**).

The identification of ESAs based on a review of the above-referenced sources is discussed below.

4.1.1 USGS Map

According to the 1995 USGS New Brunswick, New Jersey Topographic Quadrangle (Figure 1), the topographic elevation at the Site is generally flat. The topography between the southeastern boundary of the Site and Farrington Lake begins to slope downward towards the southeast until it reaches Farrington Lake, approximately 1,500 feet downgradient of the Site. The UGSS Map does not depict any distinct Site features and no ESNRs are visible on the Site. Farrington Lake is the only ESNR visible in the vicinity of the Site, although it is relatively remote. Farrington Lake is an impoundment of Lawrence Brook, which is classified by the NDJEP as Freshwater Non-Trout (FW2-NT).

4.1.2 NRCS Web Soil Survey Maps

The Natural Resources Conservation Service (NRCS) Web Soil Survey (Figure 2**)** was accessed on January 24, 2019 and depicts the various soil types and their locations on and in proximity of the Site. The dominant (100% site coverage) soil type on the property is classified as Nixon moderately well drained variant-Urban land complex (NktB) and is present throughout the entire property and extensively throughout the local area. All soils around the Site and between the Site and Farrington Lake are of the Nixon soil type.

4.1.3 Wetlands Maps

Figure 4 depicts wetland and surface water features, land use, and wetlands proximal to the Site. The NJDEP Freshwater Wetlands Map included on Figure 4 lists multiple wetland cover type codes proximal to the Site, however no wetlands are mapped on the Site. Proximal to the Site (approximately 1,000 ft. radius), Deciduous Wooded Wetlands, Deciduous Scrub/Shrub Wetlands, and Agricultural Wetlands (Modified) are mapped. The NJDEP Freshwater Wetlands Map does not identify any vegetation in the riparian area associated with Farrington Lake as wetlands. The National Wetland Inventory (NWI) map on this figure similarly identifies wetlands only offsite and to the west of the Site which are categorized as Freshwater Forested/Shrub Wetland (PFO4D and PFO1D) types. Farrington Lake is mapped as a permanently-flooded diked/impounded Lacustrine Limnetic Lake system with an unconsolidated bottom (L1UBHh).

4.1.4 NJDEP GIS Land Use/Land Cover Map

The NJDEP GIS database (2002; updated 2012) was reviewed to identify ESNRs on and immediately adjacent to the Site. The GIS database includes geo-coded files that represent types of land use and land cover for the entire state. The available GIS Land Use/Land Cover areas and types reviewed for this EE are included on Figure 3. As shown on this figure, the GIS database does not identify any wetland or open water cover types on the Site. Land Use at the Site is

depicted as being mapped entirely as Commercial/Services. Land Use at nearby properties are also categorized as Commercial/Services, as well as Residential and Major Roadway, in addition to the Deciduous Wooded Wetland and Deciduous Brush/Shrubland land cover types described previously on the NJDEP Wetland Map shown on Figure 4.

4.1.5 Threatened and Endangered Species Review

The NJDEP Landscape Project includes geo-coded files that represent ranked habitats for state and/or federally threatened and endangered (T&E) species for the entire state. According to the NJDEP's Landscape Project:

> **Rank 1** is assigned to patches that meet habitat-specific suitability requirements such as minimum size criteria for endangered, threatened or priority wildlife species, but that do not intersect with any confirmed occurrences of such species.
>
> **Rank 2** is assigned to patches containing one or more occurrences of species considered to be species of special concern.
>
> **Rank 3** is assigned to patches containing one or more occurrences of at least one State threatened species.
>
> **Rank 4** is assigned to patches with one or more occurrences of at least one State endangered species.
>
> **Rank 5** is assigned to patches containing one or more occurrences of at least one wildlife species listed as endangered or threatened on the Federal list of endangered and threatened species.

Based on the above rank definitions and the NJDEP's definition of ESAs listed in NJAC 7:1E-1.8, habitat areas given a ranking of 3, 4, or 5 are considered T&E species ESAs for the purpose of the EE.

The available Landscape Project areas and types reviewed for this EE are included on Figure 5. The Landscape Project data indicate that no ranked habitats are located on the Site. Located approximately 1000 ft. southeast of the Site are areas that are mapped as Rank 1 and 4, indicating that there are areas remote from the Site where there are habitats with specific suitability requirements as well as areas that may include possible State endangered species habitats. Note that Farrington Lake is listed as a Rank 4 habitat.

TRC submitted a request to the Office of Natural Lands Management (ONLM) on January 25, 2019, for a Natural Heritage Program database review of threatened or endangered plant and animal species known to exist on-site or in the surrounding area. Based on the ONLM February

22, 2019 response letter (Attachment 2), Threatened or Endangered Species and suitable habitat for these species were not identified on the Site, however there are potential suitable habitats for Threatened and Endangered species within the vicinity of the Site (Farrington Lake). The species identified in the ONLM letter were the Bald Eagle (*Haliaeetus leucocephalus*) and the Great Blue Heron (*Ardea herodias*), both associated with aquatic habitat.

4.1.6 Ecological Evaluation Site Inspection

TRC conducted an EE inspection of the Site on February 13, 2019. The inspection was conducted by William Cordasco of TRC, Senior Scientist, accompanied by Frank Jasiulewicz of OSEI (LSRP). The owner of the Site, Mr. Walter Lapp, was also briefly present at the conclusion of the inspection. The weather at the time of the inspection was clear and breezy, with a temperature range of 35-40 degrees Fahrenheit. The ground was partially obscured by a thin layer of sleet and snow that had fallen the previous day. The inspection focused on the southern portion of the Site where areas of exposed soil/fill and the on-Site drainage ditch are located. The drainage ditch is connected to the municipal stormwater collection system, which appears to discharge to Farrington Lake. The drainage ditch and the municipal stormwater collection system are potential migration pathways to Farrington Lake.

Evidence of discharges were not observed during the visual inspection of the Site. However, as discussed with OSEI and based on a review of the PAR, the areas between the service station building up to and, including the drainage ditch (AOC 8) contain fill material that has been investigated and shown to contain several COPECs, including VOCs, PAHs and lead above the ESC. There were no visible areas of staining on the snow/ice or in areas of exposed soil at the time of inspection. Since the ditch appears to be a potential migration pathway for Site-related contaminants and was historically sampled for analysis of Site-related chemical constituents, it was inspected and photographed during the EE and prior site visits by OSEI (Appendix B). The ditch is lined with rip-rap stone which is overlain by a layer of leaves, twigs, plastic bottles, and other trash. Limited standing water from recent rain and snow melt was observed in the ditch, but did not exhibit sheen or other visible evidence of contamination, and no odors were present. Vegetation in the area adjacent to the ditch had been previously removed by the Owner according to OSEI as part of general maintenance, as evidenced by several tree stumps that appeared to be recently cut. Herbaceous cover (weeds, grass) was either in winter dormancy or covered by ice, so an assessment of its condition could not be completed. The area above the ditch is frequently trafficked by maintenance personnel and is mowed, which may affect the condition of the herbaceous cover.

TRC and OSEI inspected the portion of Farrington Lake nearest the Site and containing the local stormwater outfalls, which is located approximately 1,500 feet south of the Site east of the

intersection where Washington Place meets the Hardenburg Road bridge (Figure 1). Single-family residential properties are located between the Site and Farrington Lake. Two pipe outfalls were observed along Farrington Lake that were actively discharging stormwater at the time of the inspection. The outfalls included a 48-inch diameter concrete pipe discharging to a small embayment of the lake, and an 18-inch diameter concrete pipe discharging to the same area from below Washington Place. The discharging stormwater appeared clear and free of sheen or odor. The lakefront in the area of the outfalls consists of a narrow band of deciduous woodland with numerous saplings in the understory, all in winter dormancy. There was no visible evidence of contamination observed on the ground surface, or on the lake bottom visible from shore. Evidence of wildlife including mammals or birds, was not noted during the inspection, though what appeared to be the tracks of a Raccoon were visible in the snow in the wooded area.

4.2 Contaminants of Potential Ecological Concern

The COPECs were identified by evaluating existing analytical results from the previous environmental investigations conducted over the course of nearly two decades of environmental investigation at the Site, which included sampling of soil and groundwater, and limited surface water in the on-Site ditch. Depending upon the associated chemicals used/stored in specific AOCs, environmental media were sampled and analyzed at laboratories certified by the NJDEP for volatile organic compounds (VOC), semi- volatile organic compounds (SVOC), pesticides, polychlorinated biphenyls (PCBs), metals, and other physico-chemical parameters. Data for on-site soil, groundwater, and surface water samples with constituents detected above the ESCs (*e.g.*, COPECs) is presented on Tables 1, 2, and3. A site-wide soil and groundwater sample location map identifying all soil samples and monitoring wells sampled for use in COPEC evaluation is provided as Figure 6. A survey of the Site prepared by Dennis Sklar, Inc. dated October 26, 2018 is included as Appendix A and identifies all soil, groundwater, and surface water sample locations on the Site and adjacent properties.

The existing analytical results for soil, surface water samples previously collected during the investigatory and monitoring activities completed by OSEI were compared to the NJDEP's ESCs to identify COPECs, as further discussed below. Groundwater data obtained from monitoring wells were compared to the surface water ESCs for the most recent sampling events (October and November 2018; January 2019 [downgradient well MW-20, only]). COPECs identified for the EE include those chemical constituents detected in more than 10% of any environmental media samples (*i.e.*, for soil or surface water: the percent frequency or [total number of detections/total number of samples analyzed]*100). Constituents that are not identified as hazardous substances per NJAC 7:1E, such as the major elements (e.g., Al, Ca, Fe, K, Mg, Mn, Na), were not considered COPECs.

According to the TRSR and NJDEP's EETG, COPECs include substances that exhibit the ability to biomagnify or bioaccumulate, or that are present at concentrations that exceed NJDEP's ESC or aquatic life protection-based Surface Water Quality Standards (SWQS). The soil and sediment ESCs are benchmark guidance values for ecological evaluation that were derived from numerous scientific studies and, with the exception of some ESCs that are based on the NJDEP SWQS, are not remediation standards. ESCs are generally applied to samples obtained from within ESNR areas, but may also be used to screen data from non-ESNR locations. The SWQS are Remedial Standards that are applicable to the surface water portions of ESNRs.

The COPECs identified for the Site are listed below based on the screening process (*i.e.*, > 10% detection frequency):

Contaminants of Potential Ecological Concern			
Metals	Arsenic	Barium	Cadmium
	Chromium	Cobalt	Copper
	Lead	Mercury	Nickel
	Vanadium	Zinc	
Volatile Organic Compounds	Benzene	Ethylbenzene	Xylenes (total)
	Toluene		
Semi-Volatile Organic Compounds	Acenapthene	Anthracene	Benzo(a)pyrene
	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(ghi)perylene
	Bis(2-Ethylhexyl)phthalate	Chrysene	Dibenz(a,h)anthracene
	Fluoranthene	HMW PAHs	Indeno(1,2,3-cd)pyrene
	LMW PAHs	Napthalene	Phenanthrene
	Pyrene		

As noted in Section 3, the applicable ESCs for COPECs identified within the areas of the Site in undeveloped vegetated areas are listed below:

- Soil Screening Levels (Upper and Lower Ecological Soil Screening Levels [USSL, LSSL]) (NJDEP-SRP Webpage; 2009); the USSL is the highest ESC. Similarly, the LSSL represents the lowest ESC.).
- Surface water quality SWQS and surrogate ESCs for Freshwater Aquatic Life Protection (acute and chronic) and Freshwater Aquatic Life Protection (SWQS; NJAC7:9B; NJDEP-SRP Webpage; 2009).

The surface water SWQS and ESCs were used for comparison to groundwater analytical results and to the limited analytical results for incidental water samples in the drainage ditch.

Summary statistics tables provided in the following sections were prepared for all constituents detected above the ESCs regardless of their detection frequencies. Tables 1-3 summarize all data for the areas of the Site that are undeveloped compared to the soil, groundwater, or surface water ESCs. Figure 6 includes a map of all soil (upper 1 foot), surface water, and groundwater analytical sampling locations used in the COPEC evaluation.

4.2.1 Soil

Soil data was evaluated across the entire Site with respect to ESC comparison (Table 1). However, while many soil samples were collected in both developed (paved or built over) and undeveloped areas, only samples located in undeveloped areas and in the active biological interval (0-1 foot below ground surface) were considered in developing the list of COPECs as they represent potential ecological exposures. Soil samples for the Site were compared to the ESCs, and as shown below, were separated into two data sets, one of the majority of the Site, the other for the on-site drainage ditch.

Summary statistics for soil COPECs are provided below for all soil samples excluding those collected in the on-site drainage ditch:

Parameter (mg/kg)	Standards/Criteria		Site Data Summary					Frequency			
	LSSL	USSL	n (site)	Min. Conc.	Max. Conc.	Mean Conc.	SD	# Detected	% Detected	# > LSSL	# > USSL
Acenaphthene	20	--	17	0	27.9	2.021	6.735	10	59%	1	NA
Barium	283	2000	17	0	401	68.906	87.84	16	94%	1	0
Benzo(a)pyrene	1.52	--	17	0	236	19.347	57.79	16	94%	8	NA
Benzo(a)anthracene	5.21	--	17	0.023	233	18.305	56.65	17	100%	4	NA
Benzo(b)fluoranthene	59.8	--	17	0.035	281	23.27	68.86	17	100%	2	NA
Benzo(ghi)perylene	119	--	17	0	167	14.42	41.26	16	94%	1	NA
bis(2-Ethylhexyl)phthalate	0.925	--	3	0	1.1	0.473	0.566	2	67%	1	NA
Cadmium	0.36	140	18	0	1.3	0.312	0.432	7	39%	7	0
Chromium	0.4	1	17	12.7	68.5	35.2	18.03	17	100%	17	17
Chrysene	4.73	--	17	0.024	249	19.456	60.5	17	100%	4	NA
Cobalt	0.14	230	17	0	18.3	8.082	7.471	10	59%	10	0
Copper	5.4	100	17	11.9	273	67.941	66.91	17	100%	17	4
Dibenz(a,h)anthracene	18.4	--	17	0	48.1	3.852	11.72	13	76%	1	NA
EPH, TOTAL NON-FRACTIONATED (C09-C40)	1700	4000	22	65.8	6790	1095.818	1937	22	100%	2	1
Fluoranthene	122	--	17	0.033	643	48.399	156.2	17	100%	2	NA
High Molecular Weight PAHs	1.1	18	17	0.206	1990.4	160.155	485.3	17	100%	14	6
Indeno(1,2,3-cd)pyrene	109	--	17	0	136	11.994	33.52	16	94%	1	NA
Lead	0.0537	1700	31	6.2	343	62.981	71.99	31	100%	31	0
Low Molecular Weight PAHs	29	100	19	0	1204.3	78.859	276.2	17	89%	3	2

Parameter (mg/kg)	Standards/Criteria		Site Data Summary					Frequency			
	LSSL	USSL	n (site)	Min. Conc.	Max. Conc.	Mean Conc.	SD	# Detected	% Detected	# > LSSL	# > USSL
Mercury	0.00051	0.3	22	0	0.093	0.025	0.036	8	36%	8	0
Naphthalene	0.0994	--	19	0	14.8	0.847	3.382	9	47%	5	NA
Nickel	13.6	280	17	7.2	38.3	22.612	11.86	17	100%	11	0
Phenanthrene	45.7	--	17	0	423	29.732	102.1	16	94%	2	NA
Pyrene	78.5	--	17	0.045	575	43.256	139.2	17	100%	2	NA
Vanadium	2	280	17	19.4	80	47.329	20.57	17	100%	17	0
Zinc	6.62	160	18	30.7	572	137.844	132.8	18	100%	18	3

Summary statistics for soil COPECs are provided below for soil samples collected in the on-site drainage ditch:

Parameter (mg/kg)	Standards/Criteria		Site Data Summary					Frequency			
	LSSL	USSL	n (site)	Min. Conc.	Max. Conc.	Mean Conc.	SD	# Detected	% Detected	# > LSSL	# > USSL
Benzene	0.255	--	5	0	6.2	1.24	2.773	1	20%	1	NA
Benzo(a)pyrene	1.52	--	3	0.44	1.7	1.02	0.636	3	100%	1	NA
Cadmium	0.36	140	5	0.79	1.8	1.172	0.404	5	100%	5	0
Chromium	0.4	1	5	16	34.8	24.82	7.326	5	100%	5	5
Cobalt	0.14	230	5	0	10	5.94	3.666	4	80%	4	0
Copper	5.4	100	5	44.4	458	177.54	174.9	5	100%	5	2
EPH, TOTAL NON-FRACTIONATED (C09-C40)	1700	4000	8	374	2730	1090	1019	8	100%	1	0
Ethylbenzene	5.16	--	5	0	285	57	127.5	2	40%	1	NA
High Molecular Weight PAHs	1.1	18	3	3.353	12.2	7.821	4.424	3	100%	3	0
Lead	0.0537	1700	6	37.7	68.6	54.467	11.47	6	100%	6	0
Low Molecular Weight PAHs	29	100	5	0	152	31.444	67.4	4	80%	1	1
Mercury	0.00051	0.3	5	0.091	0.67	0.2262	0.249	5	100%	5	1
Naphthalene	0.0994	--	5	0	152	30.417	67.97	4	80%	1	NA
Nickel	13.6	280	5	15.6	27.9	19.94	5.631	5	100%	5	0
Vanadium	2	280	5	20.8	39.2	28.04	7.088	5	100%	5	0
Zinc	6.62	160	5	184	348	245.8	66.73	5	100%	5	5
Xylenes (total)	10	--	5	0	2786	557.201	1246	2	40%	1	NA

In general, several metals and PAHs were detected above the LSSLs. Of the COPECs detected in individual soil samples above the LSSLs, chromium, copper, total non-fractionated extractable petroleum hydrocarbons (EPH), high molecular weight PAHs (HMW PAHs), low molecular weight PAHs (LMW PAHs), mercury, and zinc, were also detected at concentrations above the USSL. However, the mean concentrations of copper, LMW PAHs, mercury, and zinc were below

their respective USSL. While EPH was detected above the USSL in one sample in the non-ditch samples, its mean concentration (1,095 mg/kg) is below both the USSL and LSSL.

The concentration range for metals in general is similar to, or below, the published concentration ranges in New Jersey's Piedmont Region soils, with the exception of chromium, copper, and zinc where concentrations at the site exceed both the mean and maximum published concentrations.

A summary of mean and maximum literature values for metals in New Jersey Piedmont Region soils is provided below.[1] [2]

Metal	Mean Concentration	Maximum Concentration
Barium	109	618
Cadmium	0.33	2.3
Chromium	20.3	54.4
Cobalt	7.4	26.6
Copper	38.7	139
Lead	138.9	464
Mercury	0.33	3
Nickel	15.5	57.5
Vanadium	32.3	81.1
Zinc	93	354

Source: *Characterization of Ambient Levels of Selected Metals and Other Analytes in New Jersey Soils: Year 1, Urban Piedmont Region* (May 1997)

The differences between the COPECs detected in the drainage ditch and those detected in the upper one foot of soils elsewhere on the Site that suggest they represent anomalies when compared to their presence or absence in non-ditch soils. For example, benzene, ethylbenzene, and xylenes were detected above the ESC in the ditch samples, but were not detected above the ESC in non-ditch samples. Soils within the ditch contain only two of the 11 HMW PAHs detected above the ESC in the non-ditch soil samples, and at lower concentrations (benzo(a)pyrene and naphthalene). Of the metals, only copper was detected above the regional background concentrations, and it was detected at concentrations above those in the non-ditch soil samples. EPH was detected above the LSSL in only 1 of 5 soil samples, and its mean concentration (1,090 mg/kg) is below the LSSL. Overall, there are fewer COPECs detected in the ditch soils compared to number of COPECs detected in non-ditch soils.

[1] BEMS Systems, Inc. *Characterization of Ambient Levels of Selected Metals and Other Analytes in New Jersey Soils: Year 1, Urban Piedmont Region* (May 1997)

[2] NJDEP Research Project Summary *Ambient Levels of Metals in New Jersey Soils* (May 2003) by Paul F. Sanders).

4.2.1.1 Conclusions

The concentrations of several heavy metals, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs) in the undeveloped area soils on the site (both ditch and non-ditch soils) are present above the USSL and/or the LSSL. It is likely that the presence of some of these contaminants are in part related to the historic use of fill at the Site in addition to historic site operations.

While EPH is identified as a COPEC and is present at the Site above the LSSL and the USSL in the upper 1-foot of soil, only 9% of the samples detected (2 total) were above the LSSL and less than 5% were detected (1 total) above the USSL. The two samples detected above the LSSL for EPH were at the P9 and P10 locations located near the above-ground storage tank behind the service station building. EPH was also detected at the P10 location above the USSL, at a concentration of 6,790 mg/kg. Soil samples were collected and analyzed for EPH at the P11, P60, and P100 locations, which are hydrologically downgradient from the P9 and P10 locations, and EPH concentrations were detected below the LSSL and USSL (Figure 6). Since there are sample locations with concentrations below the soil ESCs for EPH located between the P9 and P10 locations and the onsite drainage ditch, a migratory pathway for EPH to reach an ESNR via runoff or soil erosion does not appear to be complete, therefore EPH is not considered to be a concern at the Site.

The notable differences between the type, frequency, and concentration of COPECs detected in the ditch versus the non-ditch samples suggest that migration of Site-related COPECs from surface soils (0-1 feet) to the ditch is minimal.

4.2.2 Groundwater Migration Pathways

As noted in the groundwater monitoring data submitted to the NJDEP, groundwater monitoring well installations began at the Site in the early 2000s. As noted in Section 1, EDDs for all groundwater data have been previously provided to the NJDEP by OSEI. Groundwater was evaluated for the EE as a migration pathway only, as it is a potential means for COPECs to reach ESNRs, i.e., Farrington Lake.

4.2.2.1 Groundwater Quality Data

Groundwater quality data evaluated as part of the EE was obtained from the most recent site-wide groundwater monitoring events (2018 and 2019), from the following monitoring wells:

Date of Sampling	Monitoring Well
10/3/2018	MW17
10/3/2018	MW18
10/4/2018	MW19
11/15/2018	MW18
1/18/2019	MW20

The groundwater analytical results data was compared to the freshwater ESC and related SWQS (Table 2). Groundwater samples analyzed for metals were not filtered. Thus, groundwater data represent total recoverable analyte concentrations.

Summary statistics for COPECs detected in groundwater above the freshwater ESCs are provided below:

COPEC (ug/l)	Standards/Criteria		Site Data Summary				Frequency			
	ESC Acute	ESC Chronic	n (site)	Min. Conc.	Max. Conc.	Mean Conc.	# Detected	% Detected	# > ESC Acute	# > ESC Chronic
Anthracene	--	0.04	9	0	1.7	0.49	3	33%	NA	3
Barium	--	220	7	0	223	61.9	2	29%	NA	1
Benzene	--	114	6	0	868	145	1	17%	NA	1
Benzo(a)anthracene	--	0.03	9	0	0.21	0.05	3	33%	NA	3
Chromium	--	42	7	0	171	24.4	1	14%	NA	1
Cobalt	--	24	7	0	83.3	33.7	3	43%	NA	3
Copper	3.44	2.6	7	0	245	65.1	6	86%	6	6
Ethylbenzene	--	14	6	0	1790	298	1	17%	NA	1
Lead	38	5.4	7	0	67	12.6	4	57%	1	3
Naphthalene	--	13	9	0	448	63.1	6	67%	NA	5
Nickel	122	13.7	7	0	132	59.2	6	86%	2	5
Phenanthrene	--	3.6	9	0	8.9	2.68	5	56%	NA	3
Pyrene	--	0.3	9	0	1.2	0.32	3	33%	NA	3
Toluene	--	253	6	0	1960	327	1	17%	NA	1
Vanadium	--	12	7	0	589	84.1	1	14%	NA	1
Zinc	35	35.2	7	0	701	208	6	86%	6	6
Xylenes (total)	--	27	6	0	8790	1465	1	17%	NA	1

The organic constituents including several of the PAHs (LMW and HMW) and metals were detected with mean concentrations exceeding the chronic surface water ESCs. Note that only certain of the metals have an Acute Chronic Life ESC. PAHs, benzene, ethylbenzene, toluene,

xylenes (BTEX), and lead are among the COPECs detected in groundwater above the surface water ESCs that would be expected to be related to the Site operations.

4.2.2.2 Conclusions

Groundwater flow that could potentially serve as a migration pathway for COPECs detected in soils at the Site has been evaluated for nearly two decades. Groundwater flow at the Site is toward the south and Farrington Lake, and groundwater COPECs (VOCs [BTEX], SVOCs [PAHs], and metals) have been delineated as shown on the contaminant iso-concentration maps included in Appendix C. Appendix C also includes a groundwater flow contour map. Note that only metals and less mobile organic constituents were detected in off-Site groundwater. The less mobile organics (i.e., PAHs) were not detected above the ESC in the most downgradient off-site well (MW-20) in the most recent samples. Metals are higher in MW-20 than in the well upgradient of MW-20 (MW-18) where they are largely absent, which suggests that these constituents are not Site-related. The maps indicate that Site-related groundwater contamination does not extend more than approximately 50 feet from the Site (Appendix C; Figure 6), and groundwater is not a pathway for COPEC migration to surface water. Therefore, based on the limited extent of the COPECs detected in groundwater, the previously completed remediation efforts (UST removals), and the remote location of Farrington Lake (1,500 feet to the south), the nearest ESNR, further ecological investigation involving groundwater is not warranted.

4.2.3 Surface Water

Two surface water samples were collected when water was present in the onsite drainage ditch (AOC 8). These samples were analyzed for VOCs, SVOCs, and lead (Table 3). Surface water from the drainage ditch is only present during periods of significant precipitation and the ditch is generally dry throughout the year.

Analytical Results

Summary statistics for COPECs detected in surface water above the SWQS are provided below:

COPEC (ug/l)	Standards/Criteria		Site Data Summary				Frequency			
	ESC Acute	ESC Chronic	n (site)	Min. Conc.	Max. Conc.	Mean Conc.	# Detected	% Detected	# > ESC Acute	# > ESC Chronic
Benzo(a)anthracene	--	0.025	2	0	0.19	0.09	1	50%	NA	1
bis(2-Ethylhexyl)phthalate	--	0.3	2	0	1.1	0.55	1	50%	NA	1

The only COPECs detected in episodically present surface water were benzo(a)anthracene and bis(2-ethylhexyl)phthalate; both compounds were detected above the surface water ESC for chronic aquatic life exposure. Note that of the two surface water samples collected and analyzed for SVOCs, only one sample resulted in a detection above the chronic aquatic life ESCs at 0.19 µg/L, while benzo(a)anthracene was not detected in the other sample above the MDL. It should be noted that these surface water samples were collected during periods of stormwater flow to this otherwise dry ditch.

4.2.3.1 Conclusions

The COPECs detected in the surface (storm) water samples are likely associated with urban runoff, and are present at relatively low concentrations. When present, the stormwater in the ditch that flows off-Site is minimal with respect to what is collected by the municipal storm sewers serving the surrounding region that discharge to Farrington Lake, and the ditch is lined with rip rap. The analytical results show that the only COPECs detected in surface waters above ESCs for chronic exposure are benzo(a)anthracene and bis(2-ethylhexyl)phthalate, which readily bind to organic matter, and are at concentrations that would not pose an issue to the remote surface water ESNR (Farrington Lake). Therefore, the potential for migration of soils from the ditch is considered to be minimal.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are made based upon the EE conducted for the Site:

- There are no ESNRs on, adjacent to, or in the immediate vicinity of the Site. The nearest ESNR is Farrington Lake, located approximately 1,500 feet down-gradient. Indicators of discharges to the ESNR such as seeps, discolored sediment, sheen, stained or stressed lakefront vegetation, or wildlife were not observed during the EE site inspection.
- Soil and ground water analytical data from samples obtained on and near the Site contain COPECs including VOCs, SVOCs, and metals at concentrations above their respective ESCs, and may be associated with the Site operations and/or historic fill.
- Potential COPEC migration pathways include groundwater flow and the municipal storm sewers. However, COPECs in groundwater extend only a short distance (approx. 50 feet) off-Site. Also, there is no evidence of erosion of Site soils from the on-Site drainage ditch, which is typically dry and lined with rip-rap. Therefore, there is no complete migration pathway from the Site to the nearest ESNR (i.e., Farrington Lake, 1,500-feet to the south of the Site).

Based on the results of the EE, further ecological evaluation is not warranted.

The condition of the drainage ditch should be maintained (e.g., adding/replacing rip-rap as needed, etc. to limit potential for erosion).

It is our understanding that the LSRP for the Site may propose remediation of soils in AOCs 3, 6, and 8 to address other provisions of the Site Remediation Program not related to ecological concerns, which would be expected to mitigate potential COPEC migration to the ditch.

6.0 REFERENCES

NJDEP 1997 *Characterization of Ambient Levels of Selected Metals and Other Analytes in New Jersey Soils: Year 1, Urban Piedmont Region* October 1998

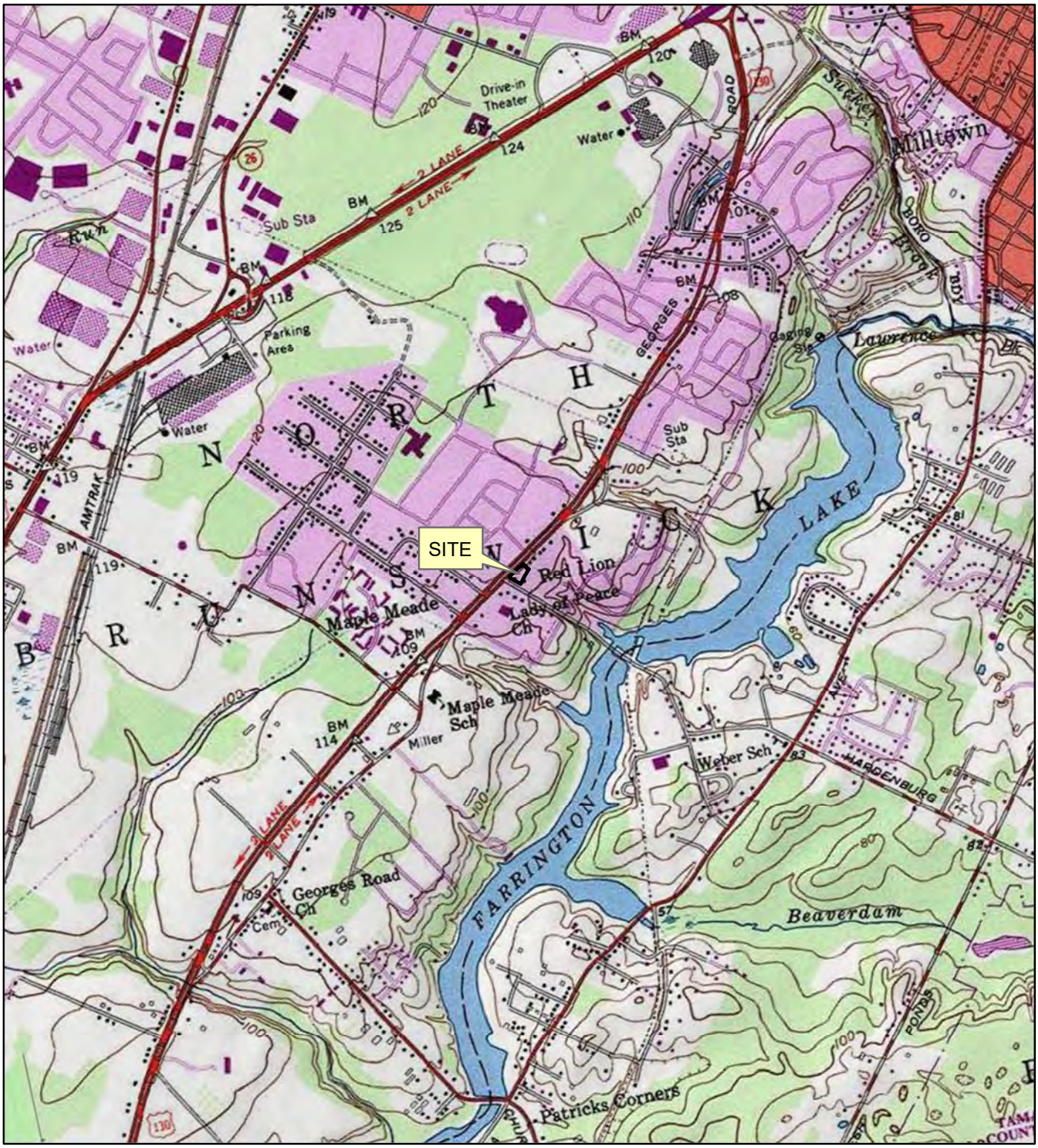
NJDEP 2003 *Research Project Summary - Ambient Levels of Metals in New Jersey Soils* (May 2003) by Paul F. Sanders (Sanders 2003).

NJDEP 2012 N.J.A.C. 7:26E *Technical Requirements for Site Remediation*, date last amended May 7, 2012.

NJDEP 2018 NJDEP's *Ecological Evaluation Technical Guidance Ver. 1.4 January 2018*

On-Site Environmental, Inc. *Preliminary Assessment Report, North Brunswick Gulf 1696 Georges Road, North Brunswick, New Jersey* August 2016

FIGURES



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

TRC
41 Spring Street
New Providence, NJ 07974
Phone: 908.988.1700
TRC - GIS

PROJECT:

NORTH BRUNSWICK GULF STATION
1696 GEORGES ROAD
NORTH BRUNSWICK, MIDDLESEX COUNTY, NEW JERSEY

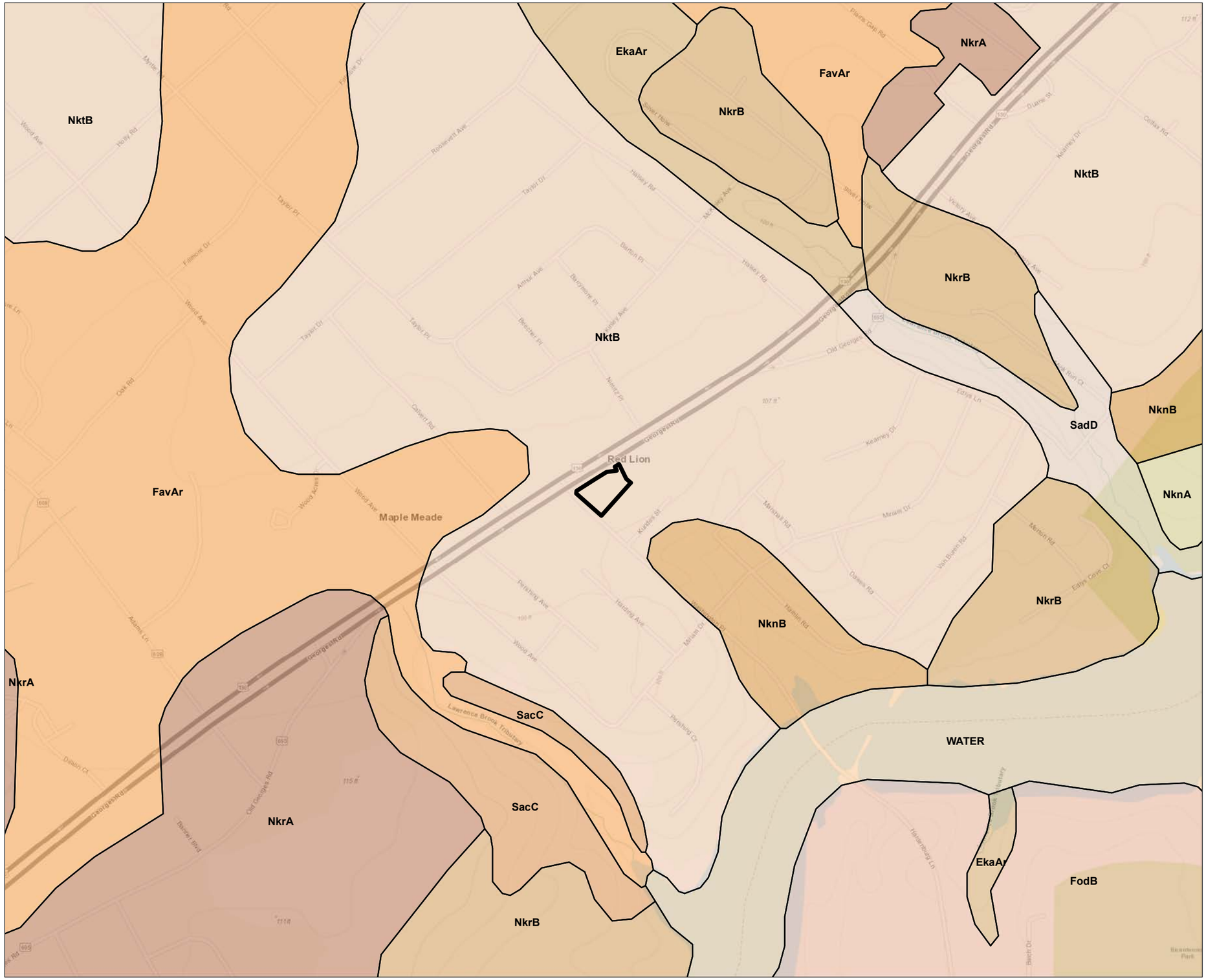
TITLE:

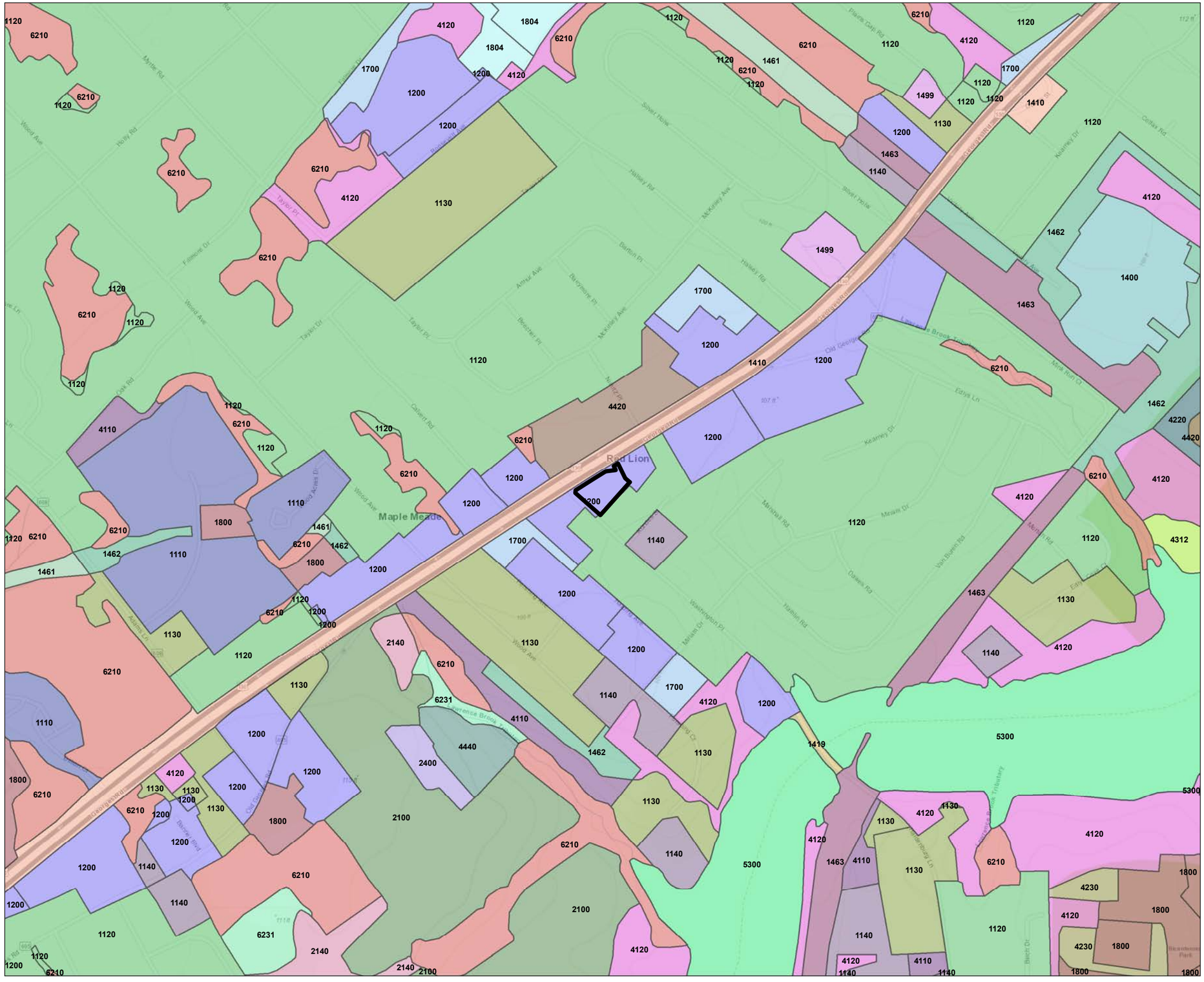
SITE LOCATION MAP

DRAWN BY:	M. GIAMBATTISTA
CHECKED BY:	E. O'CONNOR
APPROVED BY:	B. CORDASCO
DATE:	FEBRUARY 2019
PROJ. NO.:	325435
FILE:	SLM

FIGURE 1

M:\ArcGIS Files\325435\SLM.mxd -- Saved By: MGIAMBATTISTA on 2/1/2019, 14:01:23 PM


EkaAr
NkrA
FavAr
NkrB
NktB
NkrB
NktB
NkrB
NktB
SadD
NknB
NknA
Red Lion
FavAr
Maple Meade
NknB
NkrB
NkrA
SacC
WATER
SacC
NkrA
SacC
EkaAr
FodB
NkrB
Georges Rd
Old Georges Rd
Lawrence Brook Tributary
Kearney Dr
Van Buren Rd
Melon Rd
Hardy Ave
Parkhurst Ave
Wood Ave
Rockwell Ave
Taylor Dr
Harvey Rd
Arthur Ave
Barton Pl
Bleecker Pl
Calvert Rd
Mirwil Dr
Mirwil Rd
Oswick Rd
Hamlin Rd
Parkhurst Ct
Hardy Ave
Melissa Ct
Edys Cove Ct
Cedar Rd
Cole Rd
Holly Rd
Myrtle Ave
Forster Dr
Fillmore Dr
Adams Ln
Dawes Blvd
Dawes Ct
Elaine Ln
Birch Dr
Hazelhurst Ln
Bleecker Pl
Nuttall Pl
Barrymore Pl
Kurdes Dr
Mirwil Rd
Plains Gap Rd
Street Rock
Victory Ave
Old Georges Rd
Kearney Dr
Melon Rd
Edys Cove Ct
Van Buren Rd
Oswick Rd
Hamlin Rd
Parkhurst Ct
Hardy Ave
Melissa Ct
Lawrence Brook Tributary
Old Georges Rd
Dawes Blvd
Dawes Ct
Adams Ln



Legend

- SITE BOUNDARY
- 2140 - AGRICULTURAL WETLANDS (MODIFIED)
- 5300 - ARTIFICIAL LAKES
- 1804 - ATHLETIC FIELDS (SCHOOLS)
- 1419 - BRIDGE OVER WATER
- 1200 - COMMERCIAL/SERVICES
- 4220 - CONIFEROUS FOREST (>50% CROWN CLOSURE)
- 2100 - CROPLAND AND PASTURELAND
- 4420 - DECIDUOUS BRUSH/SHRUBLAND
- 4110 - DECIDUOUS FOREST (10-50% CROWN CLOSURE)
- 4120 - DECIDUOUS FOREST (>50% CROWN CLOSURE)
- 6231 - DECIDUOUS SCRUB/SHRUB WETLANDS
- 6210 - DECIDUOUS WOODED WETLANDS
- 1410 - MAJOR ROADWAY
- 4440 - MIXED DECIDUOUS/CONIFEROUS BRUSH/SHRUBLAND
- 4312 - MIXED FOREST (>50% CONIFEROUS WITH >50% CROWN CLOSURE)
- 5200 - NATURAL LAKES
- 2400 - OTHER AGRICULTURE
- 1700 - OTHER URBAN OR BUILT-UP LAND
- 4230 - PLANTATION
- 1800 - RECREATIONAL LAND
- 1110 - RESIDENTIAL, HIGH DENSITY OR MULTIPLE DWELLING
- 1140 - RESIDENTIAL, RURAL, SINGLE UNIT
- 1130 - RESIDENTIAL, SINGLE UNIT, LOW DENSITY
- 1120 - RESIDENTIAL, SINGLE UNIT, MEDIUM DENSITY
- 1499 - STORMWATER BASIN
- 1400 - TRANSPORTATION/COMMUNICATION/UTILITIES
- 1462 - UPLAND RIGHTS-OF-WAY DEVELOPED
- 1463 - UPLAND RIGHTS-OF-WAY UNDEVELOPED
- 1461 - WETLAND RIGHTS-OF-WAY

0 500 1,000 Feet

PROJECT:
NORTH BRUNSWICK GULF STATION
1696 GEORGES ROAD
NORTH BRUNSWICK, MIDDLESEX COUNTY, NJ

TITLE:
GIS DATABASE LAND USE/LAND COVER MAP

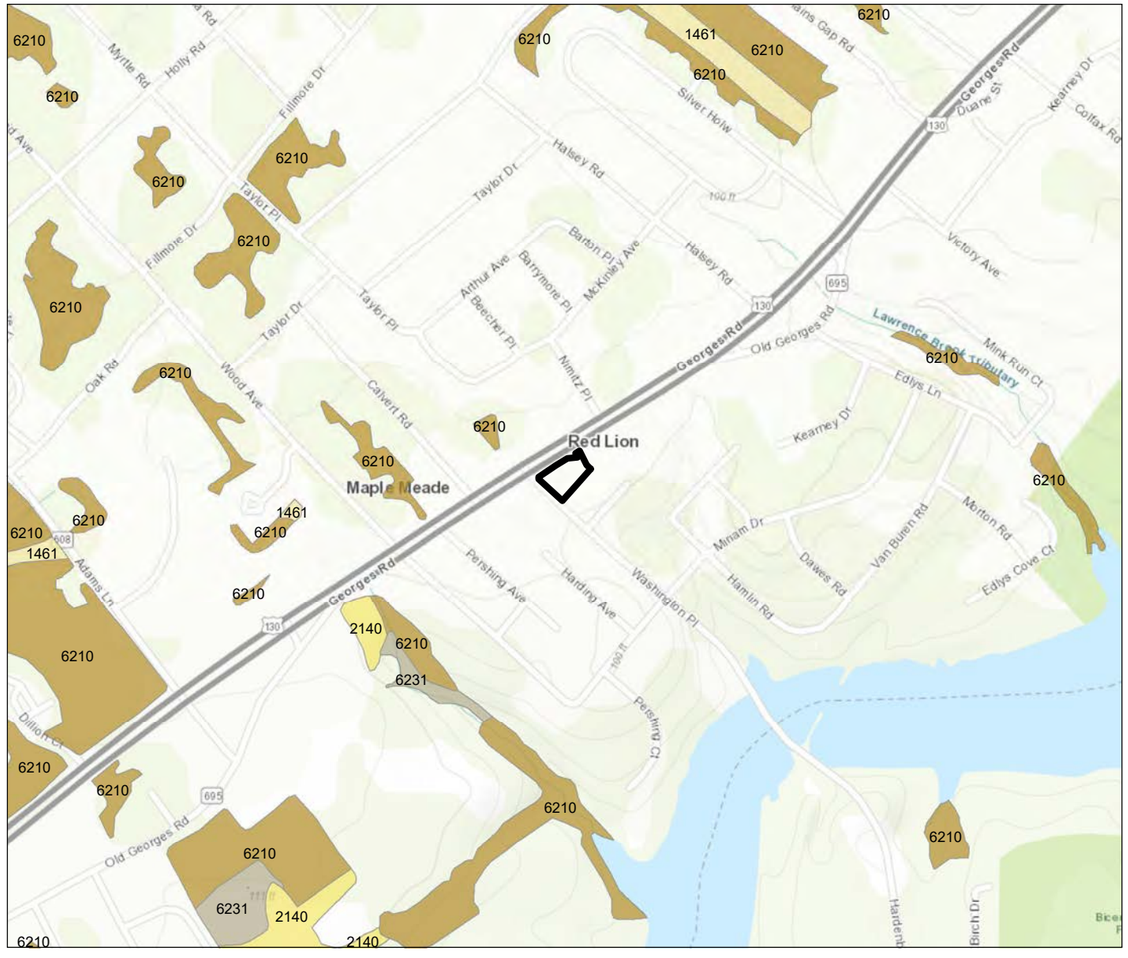
DRAWN BY:	M. GIAMBATTISTA	PROJ. NO.:	325435
CHECKED BY:	E.O'CONNOR		
APPROVED BY:	W. CORDASCO		**FIGURE 3**
DATE:	MARCH 2019		

TRC
708 Heartland Trail, Suite 3000
Madison, WI 53717
Phone: 608.826.3600
www.trcsolutions.com

FILE NO.: LandUse.mxd

Plot Date: 3/20/2019, 11:57:15 AM by ODELEON -- LAYOUT: ANSI B(11"x17")
Path: M:\ArcGIS Files\325435\LandUse.mxd
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0

TRC - GIS



NJDEP FRESH WATER WETLANDS MAP

Legend

- SITE BOUNDARY
- 2140 - AGRICULTURAL WETLANDS (MODIFIED)
- 6231 - DECIDUOUS SCRUB/SHRUB WETLANDS
- 6210 - DECIDUOUS WOODED WETLANDS
- 1461 - WETLAND RIGHTS-OF-WAY



NATIONAL WETLANDS MAP

Legend

- SITE BOUNDARY
- L1UBHh - Lake
- PEM1C - Freshwater Emergent Wetland
- PEM1E - Freshwater Emergent Wetland
- PFO1C - Freshwater Forested/Shrub Wetland
- PFO1Ch - Freshwater Forested/Shrub Wetland
- PFO1D - Freshwater Forested/Shrub Wetland
- PFO1E - Freshwater Forested/Shrub Wetland
- PFO4D - Freshwater Forested/Shrub Wetland
- PSS1D - Freshwater Forested/Shrub Wetland
- R2UBH - Riverine
- R2UBHx -Riverine
- R4SBC - Riverine
- R5UBH - Riverine

0 800 1,600 Feet

PROJECT:
NORTH BRUNSWICK GULF STATION
1696 GEORGES ROAD
NORTH BRUNSWICK, MIDDLESEX COUNTY, NJ

TITLE:
NJDEP & NATIONAL WETLANDS INVENTORY MAP

DRAWN BY:	M. GIAMBATTISTA	PROJ. NO.:	325435
CHECKED BY:	E. O'CONNOR		
APPROVED BY:	W. CORDASCO		**FIGURE 4**
DATE:	MARCH 2019		

TRC
41 Spring Street
New Providence, NJ 07974
Phone: 908.988.1700
www.trcsolutions.com

FILE NO.: Wetlands.mxd

TRC - GIS
Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0
Plot Date: 3/20/2019, 11:59:47 AM by ODELEON -- LAYOUT: ANSI B(11"x17")
Path: M:\ArcGIS Files\325435\Wetlands.mxd

TRC - GIS

Plot Date: 3/20/2019, 12:02:09 PM by ODELEON – LAYOUT: ANSI B(11"x17")
Path: M:\ArcGIS Files\325435\Landscape.mxd

Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet (Foot US)
Map Rotation: 0



Legend

- SITE BOUNDARY
- Rank 1 - Habitat Specific Requirements
- Rank 2 - Special Concern
- Rank 3 - State Threatened
- Rank 4 - State Endangered

0 500 1,000 Feet

PROJECT:
NORTH BRUNSWICK GULF STATION
1696 GEORGES ROAD
NORTH BRUNSWICK, MIDDLESEX COUNTY, NJ

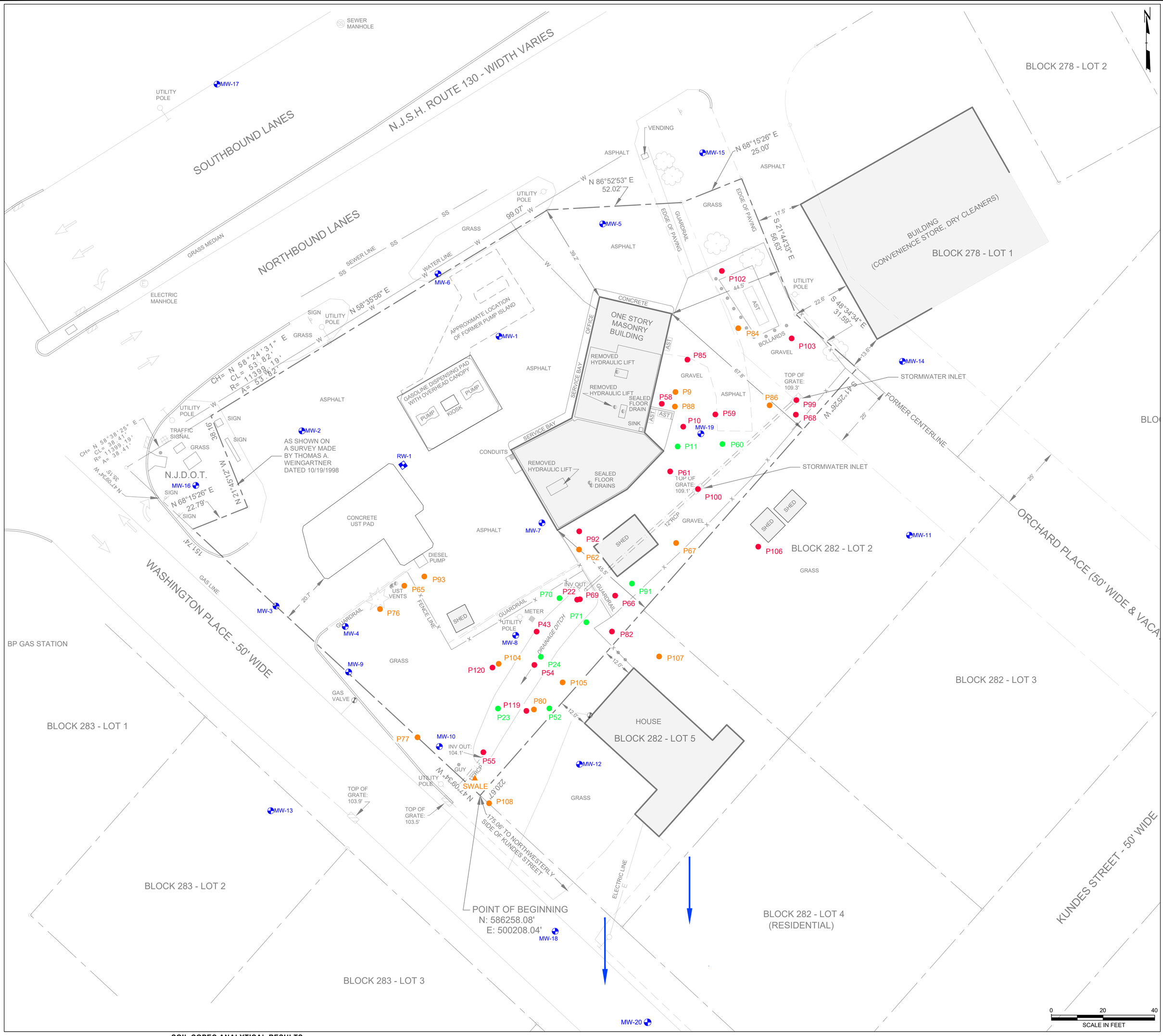
TITLE:
NJDEP GIS LANDSCAPE PROJECT MAP

DRAWN BY:	M. GIAMBATTISTA	PROJ. NO.:	325435
CHECKED BY:	E. O'CONNOR		
APPROVED BY:	W. CORDASCO		**FIGURE 5**
DATE:	MARCH 2019		

TRC
41 Spring Street
New Providence, NJ 07974
Phone: 908.988.1700
www.trcsolutions.com

FILE NO.: Landscape.mxd

24x36 --- USER: JNichols --- ATTACHED XREF'S: --- ATTACHED IMAGES: H9B14; H9B15;
DRAWING NAME: M:\Cad Files\Vision Projects\325435\ FIGURE 6 - EE SITE PLAN.dwg --- PLOT DATE: April 10, 2019 - 3:50PM --- LAYOUT: 24X36L



SOIL COPEC ANALYTICAL RESULTS

P9	
Field ID	P9: 0-1'
Sample Date	5/9/2017
Depth (ft)	0 - 1
EPH, Total Non-Fractionated (C09-C40)	2220

P10	
Field ID	P10:0-1'
Sample Date	5/9/2017
Depth (ft)	0 - 1
Cadmium	1.3
Chromium	90.7
Cobalt	18.3
Copper	133
Lead	241
Nickel	38.3
Vanadium	73.9
Zinc	872
EPH, Total Non-Fractionated (C09-C40)	6780
Benzo(a)anthracene	8.1
Benzo(a)pyrene	9.3
Chrysene	8.1
bis(2-Ethylhexyl)phthalate	1.1
Naphthalene	0.25
High Molecular Weight PAHs	78.4

P22	
Field ID	P22:0-6
Sample Date	5/8/2017
Depth (ft)	0 - 0.5
Cadmium	0.79
Chromium	28.8
Cobalt	6.1
Copper	40.8
Lead	54.4
Mercury	0.1
Nickel	16.5
Vanadium	26.3
Zinc	341
EPH, Total Non-Fractionated (C09-C40)	2730
High Molecular Weight PAHs	7.91

P43	
Field ID	P43:1'
Sample Date	4/27/2017
Depth (ft)	1 - 1
Lead	37.7
Benzene	6.2
Ethylbenzene	285
Xylenes (total)	2786
Naphthalene	152
Low Molecular Weight PAHs	157

P54		
Field ID	P54: 0-1/2'	P54: 1/2-1'
Sample Date	10/3/2017	10/3/2017
Depth (ft)	0 - 0.5	0.5 - 1
Cadmium	1.3	1.8
Chromium	19.9	27.2
Cobalt	ND	7.3
Copper	59.7	86.6
Lead	45.4	68.6
Mercury	0.87	0.13
Nickel	15.8	23.9
Vanadium	20.8	30
Zinc	135	269
Benzo(a)pyrene	ND	1.7
High Molecular Weight PAHs	ND	12.2

P55	
Field ID	P55: 0-4"
Sample Date	10/3/2017
Depth (ft)	0 - 0.33
Cadmium	0.87
Chromium	16
Cobalt	6.3
Copper	44.4
Lead	56.8
Mercury	0.091
Nickel	15.6
Vanadium	23.9
Zinc	184
High Molecular Weight PAHs	3.353

P58	
Field ID	P58:0-1/2'
Sample Date	10/4/2017
Depth (ft)	0 - 0.5
Lead	343
Acenaphthene	27.9
Benzo(a)anthracene	233
Benzo(a)pyrene	236
Benzo(b)fluoranthene	281
Benzo(ghi)perylene	167
Chrysene	249
Dibenz(a,h)anthracene	48.1
Fluoranthene	643
Indeno(1,2,3-cd)pyrene	136
Naphthalene	14.8
Phenanthrene	423
Pyrene	575
Low Molecular Weight PAHs	1104.1
High Molecular Weight PAHs	1995.4

P59	
Field ID	P59:0-1/2'
Sample Date	10/4/2017
Depth (ft)	0 - 0.5
Cadmium	0.55
Chromium	42.8
Cobalt	10.6
Copper	101
Lead	44.1
Nickel	26.9
Vanadium	53.2
Zinc	128
Benzo(a)anthracene	50.9
Benzo(a)pyrene	62.4
Benzo(b)fluoranthene	76.1
Chrysene	53.1
Fluoranthene	127
Naphthalene	0.63
Phenanthrene	51.8
Pyrene	101
Low Molecular Weight PAHs	197.91
High Molecular Weight PAHs	477.5

P61	
Field ID	P61:0-1/2'
Sample Date	10/4/2017
Depth (ft)	0 - 0.5
Chromium	52.2
Cobalt	12.4
Copper	126
Lead	79.9
Nickel	31.9
Vanadium	59.8
Zinc	109
Benzo(a)anthracene	8.4
Benzo(a)pyrene	9.4
Chrysene	9.3
Naphthalene	0.15
Low Molecular Weight PAHs	29.185
High Molecular Weight PAHs	91.7

P62	
Field ID	P62:0-1/2'
Sample Date	10/4/2017
Depth (ft)	0 - 0.5
Lead	13.7

P65	
Field ID	P65: 1'
Sample Date	10/3/2017
Depth (ft)	1 - 1
Lead	165

P66	
Field ID	P66:0-1/2'
Sample Date	10/4/2017
Depth (ft)	0 - 0.5
Cadmium	0.56
Chromium	41.8
Cobalt	15.2
Copper	78.8
Lead	33.8
Nickel	34.1
Vanadium	66.8
Zinc	139

P67	
Field ID	P67: 0- 1/2'
Sample Date	10/3/2017
Depth (ft)	0 - 0.5
Lead	35.6

P68	
Field ID	P68:0-1/2'
Sample Date	10/4/2017
Depth (ft)	0 - 0.5
Chromium	53.1
Cobalt	17.1
Copper	91
Lead	15.7
Nickel	36.4
Vanadium	74.7
Zinc	63.2

P69	
Field ID	P69: 1/2-1'
Sample Date	10/3/2017
Depth (ft)	0.5 - 1
Cadmium	1.1
Chromium	54.4
Cobalt	10
Copper	236
Lead	63.9
Nickel	27.9
Vanadium	39.2
Zinc	348
Mercury	0.14

P76	
Field ID	P76:0-1'
Sample Date	10/3/2017
Depth (ft)	0 - 1
Lead	31

P77	
Field ID	P77
Sample Date	2/21/2018
Depth (ft)	0 - 0.5
Lead	19.2

P80	
Field ID	P80:0-1/2'
Sample Date	2/20/2018
Depth (ft)	0 - 0.5
Mercury	0.064
High Molecular Weight PAHs	1.154

P82	
Field ID	P82:0-0.5'
Sample Date	2/20/2018
Depth (ft)	0 - 0.5
Chromium	21.8
Copper	27.5
Lead	40.4
Mercury	0.042
Vanadium	35.8
Zinc	54.9

P84	
Field ID	P84:0-1/2'
Sample Date	2/20/2018
Depth (ft)	0 - 0.5
Benzo(a)pyrene	1.6
High Molecular Weight PAHs	13.66

P85	
Field ID	P85:0-1/2'
Sample Date	2/20/2018
Depth (ft)	0 - 0.5
Barium	401
Chromium	58.6
Copper	21.3
Lead	24.7
Vanadium	36.2
Zinc	92.2
Benzo(a)pyrene	2.6
High Molecular Weight PAHs	15.71

P86	
Field ID	P86:0-1/2'
Sample Date	2/20/2018
Depth (ft)	0 - 0.5
Lead	25.7

P88	
Field ID	P88:0-1/2'
Sample Date	2/20/2018
Depth (ft)	0 - 0.5
Mercury	0.093

P92	
Field ID	P92:0-1/2'
Sample Date	2/20/2018
Depth (ft)	0 - 0.5
Chromium	63.6
Cobalt	18
Copper	273
Lead	16.7
Nickel	36.8
Vanadium	80
Zinc	77.9

P93	
Field ID	P93:1'
Sample Date	2/20/2018
Depth (ft)	1 - 1
Lead	85.8

P99	
Field ID	P99
Sample Date	2/21/2018
Depth (ft)	0 - 0.25
Cadmium	0.78
Chromium	56
Cobalt	9.6
Copper	48.2
Lead	17.5
Nickel	25.7
Vanadium	47.1
Zinc	82
High Molecular Weight PAHs	3.871

P100	
Field ID	P100
Sample Date	2/21/2018
Depth (ft)	0 - 0.25
Chromium	58.8
Copper	33.4
Lead	20.1
Nickel	13.9
Vanadium	49.6
Zinc	132
Benzo(a)pyrene	3.7
Naphthalene	0.12
High Molecular Weight PAHs	23.29

P102	
Field ID	P102: 0-1/2'
Sample Date	5/24/2018
Depth (ft)	0 - 0.5
Cadmium	1
Chromium	52.4
Cobalt	11.6
Copper	47.1
Lead	108
Mercury	0.074
Nickel	23.2
Vanadium	42.2
Zinc	337
Benzo(a)pyrene	2
High Molecular Weight PAHs	17.94

P103	
Field ID	P103: 0-1/2'
Sample Date	5/24/2018
Depth (ft)	0 - 0.5
Cadmium	0.75
Chromium	62.9
Cobalt	15.9
Copper	80.9
Lead	37.4
Nickel	38.2
Vanadium	69
Zinc	104
High Molecular Weight PAHs	5.82

P104	
Field ID	P104: 0-1/2'
Sample Date	5/24/2018
Depth (ft)	0 - 0.5
Mercury	0.089

P105	
Field ID	P105: 0-1/2'
Sample Date	5/24/2018
Depth (ft)	0 - 0.5
Zinc	79.1

P106	
Field ID	P106: 0-1/2'
Sample Date	5/24/2018
Depth (ft)	0 - 0.5
Chromium	12.7
Copper	17.9
Lead	57.3
Mercury	0.052
Vanadium	22.4
Zinc	60.7

P107	
Field ID	P107: 0-1/2'
Sample Date	5/24/2018
Depth (ft)	0 - 0.5
Mercury	0.046

P108	
Field ID	P108: 0-1/2'
Sample Date	5/24/2018
Depth (ft)	0 - 0.5
Lead	51.9

P119		
Field ID	P119: 0-1/2'	P119: 1/2-1'
Sample Date	9/13/2018	9/13/2018
Depth (ft)	0 - 0.5	0.5 - 1
Chromium	12.4	13
Copper	11.9	17.9
Lead	40	88.4
Vanadium	19.4	25.2
Zinc	30.7	46.4
High Molecular Weight PAHs	1.136	2.134

P120		
Field ID	P120: 0-1/2'	P120: 1/2-1'
Sample Date	9/13/2018	9/13/2018
Depth (ft)	0 - 0.5	0.5 - 1
Cadmium	0.67	ND
Chromium	24.8	18.8
Cobalt	8.7	ND
Copper	22.8	14.3
Lead	63.6	51.4
Mercury	0.09	NE
Nickel	21.1	NE
Vanadium	25.3	24
Zinc	160	93.1
High Molecular Weight PAHs	1.132	NE

GROUND WATER COPEC ANALYTICAL RESULTS

MW17		
Field ID	MW17	MW20 (DUP)
Sample Date	10/3/2018	10/3/2018
Barium	NE	223
Copper	12.7	13.8
Nickel	NE	14.2
Zinc	55.6	57.8

MW18				
Field ID	MW18	MW18	MW18 Filtered	MW20 (DUP)
Sample Date	10/3/2018	11/15/2018	11/15/2018	11/15/2018
Nickel	14.8	NE	NA	NA
Anthracene	1.4	1.3	ND	1.7
Benzo(a)anthrace	0.208	0.135	ND	0.121
Naphthalene	45.1	25.6	20.8	27.8
Phenanthrene	6.9	7	NE	8.9
Pyrene	1.2	0.91	ND	0.79

MW19	
Field ID	MW19
Sample Date	10/4/2018
Chromium	171
Copper	245
Lead	87
Vanadium	589
Zinc	798
Benzene	868
Ethylbenzene	1790
Toluene	1960
Xylenes (total)	8790
Naphthalene	448

MW20		
Field ID	MW20	MW21 (DUP)
Sample Date	1/18/2019	1/18/2019
Cobalt	83.3	78.9
Copper	63.3	57.5
Lead	10.2	NE
Nickel	132	125
Zinc	226	212

SURFACE WATER COPEC ANALYTICAL RESULTS

SWALE		
Field ID	SWAL	SWALE
Sample Date	1/15/2014	2/21/2014
bis(2Ethylhexyl)phthalate	1.1	NE
Benzo(a)anthracene	0.188	NE

LEGEND

- MONITORING WELL LOCATION
- SOIL SAMPLE: < LSSL AND <USSL (ESC)
- SOIL SAMPLE: > LSSL AND WHERE APPROPRIATE <USSL (ESC)
- SOIL SAMPLE: > LSSL AND >USSL (ESC)
- SURFACE WATER SAMPLE: > CHRONIC AND WHERE APPROPRIATE < ACUTE (ESC)
- GROUND WATER FLOW DIRECTION

SOIL ESC

Parameter	CAS Number	LSSL	USSL
Acenaphthene	83-32-9	20	–
Barium	7440-39-3	283	–
Benzene	71-43-2	0.255	–
Benzo(a)anthracene	56-55-3	5.21	–
Benzo(a)pyrene	50-32-8	1.52	–
Benzo(b)fluoranthene	205-99-2	59.8	–
Benzo(ghi)perylene	191-24-2	119	–
bis(2-Ethylhexyl)phthalate	117-81-7	0.925	–
Cadmium	7440-43-9	0.36	–
Chromium	7440-47-3	0.4	1
Chrysene	218-01-9	4.73	–
Cobalt	7440-48-4	0.14	–
Copper	7440-50-8	5.4	100
Dibenz(a,h)anthracene	53-70-3	18.4	–
EPH, Total Non-Fractionated (C09-C40)	SRP237	1700	4000
Ethylbenzene	100-41-4	5.16	–
Fluoranthene	206-44-0	122	–
High Molecular Weight PAHs	SRP420	1.1	18
Indeno(1,2,3-cd)pyrene	193-39-5	109	–
Lead	7439-92-1	0.0537	–
Low Molecular Weight PAHs	SRP419	29	100
Mercury	7439-97-6	0.00051	0.3
Naphthalene	91-20-3	0.0994	–
Nickel	7440-02-0	13.6	–
Phenanthrene	85-01-8	45.7	–
Pyrene	129-00-0	78.5	–
Vanadium	7440-62-2	2	–
Xylenes (total)	1330-20-7	10	–
Zinc	7440-66-6	6.62	160

Bold indicates concentrations above the LSSL
Highlight indicates concentrations above the USSL
All soil concentrations are in milligrams per kilogram (mg/kg)
NA = Not Analyzed
ND = Not Detected
NE = No Exceedance

SURFACE WATER ESC

Parameter	CAS Number	SWQS - Chronic	SWQS - Acute
Anthracene	120-12-7	0.035	–
Barium	7440-39-3	220	–
Benzene	71-43-2	114	–
Benzo(a)anthracene	56-55-3	0.025	–
bis(2-Ethylhexyl)phthalate	117-81-7	0.3	–
Chromium	7440-47-3	42	–
Cobalt	7440-48-4	24	–
Copper	7440-50-8	2.6	3.44
Ethylbenzene	100-41-4	14	–
Lead	7439-92-1	5.4	38
Naphthalene	91-20-3	13	–
Nickel	7440-02-0	13.7	122
Phenanthrene	85-01-8	3.6	–
Pyrene	129-00-0	0.3	–
Toluene	108-88-3	253	–
Vanadium	7440-62-2	12	–
Xylenes (total)	1330-20-7	27	–
Zinc	7440-66-6	35.2	35

Bold indicates concentrations above the SWQS - Chronic
Highlight indicates concentrations above the SWQS - Acute
All ground water and surface water concentrations are in micrograms per liter (ug/L)
NA = Not Analyzed
ND = Not Detected
NE = No Exceedance

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NJDEP) ECO CRITERIA/STANDARD NOTES:

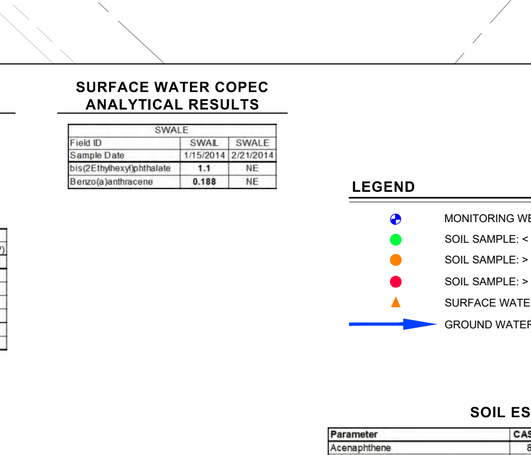
1. ESC = NJDEP'S ECOLOGICAL SCREENING CRITERIA (ESC TABLE - MARCH 2009)
2. LSSL = LOWER SOIL SCREENING LEVEL; OBTAINED FROM ESC TABLE
3. USSL = UPPER SOIL SCREENING LEVEL; OBTAINED FROM ESC TABLE
4. SWQS = SURFACE WATER QUALITY STANDARDS; OBTAINED FROM ESC TABLE (SWQS ARE ACTUAL STANDARDS)
5. ACUTE AND CHRONIC ESC - FRESH SURFACE WATER AQUATIC LIFE CRITERIA; OBTAINED FROM ESC TABLE
6. COPEC = CONTAMINANTS OF POTENTIAL ECOLOGICAL CONCERN

SOIL AND GROUNDWATER SAMPLE DATA

1. SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS SHOWN HEREON ARE ONLY FOR UNPAVED/UNBUILT AREAS UP TO 1-FOOT BELOW GROUND SURFACE.
2. GROUNDWATER ANALYTICAL RESULTS ARE INCLUDED ON MAPPING PROVIDED BY ON-SITE, INC. (APPENDIX A OF ECOLOGICAL EVALUATION REPORT).
3. GROUND WATER ANALYTICAL RESULTS WERE COMPARED TO SWQS.
4. ANALYTICAL RESULTS ARE ONLY SHOWN FOR CONCENTRATIONS ABOVE THE ESC.
5. WITH THE EXCEPTION OF CHROMIUM, COPPER, AND ZINC, METALS CONCENTRATIONS ARE WITHIN PUBLISHED CONCENTRATION RANGES OF METALS IN NEW JERSEY PIEDMONT SOILS.

SURVEY SOURCE:

1. SITE SURVEY OBTAINED FROM "BOUNDARY SURVEY - 0.7562773 ACRES, 1696 ROUTE 130, LLC, DEED BOOK 06846 - PAGE 0782, TAX BLOCK 282 - LOT 1, NORTH BRUNSWICK TOWNSHIP - MIDDLESEX COUNTY - NEW JERSEY", PREPARED BY JAMES M. STEWART, PLS (NJ PROFESSIONAL LICENSED SURVEYOR NO. 24GS02610800) OF DENNIS SKLAR, INC., DATED OCTOBER 26, 2018.
2. SITE SURVEY WAS PROVIDED TO TRC BY FRANK JASIULEWICZ, PG, LSRP OF ON-SITE ENVIRONMENTAL, INC.



PROJECT:
NORTH BRUNSWICK GULF STATION
1696 GEORGES ROAD
NORTH BRUNSWICK, MIDDLESEX COUNTY, NJ

TITLE:
ECOLOGICAL EVALUATION
SITE PLAN SHOWING SAMPLE LOCATIONS AND ANALYTICAL RESULTS

DRAWN BY:	M. GIAMBATTISTA	PROJ. NO.:	325435
CHECKED BY:	W. CORDASCO		
APPROVED BY:	W. CORDASCO		**FIGURE 6**
DATE:	FEBRUARY 2019		

TRC
41 Spring Street
Suite 102
New Providence, NJ 07974
Phone: 908.988.1700

FILE NO.: FIGURE 6 - EE SITE PLAN.dwg

TABLES

TABLE 1

Summary of Soil Analytical Results

TABLE 1-1

Summary of Volatile Organic Compounds (VOCs) in Soil

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P8:6'		P8:12'		P10:0-1'		P10:3'		P17:4'		P17:9'	
			Date Sampled:	5/8/2017		5/8/2017		5/9/2017		5/9/2017		4/28/2017		4/28/2017	
			Depth (ft):	6-6		12-12		0-1		3-3		4-4		9-9	
			LAB Sample ID:	JC42929-24		JC42929-25		JC42929-30R		JC42929-31R		JC42231-19		JC42231-20	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acetone	*67-64-1*	--	--	0.045		0.51	U	0.066		0.0047	U	0.53	U	0.55	U
Benzene	*71-43-2*	*0.255*	--	0.00045		0.25		0.00023	J	0.043		**2.7**		**1.8**	
Bromochloromethane	*74-97-5*	--	--	0.00029	U	0.032	U	0.00036	U	0.0003	U	0.034	U	0.035	U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.00014	U	0.015	U	0.00017	U	0.00014	U	0.016	U	0.017	U
Bromoform	*75-25-2*	*15.9*	--	0.00024	U	0.027	U	0.0003	U	0.00025	U	0.028	U	0.029	U
Bromomethane	*74-83-9*	*0.235*	--	0.00044	U	0.049	U	0.00054	U	0.00046	U	0.051	U	0.053	U
2-Butanone (MEK)	*78-93-3*	--	--	0.0039	J	0.18	U	0.0075	J	0.03		0.19	U	0.19	U
Carbon Disulfide	*75-15-0*	--	--	0.00021	J	0.017	U	0.00019	U	0.00029	J	0.018	U	0.019	U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.00015	U	0.017	U	0.00019	U	0.00016	U	0.018	U	0.018	U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.00015	U	0.016	U	0.00018	U	0.00015	U	0.017	U	0.018	U
Chloroethane	*75-00-3*	--	--	0.00039	U	0.044	U	0.00048	U	0.0004	U	0.045	U	0.047	U
Chloroform	*67-66-3*	*1.19*	--	0.00021	U	0.024	U	0.00027	U	0.00022	U	0.025	U	0.026	U
Chloromethane	*74-87-3*	--	--	0.00019	U	0.021	U	0.00024	U	0.0002	U	0.022	U	0.023	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.00039	U	0.045	U	0.00049	U	0.039		0.046	U	0.048	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.00018	U	0.020	U	0.00022	U	0.00018	U	0.021	U	0.021	U
Cyclohexane	*110-82-7*	--	--	0.003		0.056	U	0.00061	U	0.018		2.8		0.97	
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.00044	U	0.049	U	0.00054	U	0.00045	U	0.051	U	0.053	U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.00014	U	0.015	U	0.00017	U	0.00014	U	0.016	U	0.016	U
1,2-Dibromoethane	*106-93-4*	--	--	0.00022	U	0.025	U	0.00027	U	0.00023	U	0.026	U	0.026	U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.00015	U	0.017	U	0.00019	U	0.0014		0.018	U	0.019	U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.00012	U	0.014	U	0.00015	U	0.00022	J	0.014	U	0.015	U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.00014	U	0.016	U	0.00017	U	0.00079	J	0.016	U	0.017	U
Dichlorodifluoromethane	*75-71-8*	--	--	0.00049	U	0.055	U	0.00061	U	0.00051	U	0.058	U	0.060	U
1,1-Dichloroethane	*75-34-3*	--	--	0.00017	U	0.019	U	0.00021	U	0.0014		0.020	U	0.020	U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.00015	U	0.017	U	0.00019	U	0.00016	U	0.018	U	0.019	U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.00014	U	0.016	U	0.00017	U	0.00014	U	0.016	U	0.017	U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.00028	U	0.031	U	0.00035	U	0.00029	U	0.033	U	0.034	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND		ND		ND		ND		ND		ND	
Ethylbenzene	*100-41-4*	*5.16*	--	0.00013	U	2.4		0.00017	U	0.11		**55.3**		**10.8**	
2-Hexanone	*591-78-6*	--	--	0.003	J	0.14	U	0.0016	U	0.0013	U	0.15	U	0.15	U
Isopropylbenzene	*98-82-8*	--	--	0.00024	J	1.9		0.00017	U	0.016		9.1		1.7	
Methyl Acetate	*79-20-9*	--	--	0.0018	U	0.21	U	0.0023	U	0.0019	U	0.21	U	0.22	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P8:6'		P8:12'		P10:0-1'		P10:3'		P17:4'		P17:9'	
			Date Sampled:	5/8/2017		5/8/2017		5/9/2017		5/9/2017		4/28/2017		4/28/2017	
			Depth (ft):	6-6		12-12		0-1		3-3		4-4		9-9	
			LAB Sample ID:	JC42929-24		JC42929-25		JC42929-30R		JC42929-31R		JC42231-19		JC42231-20	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.00024	U	0.027	U	0.0003	U	0.0025		0.028	U	0.029	U
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.00077	U	0.086	U	0.0017	J	0.0008	U	0.090	U	0.093	U
Methylcyclohexane	*108-87-2*	--	--	0.0096		6.1		0.00057	U	0.06		14.4		3.5	
Methylene chloride	*75-09-2*	*4.05*	--	0.0012	J	0.10	U	0.0011	U	0.00094	U	0.11	U	0.11	U
Styrene	*100-42-5*	*4.69*	*300*	0.00013	U	0.015	U	0.00016	U	0.00014	U	0.015	U	0.016	U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.00022	U	0.024	U	0.00027	U	0.00022	U	0.025	U	0.026	U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.00025	U	0.029	U	0.00045	J	0.00029	J	0.030	U	0.031	U
Toluene	*108-88-3*	*200*	--	0.00021	J	0.39		0.00023	J	0.025		1.4		9.1	
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.00014	U	0.016	U	0.00018	U	0.00044	J	0.017	U	0.017	U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.00020	U	0.022	U	0.00025	U	0.00021	U	0.023	U	0.024	U
Freon 113	*76-13-1*	--	--	0.00044	U	0.049	U	0.00054	U	0.00045	U	0.051	U	0.053	U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.00045	U	0.051	U	0.00056	U	0.00047	U	0.053	U	0.055	U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.00015	U	0.017	U	0.00019	U	0.00016	U	0.018	U	0.018	U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.00029	U	0.033	U	0.00036	U	0.0003	U	0.034	U	0.035	U
Trichloroethene	*79-01-6*	*12.4*	--	0.00017	U	0.019	U	0.00021	U	0.00018	U	0.020	U	0.021	U
Trichlorofluoromethane	*75-69-4*	--	--	0.00057	U	0.064	U	0.00071	U	0.00059	U	0.066	U	0.069	U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.00045	U	0.051	U	0.00056	U	0.00047	U	0.053	U	0.055	U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.00018	U	0.021	U	0.00023	U	0.00019	U	0.021	U	0.022	U
m,p-Xylene	*179601-23-1*	--	--	0.0029		4.9		0.00065	J	0.37		310		48.1	
o-Xylene	*95-47-6*	--	--	0.00032	J	1.2		0.00084	J	0.043		6.4		20.2	
Xylenes (total)	*1330-20-7*	*10*	--	0.00322		6.1		0.00149		0.413		**316.4**		**68.3**	
Total VOC TIC	*SRP170*	--	--	0.062	J	68.6	J	0.037	J	0.37	J	40.1	J	33.9	J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P18:4-4 1/2'		P19:5'		P20:5'		P22:0-6		P28:3 1/2'		P30:6 1/2-7'	
			Date Sampled:	5/9/2017		5/8/2017		5/8/2017		5/8/2017		5/9/2017		5/9/2017	
			Depth (ft):	4-4.5		5-5		5-5		0-0.5		3.5-3.5		6.5-7	
			LAB Sample ID:	JC42929-34R		JC42929-13R		JC42929-22R		JC42929-49R		JC42929-47		JC42929-36	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acetone	*67-64-1*	--	--	0.52	U	0.034		0.007	J	0.054		0.045		0.031	
Benzene	*71-43-2*	*0.255*	--	0.013	U	0.00012	U	0.00012	U	0.00047	U	0.00012	U	0.01	
Bromochloromethane	*74-97-5*	--	--	0.033	U	0.00032	U	0.00032	U	0.0013	U	0.00031	U	0.00029	U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.016	U	0.00015	U	0.00015	U	0.0006	U	0.00015	U	0.00014	U
Bromoform	*75-25-2*	*15.9*	--	0.028	U	0.00026	U	0.00027	U	0.001	U	0.00026	U	0.00024	U
Bromomethane	*74-83-9*	*0.235*	--	0.051	U	0.00048	U	0.00049	U	0.0019	U	0.00047	U	0.00044	U
2-Butanone (MEK)	*78-93-3*	--	--	0.18	U	0.0049	J	0.0018	U	0.0069	U	0.0017	U	0.0016	U
Carbon Disulfide	*75-15-0*	--	--	0.018	U	0.00017	U	0.00017	U	0.00067	U	0.00072	J	0.00015	U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.017	U	0.00016	U	0.00017	U	0.00065	U	0.00016	U	0.00015	U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.017	U	0.00016	U	0.00016	U	0.00064	U	0.00016	U	0.00015	U
Chloroethane	*75-00-3*	--	--	0.045	U	0.00042	U	0.00043	U	0.0017	U	0.00042	U	0.00039	U
Chloroform	*67-66-3*	*1.19*	--	0.025	U	0.00024	U	0.00024	U	0.0055	J	0.00023	U	0.00022	U
Chloromethane	*74-87-3*	--	--	0.022	U	0.00021	U	0.00021	U	0.00083	U	0.00021	U	0.00019	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.046	U	0.00043	U	0.00044	U	0.0017	U	0.00043	U	0.00040	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.021	U	0.00019	U	0.0002	U	0.00077	U	0.00019	U	0.00018	U
Cyclohexane	*110-82-7*	--	--	0.057	U	0.00054	U	0.00055	U	0.0022	U	0.00053	U	0.00049	U
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.051	U	0.00048	U	0.00049	U	0.0019	U	0.00047	U	0.00044	U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.016	U	0.00015	U	0.00015	U	0.00059	U	0.00015	U	0.00014	U
1,2-Dibromoethane	*106-93-4*	--	--	0.025	U	0.00024	U	0.00024	U	0.00095	U	0.00024	U	0.00022	U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.018	U	0.00017	U	0.00017	U	0.00067	U	0.00017	U	0.00015	U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.014	U	0.00014	U	0.00014	U	0.00054	U	0.00013	U	0.00012	U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.016	U	0.00015	U	0.00015	U	0.0006	U	0.00015	U	0.00014	U
Dichlorodifluoromethane	*75-71-8*	--	--	0.057	U	0.00054	U	0.00055	U	0.0022	U	0.00053	U	0.00049	U
1,1-Dichloroethane	*75-34-3*	--	--	0.02	U	0.00019	U	0.00019	U	0.00074	U	0.00018	U	0.00017	U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.018	U	0.00017	U	0.00017	U	0.00067	U	0.00017	U	0.00015	U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.016	U	0.00015	U	0.00015	U	0.0006	U	0.00015	U	0.00014	U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.032	U	0.00031	U	0.00031	U	0.0012	U	0.00030	U	0.00028	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND		ND		ND		ND		ND		ND	
Ethylbenzene	*100-41-4*	*5.16*	--	1.1		0.00015	U	0.00015	U	0.00099	J	0.00015	U	0.026	
2-Hexanone	*591-78-6*	--	--	0.15	U	0.0014	U	0.0014	U	0.0055	U	0.0014	U	0.0013	U
Isopropylbenzene	*98-82-8*	--	--	0.38		0.00021	J	0.00025	J	0.00061	U	0.00015	U	0.0038	
Methyl Acetate	*79-20-9*	--	--	0.34	J	0.002	U	0.002	U	0.008	U	0.0020	U	0.0018	U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.028	U	0.00026	U	0.00027	U	0.001	U	0.00026	U	0.00087	J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P18:4-4 1/2'		P19:5'		P20:5'		P22:0-6		P28:3 1/2'		P30:6 1/2-7'	
			Date Sampled:	5/9/2017		5/8/2017		5/8/2017		5/8/2017		5/9/2017		5/9/2017	
			Depth (ft):	4-4.5		5-5		5-5		0-0.5		3.5-3.5		6.5-7	
			LAB Sample ID:	JC42929-34R		JC42929-13R		JC42929-22R		JC42929-49R		JC42929-47		JC42929-36	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.089	U	0.00084	U	0.00086	U	0.0033	U	0.00083	U	0.00077	U
Methylcyclohexane	*108-87-2*	--	--	0.053	U	0.0005	U	0.00051	U	0.002	U	0.00049	U	0.0012	J
Methylene chloride	*75-09-2*	*4.05*	--	0.1	U	0.00099	U	0.001	U	0.0039	U	0.00098	U	0.00091	U
Styrene	*100-42-5*	*4.69*	*300*	0.015	U	0.00014	U	0.00015	U	0.00057	U	0.00014	U	0.00013	U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.025	U	0.00024	U	0.00024	U	0.00094	U	0.00023	U	0.00022	U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.029	U	0.00028	U	0.00028	U	0.0011	U	0.00027	U	0.00025	U
Toluene	*108-88-3*	*200*	--	0.036	J	0.00022	J	0.00013	U	0.00049	U	0.00019	J	0.00019	J
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.017	U	0.00016	U	0.00016	U	0.00062	U	0.00015	U	0.00014	U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.023	U	0.00022	U	0.00022	U	0.00087	U	0.00022	U	0.00020	U
Freon 113	*76-13-1*	--	--	0.051	U	0.00048	U	0.00049	U	0.0019	U	0.00047	U	0.00044	U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.052	U	0.00049	U	0.0005	U	0.002	U	0.00049	U	0.00045	U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.017	U	0.00017	U	0.00017	U	0.00066	U	0.00016	U	0.00015	U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.034	U	0.00032	U	0.00033	U	0.0013	U	0.00032	U	0.00029	U
Trichloroethene	*79-01-6*	*12.4*	--	0.02	U	0.00019	U	0.00019	U	0.00075	U	0.00019	U	0.00017	U
Trichlorofluoromethane	*75-69-4*	--	--	0.066	U	0.00062	U	0.00063	U	0.0025	U	0.00061	U	0.00057	U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.052	U	0.00049	U	0.0005	U	0.002	U	0.00049	U	0.00045	U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.021	U	0.0002	U	0.0002	U	0.0008	U	0.00020	U	0.00018	U
m,p-Xylene	*179601-23-1*	--	--	2.3		0.00049	J	0.00022	U	0.0033	J	0.00021	U	0.0023	
o-Xylene	*95-47-6*	--	--	0.9		0.0002	U	0.0002	U	0.0008	U	0.00020	U	0.00018	U
Xylenes (total)	*1330-20-7*	*10*	--	3.2		0.00049	J	0.0002	U	0.0033	J	0.00020	U	0.0023	
Total VOC TIC	*SRP170*	--	--	52.8	J	ND		ND		ND		ND		0.24	J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P30:8'	P30:17-18'	P30:21'	P31:6 1/2'	P31:9'	P32:4 1/2'
			Date Sampled:	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	4/28/2017
			Depth (ft):	8-8	17-18	21-21	6.5-6.5	9-9	4.5-4.5
			LAB Sample ID:	JC42929-37	JC42929-38	JC42929-39	JC42929-41	JC42929-42	JC42231-7
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acetone	*67-64-1*	--	--	0.56 U	0.061	0.093	0.019	0.71 U	0.0098
Benzene	*71-43-2*	*0.255*	--	**2.3**	0.16	0.033	0.00011 U	0.017 U	0.000095 U
Bromochloromethane	*74-97-5*	--	--	0.035 U	0.00038 U	0.00036 U	0.00028 U	0.045 U	0.00025 U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.017 U	0.00018 U	0.00017 U	0.00013 U	0.022 U	0.00012 U
Bromoform	*75-25-2*	*15.9*	--	0.030 U	0.00032 U	0.00030 U	0.00023 U	0.038 U	0.00021 U
Bromomethane	*74-83-9*	*0.235*	--	0.054 U	0.00058 U	0.00055 U	0.00043 U	0.069 U	0.00038 U
2-Butanone (MEK)	*78-93-3*	--	--	0.20 U	0.026	0.044	0.0015 U	0.25 U	0.0014 U
Carbon Disulfide	*75-15-0*	--	--	0.019 U	0.00020 U	0.00019 U	0.00015 U	0.024 U	0.00013 U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.018 U	0.00020 U	0.00019 U	0.00015 U	0.024 U	0.00013 U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.018 U	0.00019 U	0.00018 U	0.00014 U	0.023 U	0.00013 U
Chloroethane	*75-00-3*	--	--	0.048 U	0.00051 U	0.00049 U	0.00038 U	0.061 U	0.00034 U
Chloroform	*67-66-3*	*1.19*	--	0.026 U	0.00028 U	0.00027 U	0.00021 U	0.034 U	0.00019 U
Chloromethane	*74-87-3*	--	--	0.023 U	0.00025 U	0.00024 U	0.00019 U	0.030 U	0.00017 U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.049 U	0.00052 U	0.00050 U	0.00039 U	0.062 U	0.00035 U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.022 U	0.00023 U	0.00022 U	0.00017 U	0.028 U	0.00016 U
Cyclohexane	*110-82-7*	--	--	2.5	0.003	0.0043	0.00048 U	0.078 U	0.00043 U
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.054 U	0.00058 U	0.00055 U	0.00043 U	0.069 U	0.00038 U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.017 U	0.00018 U	0.00017 U	0.00013 U	0.021 U	0.00012 U
1,2-Dibromoethane	*106-93-4*	--	--	0.027 U	0.00029 U	0.00027 U	0.00021 U	0.034 U	0.00019 U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.019 U	0.00020 U	0.00019 U	0.00015 U	0.024 U	0.00014 U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.015 U	0.00016 U	0.00016 U	0.00012 U	0.019 U	0.00011 U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.017 U	0.00018 U	0.00017 U	0.00013 U	0.022 U	0.00012 U
Dichlorodifluoromethane	*75-71-8*	--	--	0.061 U	0.00065 U	0.00062 U	0.00048 U	0.078 U	0.00043 U
1,1-Dichloroethane	*75-34-3*	--	--	0.021 U	0.00022 U	0.00021 U	0.00016 U	0.027 U	0.00015 U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.019 U	0.00020 U	0.00019 U	0.00015 U	0.024 U	0.00014 U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.017 U	0.00018 U	0.00017 U	0.00013 U	0.022 U	0.00012 U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.034 U	0.00037 U	0.00035 U	0.00027 U	0.044 U	0.00024 U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND	ND	ND	ND	ND	ND
Ethylbenzene	*100-41-4*	*5.16*	--	**24.1**	0.00029 J	0.00017 U	0.0011	0.21	0.00012 U
2-Hexanone	*591-78-6*	--	--	0.15 U	0.0017 U	0.0016 U	0.0012 U	0.20 U	0.0011 U
Isopropylbenzene	*98-82-8*	--	--	5.7	0.00038 J	0.00017 U	0.0031	0.052 J	0.00012 U
Methyl Acetate	*79-20-9*	--	--	0.23 U	0.0024 U	0.0023 U	0.0018 U	0.29 U	0.0016 U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.029 U	0.0068	0.0011	0.00023 U	0.038 U	0.00021 U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P30:8'	P30:17-18'	P30:21'	P31:6 1/2'	P31:9'	P32:4 1/2'
			Date Sampled:	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	4/28/2017
			Depth (ft):	8-8	17-18	21-21	6.5-6.5	9-9	4.5-4.5
			LAB Sample ID:	JC42929-37	JC42929-38	JC42929-39	JC42929-41	JC42929-42	JC42231-7
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.094 U	0.0010 U	0.00096 U	0.00075 U	0.12 U	0.00067 U
Methylcyclohexane	*108-87-2*	--	--	12	0.00089 J	0.00057 U	0.0068	0.092 J	0.00040 U
Methylene chloride	*75-09-2*	*4.05*	--	0.11 U	0.0012 U	0.0011 U	0.00088 U	0.14 U	0.00079 U
Styrene	*100-42-5*	*4.69*	*300*	0.016 U	0.00017 U	0.00016 U	0.00013 U	0.021 U	0.00011 U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.027 U	0.00029 U	0.00027 U	0.00021 U	0.034 U	0.00019 U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.031 U	0.00034 U	0.00032 U	0.00025 U	0.040 U	0.00022 U
Toluene	*108-88-3*	*200*	--	9.2	0.00015 U	0.00014 U	0.00039 J	0.23	0.000099 U
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.018 U	0.00019 U	0.00018 U	0.00014 U	0.022 U	0.00013 U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.025 U	0.00026 U	0.00025 U	0.00019 U	0.031 U	0.00018 U
Freon 113	*76-13-1*	--	--	0.054 U	0.00058 U	0.00055 U	0.00043 U	0.069 U	0.00038 U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.056 U	0.00060 U	0.00057 U	0.00044 U	0.071 U	0.00040 U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.019 U	0.00020 U	0.00019 U	0.00015 U	0.024 U	0.00013 U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.036 U	0.00039 U	0.00037 U	0.00028 U	0.046 U	0.00026 U
Trichloroethene	*79-01-6*	*12.4*	--	0.021 U	0.00023 U	0.00022 U	0.00017 U	0.027 U	0.00015 U
Trichlorofluoromethane	*75-69-4*	--	--	0.070 U	0.00075 U	0.00071 U	0.00055 U	0.090 U	0.00050 U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.056 U	0.00060 U	0.00057 U	0.00044 U	0.071 U	0.00040 U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.022 U	0.00024 U	0.00023 U	0.00018 U	0.029 U	0.00016 U
m,p-Xylene	*179601-23-1*	--	--	108	0.0009 J	0.00049 J	0.014	2.3	0.00017 U
o-Xylene	*95-47-6*	--	--	29	0.00031 J	0.00023 U	0.031	1.1	0.00016 U
Xylenes (total)	*1330-20-7*	*10*	--	**137**	0.00121	0.00049 J	0.045	3.4	0.00016 U
Total VOC TIC	*SRP170*	--	--	70.4 J	0.26 J	0.12 J	0.39 J	13.1 J	ND

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P32:15'	P33:4 1/2'	P33:15'	P34:16'	P35:5 1/2-6'	P35:7-7 1/2'
			Date Sampled:	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017
			Depth (ft):	15-15	4.5-4.5	16-16	16-16	5.5-6	7-7.5
			LAB Sample ID:	JC42231-8	JC42231-14	JC42231-15	JC42231-13	JC42231-11	JC42231-12
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acetone	*67-64-1*	--	--	0.012	0.011 J	0.08	0.073	0.0045 U	0.047
Benzene	*71-43-2*	*0.255*	--	0.00010 U	0.00014 U	0.0012	0.0022	0.1	0.05
Bromochloromethane	*74-97-5*	--	--	0.00027 U	0.00037 U	0.00033 U	0.00027 U	0.00029 U	0.00028 U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.00013 U	0.00018 U	0.00016 U	0.00013 U	0.00014 U	0.00013 U
Bromoform	*75-25-2*	*15.9*	--	0.00023 U	0.00031 U	0.00027 U	0.00023 U	0.00024 U	0.00023 U
Bromomethane	*74-83-9*	*0.235*	--	0.00041 U	0.00056 U	0.00050 U	0.00041 U	0.00044 U	0.00042 U
2-Butanone (MEK)	*78-93-3*	--	--	0.0015 U	0.0020 U	0.01	0.0095	0.0016 U	0.015
Carbon Disulfide	*75-15-0*	--	--	0.00014 U	0.00020 U	0.0062	0.0043	0.00033 J	0.00022 J
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.00014 U	0.00019 U	0.00017 U	0.00014 U	0.00015 U	0.00014 U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.00014 U	0.00019 U	0.00017 U	0.00014 U	0.00015 U	0.00014 U
Chloroethane	*75-00-3*	--	--	0.00036 U	0.00049 U	0.00044 U	0.00036 U	0.00039 U	0.00037 U
Chloroform	*67-66-3*	*1.19*	--	0.00020 U	0.00027 U	0.00024 U	0.00020 U	0.00022 U	0.00021 U
Chloromethane	*74-87-3*	--	--	0.00018 U	0.00024 U	0.00022 U	0.00018 U	0.00019 U	0.00018 U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.00037 U	0.00050 U	0.00045 U	0.00037 U	0.00040 U	0.00038 U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.00017 U	0.00023 U	0.00020 U	0.00017 U	0.00018 U	0.00017 U
Cyclohexane	*110-82-7*	--	--	0.00046 U	0.00063 U	0.00056 U	0.00051 J	0.014	0.012
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.00041 U	0.00056 U	0.00050 U	0.00041 U	0.00044 U	0.00042 U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.00013 U	0.00017 U	0.00015 U	0.00013 U	0.00014 U	0.00013 U
1,2-Dibromoethane	*106-93-4*	--	--	0.00021 U	0.00028 U	0.00025 U	0.00021 U	0.00022 U	0.00021 U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.00015 U	0.00020 U	0.00018 U	0.00015 U	0.00016 U	0.00015 U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.00012 U	0.00016 U	0.00014 U	0.00012 U	0.00012 U	0.00012 U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.00013 U	0.00018 U	0.00016 U	0.00013 U	0.00014 U	0.00013 U
Dichlorodifluoromethane	*75-71-8*	--	--	0.00046 U	0.00063 U	0.00056 U	0.00046 U	0.00050 U	0.00048 U
1,1-Dichloroethane	*75-34-3*	--	--	0.00016 U	0.00022 U	0.00019 U	0.00016 U	0.00017 U	0.00016 U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.00015 U	0.00020 U	0.00018 U	0.00015 U	0.00016 U	0.00015 U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.00013 U	0.00018 U	0.00016 U	0.00013 U	0.00014 U	0.00013 U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.00026 U	0.00036 U	0.00032 U	0.00026 U	0.00028 U	0.00027 U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND	ND	ND	ND	ND	ND
Ethylbenzene	*100-41-4*	*5.16*	--	0.00013 U	0.00017 U	0.00015 U	0.0012	0.18	0.12
2-Hexanone	*591-78-6*	--	--	0.0012 U	0.0016 U	0.0014 U	0.0012 U	0.0013 U	0.0012 U
Isopropylbenzene	*98-82-8*	--	--	0.00052 J	0.00018 U	0.0022	0.0015 J	0.021	0.021
Methyl Acetate	*79-20-9*	--	--	0.0017 U	0.0023 U	0.0021 U	0.0017 U	0.0018 U	0.0018 U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.005	0.0008 J	0.55	0.46	0.04	0.046

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P32:15'		P33:4 1/2'		P33:15'		P34:16'		P35:5 1/2-6'		P35:7-7 1/2'	
			Date Sampled:	4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/28/2017	
			Depth (ft):	15-15		4.5-4.5		16-16		16-16		5.5-6		7-7.5	
			LAB Sample ID:	JC42231-8		JC42231-14		JC42231-15		JC42231-13		JC42231-11		JC42231-12	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.00072	U	0.00098	U	0.00087	U	0.00072	U	0.00077	U	0.00074	U
Methylcyclohexane	*108-87-2*	--	--	0.00043	U	0.00058	U	0.00052	U	0.00071	J	0.032		0.039	
Methylene chloride	*75-09-2*	*4.05*	--	0.00085	U	0.0012	U	0.0010	U	0.00085	U	0.00091	U	0.00087	U
Styrene	*100-42-5*	*4.69*	*300*	0.00012	U	0.00017	U	0.00015	U	0.00012	U	0.00013	U	0.00013	U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.00020	U	0.00028	U	0.00025	U	0.00020	U	0.00022	U	0.00021	U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.00024	U	0.00032	U	0.00029	U	0.00024	U	0.00026	U	0.00025	U
Toluene	*108-88-3*	*200*	--	0.00011	U	0.00014	U	0.00013	U	0.00011	U	0.077		0.024	
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.00013	U	0.00018	U	0.00016	U	0.00013	U	0.00014	U	0.00014	U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.00019	U	0.00025	U	0.00023	U	0.00019	U	0.00020	U	0.00019	U
Freon 113	*76-13-1*	--	--	0.00041	U	0.00056	U	0.00050	U	0.00041	U	0.00044	U	0.00042	U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.00042	U	0.00058	U	0.00051	U	0.00042	U	0.00045	U	0.00044	U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.00014	U	0.00019	U	0.00017	U	0.00014	U	0.00015	U	0.00015	U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.00027	U	0.00037	U	0.00033	U	0.00027	U	0.00029	U	0.00028	U
Trichloroethene	*79-01-6*	*12.4*	--	0.00016	U	0.00022	U	0.00020	U	0.00016	U	0.00017	U	0.00017	U
Trichlorofluoromethane	*75-69-4*	--	--	0.00053	U	0.00072	U	0.00065	U	0.00053	U	0.00057	U	0.00055	U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.00042	U	0.00058	U	0.00051	U	0.00042	U	0.00045	U	0.00044	U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.00017	U	0.00023	U	0.00021	U	0.00017	U	0.00018	U	0.00018	U
m,p-Xylene	*179601-23-1*	--	--	0.00019	U	0.00033	J	0.00022	U	0.00019	U	0.9		0.24	
o-Xylene	*95-47-6*	--	--	0.00017	U	0.00023	U	0.00021	U	0.00049	J	0.36		0.1	
Xylenes (total)	*1330-20-7*	*10*	--	0.00017	J	0.00033	J	0.00021	U	0.00049	J	1.26		0.34	
Total VOC TIC	*SRP170*	--	--	ND		ND		0.033	J	0.04	J	0.36	J	0.48	J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P36:6'		P36:12'		P37:3'		P37:7'		P38:3'		P38:8'	
			Date Sampled:	4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/28/2017	
			Depth (ft):	6-6		12-12		3-3		7-7		3-3		8-8	
			LAB Sample ID:	JC42231-9		JC42231-10		JC42231-1		JC42231-2		JC42231-3		JC42231-4	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acetone	*67-64-1*	--	--	0.0046	U	0.0055	U	0.086		0.013		0.51	U	0.54	U
Benzene	*71-43-2*	*0.255*	--	0.0018		0.00013	U	0.016		0.00077		0.12		**0.58**	
Bromochloromethane	*74-97-5*	--	--	0.00029	U	0.00035	U	0.00032	U	0.00027	U	0.032	U	0.035	U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.00014	U	0.00017	U	0.00015	U	0.00013	U	0.015	U	0.016	U
Bromoform	*75-25-2*	*15.9*	--	0.00024	U	0.00029	U	0.00026	U	0.00023	U	0.027	U	0.029	U
Bromomethane	*74-83-9*	*0.235*	--	0.00044	U	0.00054	U	0.00048	U	0.00041	U	0.049	U	0.053	U
2-Butanone (MEK)	*78-93-3*	--	--	0.0016	U	0.0020	U	0.0093	J	0.0015	U	0.18	U	0.19	U
Carbon Disulfide	*75-15-0*	--	--	0.00051	J	0.00019	U	0.00024	J	0.00014	U	0.017	U	0.018	U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.00015	U	0.00018	U	0.00016	U	0.00014	U	0.017	U	0.018	U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.00015	U	0.00018	U	0.00016	U	0.00014	U	0.016	U	0.018	U
Chloroethane	*75-00-3*	--	--	0.00039	U	0.00048	U	0.00043	U	0.00037	U	0.044	U	0.046	U
Chloroform	*67-66-3*	*1.19*	--	0.00022	U	0.00026	U	0.00024	U	0.00020	U	0.024	U	0.026	U
Chloromethane	*74-87-3*	--	--	0.00019	U	0.00023	U	0.00021	U	0.00018	U	0.021	U	0.023	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.00040	U	0.00049	U	0.00043	U	0.00037	U	0.044	U	0.047	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.00018	U	0.00022	U	0.00019	U	0.00017	U	0.020	U	0.021	U
Cyclohexane	*110-82-7*	--	--	0.0098		0.00061	U	0.016		0.00046	U	0.082	J	0.62	
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.00044	U	0.00054	U	0.00048	U	0.00041	U	0.049	U	0.052	U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.00014	U	0.00017	U	0.00015	U	0.00013	U	0.015	U	0.016	U
1,2-Dibromoethane	*106-93-4*	--	--	0.00022	U	0.00027	U	0.00024	U	0.00021	U	0.025	U	0.026	U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.00016	U	0.00019	U	0.00017	U	0.00015	U	0.017	U	0.019	U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.00013	U	0.00015	U	0.00014	U	0.00012	U	0.014	U	0.015	U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.00014	U	0.00017	U	0.00015	U	0.00013	U	0.016	U	0.017	U
Dichlorodifluoromethane	*75-71-8*	--	--	0.00050	U	0.00060	U	0.00054	U	0.00046	U	0.055	U	0.059	U
1,1-Dichloroethane	*75-34-3*	--	--	0.00017	U	0.00021	U	0.00019	U	0.00016	U	0.019	U	0.020	U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.00016	U	0.00032	J	0.00017	U	0.00015	U	0.017	U	0.019	U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.00014	U	0.00017	U	0.00015	U	0.00013	U	0.016	U	0.017	U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.00028	U	0.00034	U	0.00031	U	0.00026	U	0.031	U	0.033	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND		ND		ND		ND		ND		ND	
Ethylbenzene	*100-41-4*	*5.16*	--	0.00041	J	0.00017	U	0.031		0.00027	J	0.5		3.6	
2-Hexanone	*591-78-6*	--	--	0.0013	U	0.0015	U	0.0014	U	0.0012	U	0.14	U	0.15	U
Isopropylbenzene	*98-82-8*	--	--	0.0045		0.00017	U	0.042		0.00064	J	0.28		2.2	
Methyl Acetate	*79-20-9*	--	--	0.0019	U	0.0023	U	0.0020	U	0.0017	U	0.21	U	0.22	U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.002		0.051		0.0026		0.00046	J	0.027	U	0.029	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P36:6'	P36:12'	P37:3'	P37:7'	P38:3'	P38:8'
			Date Sampled:	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017
			Depth (ft):	6-6	12-12	3-3	7-7	3-3	8-8
			LAB Sample ID:	JC42231-9	JC42231-10	JC42231-1	JC42231-2	JC42231-3	JC42231-4
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.00078 U	0.00094 U	0.00084 U	0.00072 U	0.086 U	0.092 U
Methylcyclohexane	*108-87-2*	--	--	0.047	0.00056 U	0.099	0.00065 J	0.43	3.1
Methylene chloride	*75-09-2*	*4.05*	--	0.00091 U	0.0011 U	0.00099 U	0.00085 U	0.10 U	0.11 U
Styrene	*100-42-5*	*4.69*	*300*	0.00013 U	0.00016 U	0.00014 U	0.00012 U	0.015 U	0.016 U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.00022 U	0.00026 U	0.00024 U	0.00020 U	0.024 U	0.026 U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.00026 U	0.00031 U	0.00028 U	0.00024 U	0.029 U	0.030 U
Toluene	*108-88-3*	*200*	--	0.00011 U	0.00014 U	0.0015	0.00011 U	0.028 J	0.068 J
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.00014 U	0.00018 U	0.00016 U	0.00013 U	0.016 U	0.017 U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.00020 U	0.00025 U	0.00022 U	0.00019 U	0.022 U	0.024 U
Freon 113	*76-13-1*	--	--	0.00044 U	0.00054 U	0.00048 U	0.00041 U	0.049 U	0.052 U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.00046 U	0.00055 U	0.00050 U	0.00043 U	0.051 U	0.054 U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.00015 U	0.00019 U	0.00017 U	0.00014 U	0.017 U	0.018 U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.00030 U	0.00036 U	0.00032 U	0.00027 U	0.033 U	0.035 U
Trichloroethene	*79-01-6*	*12.4*	--	0.00017 U	0.00021 U	0.00019 U	0.00016 U	0.019 U	0.021 U
Trichlorofluoromethane	*75-69-4*	--	--	0.00057 U	0.00070 U	0.00062 U	0.00054 U	0.064 U	0.068 U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.00046 U	0.00055 U	0.00050 U	0.00043 U	0.051 U	0.054 U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.00018 U	0.00022 U	0.00020 U	0.00017 U	0.021 U	0.022 U
m,p-Xylene	*179601-23-1*	--	--	0.00052 J	0.00024 U	0.012	0.00028 J	0.21	2.1
o-Xylene	*95-47-6*	--	--	0.00019 J	0.00022 U	0.0031	0.00017 U	0.021 U	0.056 J
Xylenes (total)	*1330-20-7*	*10*	--	0.00071 J	0.00022 U	0.0151	0.00028 J	0.21	2.156
Total VOC TIC	*SRP170*	--	--	0.59 J	0.01 J	1.2 J	0.0063 J	11 J	36.8 J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P38:13'		P38:18'		P39:15'		P40:6'		P40:15'		P41:5'	
			Date Sampled:	4/28/2017		4/28/2017		4/27/2017		5/8/2017		5/8/2017		5/8/2017	
			Depth (ft):	13-13		18-18		15-15		6-6		15-15		5-5	
			LAB Sample ID:	JC42231-5		JC42231-6		JC42109-10		JC42929-15		JC42929-16		JC42929-17	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acetone	*67-64-1*	--	--	0.52	U	0.067		0.011		0.0048	U	0.045		0.051	
Benzene	*71-43-2*	*0.255*	--	**1.9**		**1.1**		0.009		0.0011		**0.94**		0.016	
Bromochloromethane	*74-97-5*	--	--	0.033	U	0.00028	U	0.00027	U	0.00030	U	0.00031	U	0.00027	U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.016	U	0.00013	U	0.00013	U	0.00014	U	0.00015	U	0.00013	U
Bromoform	*75-25-2*	*15.9*	--	0.028	U	0.00024	U	0.00022	U	0.00025	U	0.00026	U	0.00023	U
Bromomethane	*74-83-9*	*0.235*	--	0.051	U	0.00043	U	0.00041	U	0.00046	U	0.00047	U	0.00041	U
2-Butanone (MEK)	*78-93-3*	--	--	0.18	U	0.021		0.0015	U	0.0017	U	0.022		0.006	J
Carbon Disulfide	*75-15-0*	--	--	0.018	U	0.0049		0.00021	J	0.00016	U	0.00017	U	0.00015	U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.017	U	0.00015	U	0.00014	U	0.00016	U	0.00016	U	0.00014	U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.017	U	0.00014	U	0.00014	U	0.00015	U	0.00016	U	0.00014	U
Chloroethane	*75-00-3*	--	--	0.045	U	0.00038	U	0.00036	U	0.00041	U	0.00042	U	0.00037	U
Chloroform	*67-66-3*	*1.19*	--	0.025	U	0.00021	U	0.00020	U	0.00023	U	0.00023	U	0.00020	U
Chloromethane	*74-87-3*	--	--	0.022	U	0.00019	U	0.00018	U	0.00020	U	0.00021	U	0.00018	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.046	U	0.00039	U	0.00037	U	0.00042	U	0.00043	U	0.00037	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.021	U	0.00017	U	0.00016	U	0.00019	U	0.00019	U	0.00017	U
Cyclohexane	*110-82-7*	--	--	3.9		0.0048		0.00046	U	0.00052	U	0.0042		0.004	
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.051	U	0.00043	U	0.00040	U	0.00046	U	0.00047	U	0.00041	U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.016	U	0.00013	U	0.00013	U	0.00014	U	0.00015	U	0.00013	U
1,2-Dibromoethane	*106-93-4*	--	--	0.025	U	0.00021	U	0.00020	U	0.00023	U	0.00024	U	0.00021	U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.018	U	0.00015	U	0.00014	U	0.00016	U	0.00017	U	0.00015	U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.014	U	0.00012	U	0.00011	U	0.00013	U	0.00013	U	0.00012	U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.016	U	0.00014	U	0.00013	U	0.00015	U	0.00015	U	0.00013	U
Dichlorodifluoromethane	*75-71-8*	--	--	0.057	U	0.00048	U	0.00046	U	0.00052	U	0.00053	U	0.00047	U
1,1-Dichloroethane	*75-34-3*	--	--	0.020	U	0.00017	U	0.00016	U	0.00018	U	0.00018	U	0.00016	U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.018	U	0.00015	U	0.00014	U	0.00016	U	0.02		0.00015	U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.016	U	0.00014	U	0.00013	U	0.00015	U	0.00015	U	0.00013	U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.032	U	0.00027	U	0.00026	U	0.00029	U	0.00030	U	0.00026	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND		ND		ND		ND		ND		ND	
Ethylbenzene	*100-41-4*	*5.16*	--	**31**		0.079		0.00017	J	0.00014	U	0.1		0.039	
2-Hexanone	*591-78-6*	--	--	0.15	U	0.0012	U	0.0012	U	0.0013	U	0.0014	U	0.0012	U
Isopropylbenzene	*98-82-8*	--	--	12.4		0.011		0.0006	J	0.00015	U	0.0098		0.0064	
Methyl Acetate	*79-20-9*	--	--	0.21	U	0.0018	U	0.0017	U	0.0019	U	0.0020	U	0.0017	U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.04	J	0.097		0.00022	U	0.00025	U	0.00026	U	0.00023	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P38:13'		P38:18'		P39:15'		P40:6'		P40:15'		P41:5'	
			Date Sampled:	4/28/2017		4/28/2017		4/27/2017		5/8/2017		5/8/2017		5/8/2017	
			Depth (ft):	13-13		18-18		15-15		6-6		15-15		5-5	
			LAB Sample ID:	JC42231-5		JC42231-6		JC42109-10		JC42929-15		JC42929-16		JC42929-17	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.089	U	0.00075	U	0.00071	U	0.00081	U	0.0019	J	0.00072	U
Methylcyclohexane	*108-87-2*	--	--	19.5		0.0074		0.00042	U	0.001	J	0.0045		0.0091	
Methylene chloride	*75-09-2*	*4.05*	--	0.10	U	0.00089	U	0.00084	U	0.00095	U	0.002	J	0.00085	U
Styrene	*100-42-5*	*4.69*	*300*	0.015	U	0.00013	U	0.00012	U	0.00014	U	0.00014	U	0.00012	U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.025	U	0.00021	U	0.00020	U	0.00023	U	0.00023	U	0.00020	U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.029	U	0.00025	U	0.00023	U	0.00027	U	0.00027	U	0.00024	U
Toluene	*108-88-3*	*200*	--	8.9		0.01		0.00018	J	0.00012	U	1.9		0.00081	J
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.017	U	0.00014	U	0.00013	U	0.00015	U	0.00015	U	0.00013	U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.023	U	0.00020	U	0.00018	U	0.00021	U	0.00022	U	0.00019	U
Freon 113	*76-13-1*	--	--	0.051	U	0.00043	U	0.00040	U	0.00046	U	0.00047	U	0.00041	U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.052	U	0.00044	U	0.00042	U	0.00048	U	0.00049	U	0.00043	U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.017	U	0.00015	U	0.00014	U	0.00016	U	0.00016	U	0.00014	U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.034	U	0.00029	U	0.00027	U	0.00031	U	0.00032	U	0.00028	U
Trichloroethene	*79-01-6*	*12.4*	--	0.020	U	0.00017	U	0.00016	U	0.00018	U	0.00019	U	0.00016	U
Trichlorofluoromethane	*75-69-4*	--	--	0.066	U	0.00056	U	0.00053	U	0.00060	U	0.00061	U	0.00054	U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.052	U	0.00044	U	0.00042	U	0.00048	U	0.00049	U	0.00043	U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.021	U	0.00018	U	0.00017	U	0.00019	U	0.00020	U	0.00017	U
m,p-Xylene	*179601-23-1*	--	--	90.6		0.041		0.00056	J	0.00021	U	2		0.022	
o-Xylene	*95-47-6*	--	--	28.2		0.0071		0.00089		0.0005	J	0.82		0.00072	J
Xylenes (total)	*1330-20-7*	*10*	--	**118.8**		0.0481		0.00145		0.0005	J	2.82		0.02272	
Total VOC TIC	*SRP170*	--	--	68	J	0.21	J	ND		0.0066	J	0.35	J	0.29	J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P41:10'	P42:6'	P42:8'	P43:1'	P43:2'	P43:6'
			Date Sampled:	5/8/2017	5/8/2017	5/8/2017	4/27/2017	4/27/2017	4/27/2017
			Depth (ft):	10-10	6-6	8-8	1-1	2-2	6-6
			LAB Sample ID:	JC42929-18	JC42929-19	JC42929-20	JC42109-14	JC42109-15	JC42109-16
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acetone	*67-64-1*	--	--	0.49 U	0.0050 U	0.0047 U	0.60 U	0.36 U	0.25 U
Benzene	*71-43-2*	*0.255*	--	**1.6**	0.00012 U	0.0022	**6.2**	**1.2**	**0.89**
Bromochloromethane	*74-97-5*	--	--	0.032 U	0.00032 U	0.00030 U	0.038 U	0.023 U	0.016 U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.015 U	0.00015 U	0.00014 U	0.018 U	0.011 U	0.0075 U
Bromoform	*75-25-2*	*15.9*	--	0.026 U	0.00027 U	0.00025 U	0.032 U	0.019 U	0.013 U
Bromomethane	*74-83-9*	*0.235*	--	0.048 U	0.00049 U	0.00046 U	0.058 U	0.035 U	0.024 U
2-Butanone (MEK)	*78-93-3*	--	--	0.17 U	0.0018 U	0.0017 U	0.21 U	0.13 U	0.087 U
Carbon Disulfide	*75-15-0*	--	--	0.017 U	0.00017 U	0.00016 U	0.020 U	0.012 U	0.0084 U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.016 U	0.00017 U	0.00016 U	0.020 U	0.012 U	0.0082 U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.016 U	0.00016 U	0.00015 U	0.019 U	0.012 U	0.0080 U
Chloroethane	*75-00-3*	--	--	0.042 U	0.00043 U	0.00041 U	0.051 U	0.031 U	0.021 U
Chloroform	*67-66-3*	*1.19*	--	0.024 U	0.00024 U	0.00023 U	0.029 U	0.017 U	0.012 U
Chloromethane	*74-87-3*	--	--	0.021 U	0.00021 U	0.00020 U	0.025 U	0.015 U	0.010 U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.043 U	0.00044 U	0.00042 U	0.052 U	0.032 U	0.022 U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.019 U	0.00020 U	0.00019 U	0.023 U	0.014 U	0.0097 U
Cyclohexane	*110-82-7*	--	--	2.9	0.00055 U	0.00052 U	11.1	0.46	1.6
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.048 U	0.00049 U	0.00046 U	0.058 U	0.035 U	0.024 U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.015 U	0.00015 U	0.00014 U	0.018 U	0.011 U	0.0074 U
1,2-Dibromoethane	*106-93-4*	--	--	0.024 U	0.00024 U	0.00023 U	0.029 U	0.018 U	0.012 U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.017 U	0.00017 U	0.00016 U	0.020 U	0.012 U	0.0084 U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.014 U	0.00014 U	0.00013 U	0.016 U	0.010 U	0.0068 U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.015 U	0.00015 U	0.00015 U	0.018 U	0.011 U	0.0075 U
Dichlorodifluoromethane	*75-71-8*	--	--	0.054 U	0.00055 U	0.00052 U	0.065 U	0.040 U	0.027 U
1,1-Dichloroethane	*75-34-3*	--	--	0.018 U	0.00019 U	0.00018 U	0.022 U	0.014 U	0.0092 U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.017 U	0.00017 U	0.00016 U	0.020 U	0.012 U	0.0084 U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.015 U	0.00015 U	0.00015 U	0.018 U	0.011 U	0.0075 U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.031 U	0.00031 U	0.00029 U	0.037 U	0.022 U	0.015 U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND	ND	ND	ND	ND	ND
Ethylbenzene	*100-41-4*	*5.16*	--	**27.2**	0.0013	0.00073 J	**285**	**8**	3.2
2-Hexanone	*591-78-6*	--	--	0.14 U	0.0014 U	0.0013 U	0.17 U	0.10 U	0.068 U
Isopropylbenzene	*98-82-8*	--	--	4.7	0.00023 J	0.00019 J	56.1	1.1	2.2
Methyl Acetate	*79-20-9*	--	--	0.20 U	0.0020 U	0.0019 U	0.24 U	0.15 U	0.10 U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.026 U	0.00027 U	0.0015	0.032 U	0.019 U	0.013 U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:		P41:10'		P42:6'		P42:8'		P43:1'		P43:2'		P43:6'	
			Date Sampled:		5/8/2017		5/8/2017		5/8/2017		4/27/2017		4/27/2017		4/27/2017	
			Depth (ft):		10-10		6-6		8-8		1-1		2-2		6-6	
			LAB Sample ID:		JC42929-18		JC42929-19		JC42929-20		JC42109-14		JC42109-15		JC42109-16	
			LAB:		Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***													
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.084	U	0.00086	U	0.00081	U	0.10	U	0.062	U	0.042	U
Methylcyclohexane	*108-87-2*	--	--	10.5		0.00051	U	0.00048	U	80.9		1.9		7.4	
Methylene chloride	*75-09-2*	*4.05*	--	0.099	U	0.0010	U	0.00095	U	0.12	U	0.073	U	0.049	U
Styrene	*100-42-5*	*4.69*	*300*	0.014	U	0.00015	U	0.00014	U	0.017	U	0.011	U	0.0071	U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.024	U	0.00024	U	0.00023	U	0.029	U	0.017	U	0.012	U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.028	U	0.00028	U	0.00027	U	0.034	U	0.020	U	0.014	U
Toluene	*108-88-3*	*200*	--	23.3		0.0012		0.00064	J	102		0.36		0.03	J
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.016	U	0.00016	U	0.00015	U	0.019	U	0.011	U	0.0078	U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.022	U	0.00022	U	0.00021	U	0.026	U	0.016	U	0.011	U
Freon 113	*76-13-1*	--	--	0.048	U	0.00049	U	0.00046	U	0.058	U	0.035	U	0.024	U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.049	U	0.00050	U	0.00047	U	0.060	U	0.036	U	0.025	U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.016	U	0.00017	U	0.00016	U	0.020	U	0.012	U	0.0082	U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.032	U	0.00033	U	0.00031	U	0.039	U	0.023	U	0.016	U
Trichloroethene	*79-01-6*	*12.4*	--	0.019	U	0.00019	U	0.00018	U	0.023	U	0.014	U	0.0094	U
Trichlorofluoromethane	*75-69-4*	--	--	0.062	U	0.00063	U	0.00060	U	0.075	U	0.046	U	0.031	U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.049	U	0.00050	U	0.00047	U	0.060	U	0.036	U	0.025	U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.020	U	0.00020	U	0.00019	U	0.024	U	0.015	U	0.010	U
m,p-Xylene	*179601-23-1*	--	--	101		0.0053		0.003		2020		37.8		2.4	
o-Xylene	*95-47-6*	--	--	33.2		0.0019		0.0012		766		5		0.33	
Xylenes (total)	*1330-20-7*	*10*	--	**134.2**		0.0072		0.0042		**2786**		**42.8**		2.73	
Total VOC TIC	*SRP170*	--	--	61.7	J	ND		ND		177	J	26.9	J	85.9	J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P44:3'		P44:7-7 1/2'		P45:5 1/2-6'		P45:12-12 1/2'		P46:6-6 1/2'		P47:6-6 1/2'	
			Date Sampled:	4/28/2017		4/28/2017		4/27/2017		4/27/2017		5/9/2017		10/4/2017	
			Depth (ft):	3-3		7-7.5		5.5-6		12-12.5		6-6.5		6-6.5	
			LAB Sample ID:	JC42231-16		JC42231-17		JC42109-11		JC42109-12		JC42929-40		JC52433-8	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acetone	*67-64-1*	--	--	0.62	U	0.017		0.021		0.0092	J	0.0064	J	0.0066	U
Benzene	*71-43-2*	*0.255*	--	**6.3**		0.0033		0.00011	U	0.0021		0.0016		0.00011	U
Bromochloromethane	*74-97-5*	--	--	0.040	U	0.00036	U	0.00028	U	0.00031	U	0.00032	U	0.00045	U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.019	U	0.00017	U	0.00013	U	0.00015	U	0.00015	U	0.00025	U
Bromoform	*75-25-2*	*15.9*	--	0.033	U	0.00030	U	0.00024	U	0.00026	U	0.00026	U	0.00032	U
Bromomethane	*74-83-9*	*0.235*	--	0.060	U	0.00055	U	0.00043	U	0.00047	U	0.00048	U	0.00073	U
2-Butanone (MEK)	*78-93-3*	--	--	0.22	U	0.0020	U	0.0016	U	0.0017	U	0.0018	U	0.0054	U
Carbon Disulfide	*75-15-0*	--	--	0.021	U	0.00045	J	0.00015	U	0.00017	U	0.00017	U	0.00063	U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.021	U	0.00019	U	0.00015	U	0.00016	U	0.00017	U	0.00067	U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.020	U	0.00018	U	0.00014	U	0.00016	U	0.00016	U	0.00030	U
Chloroethane	*75-00-3*	--	--	0.053	U	0.00049	U	0.00038	U	0.00042	U	0.00043	U	0.00093	U
Chloroform	*67-66-3*	*1.19*	--	0.030	U	0.00027	U	0.00021	U	0.00025	J	0.00024	U	0.00033	U
Chloromethane	*74-87-3*	--	--	0.026	U	0.00024	U	0.00019	U	0.00021	U	0.00021	U	0.0010	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.054	U	0.00050	U	0.00039	U	0.00043	U	0.00044	U	0.00042	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.024	U	0.00022	U	0.00017	U	0.00019	U	0.00020	U	0.00040	U
Cyclohexane	*110-82-7*	--	--	9.3		0.00062	U	0.00048	U	0.00053	U	0.00054	U	0.00036	U
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.060	U	0.00055	U	0.00043	U	0.00047	U	0.00048	U	0.00070	U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.019	U	0.00017	U	0.00013	U	0.00015	U	0.00015	U	0.00039	U
1,2-Dibromoethane	*106-93-4*	--	--	0.030	U	0.00027	U	0.00021	U	0.00024	U	0.00024	U	0.00025	U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.021	U	0.00019	U	0.00015	U	0.00017	U	0.00017	U	0.00053	U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.017	U	0.00016	U	0.00012	U	0.00013	U	0.00014	U	0.00030	U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.019	U	0.00017	U	0.00014	U	0.00015	U	0.00015	U	0.00050	U
Dichlorodifluoromethane	*75-71-8*	--	--	0.068	U	0.00062	U	0.00048	U	0.00053	U	0.00054	U	0.00063	U
1,1-Dichloroethane	*75-34-3*	--	--	0.023	U	0.00021	U	0.00017	U	0.00018	U	0.00019	U	0.00027	U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.021	U	0.00019	U	0.00015	U	0.00017	U	0.00017	U	0.00019	U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.019	U	0.00017	U	0.00014	U	0.00015	U	0.00015	U	0.00073	U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.038	U	0.00035	U	0.00027	U	0.00030	U	0.00031	U	0.00041	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND		ND		ND		ND		ND		ND	
Ethylbenzene	*100-41-4*	*5.16*	--	**165**		0.052		0.00013	U	0.00015	U	0.0017		0.00030	U
2-Hexanone	*591-78-6*	--	--	0.17	U	0.0016	U	0.0012	U	0.0014	U	0.0014	U	0.0029	U
Isopropylbenzene	*98-82-8*	--	--	42.4		0.027		0.00014	U	0.00051	J	0.00052	J	0.00026	U
Methyl Acetate	*79-20-9*	--	--	0.25	U	0.0023	U	0.0018	U	0.0020	U	0.0020	U	0.0026	U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.033	U	0.0048		0.00023	U	0.014		0.0009	J	0.00044	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P44:3'		P44:7-7 1/2'		P45:5 1/2-6'		P45:12-12 1/2'		P46:6-6 1/2'		P47:6-6 1/2'	
			Date Sampled:	4/28/2017		4/28/2017		4/27/2017		4/27/2017		5/9/2017		10/4/2017	
			Depth (ft):	3-3		7-7.5		5.5-6		12-12.5		6-6.5		6-6.5	
			LAB Sample ID:	JC42231-16		JC42231-17		JC42109-11		JC42109-12		JC42929-40		JC52433-8	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.11	U	0.00096	U	0.00075	U	0.00083	U	0.00085	U	0.0019	U
Methylcyclohexane	*108-87-2*	--	--	58.1		0.0028		0.00045	U	0.00049	U	0.00050	U	0.00057	U
Methylene chloride	*75-09-2*	*4.05*	--	0.12	U	0.0011	U	0.00089	U	0.00098	U	0.0010	U	0.0026	U
Styrene	*100-42-5*	*4.69*	*300*	0.018	U	0.00016	U	0.00013	U	0.00014	U	0.00014	U	0.00051	U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.030	U	0.00027	U	0.00021	U	0.00023	U	0.00024	U	0.00026	U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.035	U	0.00032	U	0.00025	U	0.00028	U	0.00028	U	0.00066	U
Toluene	*108-88-3*	*200*	--	2.7		0.00044	J	0.00011	U	0.00012	U	0.0014		0.00057	U
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.020	U	0.00018	U	0.00014	U	0.00015	U	0.00016	U	0.00060	U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.027	U	0.00025	U	0.00020	U	0.00022	U	0.00022	U	0.00025	U
Freon 113	*76-13-1*	--	--	0.060	U	0.00055	U	0.00043	U	0.00047	U	0.00048	U	0.00070	U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.062	U	0.00057	U	0.00044	U	0.00049	U	0.00050	U	0.0010	U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.021	U	0.00019	U	0.00015	U	0.00016	U	0.00017	U	0.00060	U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.040	U	0.00037	U	0.00029	U	0.00032	U	0.00032	U	0.00043	U
Trichloroethene	*79-01-6*	*12.4*	--	0.024	U	0.00022	U	0.00017	U	0.00019	U	0.00019	U	0.00057	U
Trichlorofluoromethane	*75-69-4*	--	--	0.078	U	0.00071	U	0.00056	U	0.00062	U	0.00063	U	0.00050	U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.062	U	0.00057	U	0.00044	U	0.00049	U	0.00050	U	0.0010	U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.025	U	0.00023	U	0.00018	U	0.00020	U	0.00020	U	0.00079	U
m,p-Xylene	*179601-23-1*	--	--	765		0.29		0.00021	J	0.00021	U	0.011		0.00057	U
o-Xylene	*95-47-6*	--	--	183		0.071		0.00018	U	0.00020	U	0.012		0.00026	U
Xylenes (total)	*1330-20-7*	*10*	--	**948**		0.361		0.00021	J	0.00020	U	0.023		0.00026	U
Total VOC TIC	*SRP170*	--	--	80	J	0.6	J	ND		ND		0.06	J	ND	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P48:1-1 1/2'		P48:7 1/2-8'		P48:20'		P49: 4 1/2-5'		P50: 4-4 1/2'		P51:2 1/2-3'	
			Date Sampled:	10/4/2017		10/4/2017		10/4/2017		10/3/2017		10/3/2017		10/4/2017	
			Depth (ft):	1-1.5		7.5-8		20-20		4.5-5		4-4.5		2.5-3	
			LAB Sample ID:	JC52433-5		JC52433-6		JC52433-7		JC52345-1		JC52345-2		JC52433-1	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acetone	*67-64-1*	--	--	0.0062	U	0.0070	U	0.016		0.0051	U	0.019		14	U
Benzene	*71-43-2*	*0.255*	--	0.0027		0.00012	U	0.035		0.000085	U	0.000092	U	0.24	U
Bromochloromethane	*74-97-5*	--	--	0.00042	U	0.00047	U	0.00045	U	0.00035	U	0.00037	U	0.98	U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.00023	U	0.00026	U	0.00025	U	0.00019	U	0.00021	U	0.55	U
Bromoform	*75-25-2*	*15.9*	--	0.00030	U	0.00034	U	0.00033	U	0.00025	U	0.00027	U	0.70	U
Bromomethane	*74-83-9*	*0.235*	--	0.0011	J	0.00076	U	0.00073	U	0.00056	U	0.0006	U	1.6	U
2-Butanone (MEK)	*78-93-3*	--	--	0.0050	U	0.0057	U	0.0055	U	0.0042	U	0.0045	U	12	U
Carbon Disulfide	*75-15-0*	--	--	0.00059	U	0.00066	U	0.0021		0.00049	U	0.00053	U	1.4	U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.00062	U	0.00070	U	0.00068	U	0.00052	U	0.00056	U	1.5	U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.00028	U	0.00031	U	0.00030	U	0.00023	U	0.00025	U	0.65	U
Chloroethane	*75-00-3*	--	--	0.00087	U	0.00098	U	0.00094	U	0.00072	U	0.00078	U	2.0	U
Chloroform	*67-66-3*	*1.19*	--	0.00031	U	0.00035	U	0.00034	U	0.00026	U	0.00028	U	0.73	U
Chloromethane	*74-87-3*	--	--	0.00095	U	0.0011	U	0.0010	U	0.00079	U	0.00085	U	2.2	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.00039	U	0.00044	U	0.00042	U	0.00032	U	0.00035	U	0.91	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.00037	U	0.00042	U	0.00040	U	0.00031	U	0.00033	U	0.86	U
Cyclohexane	*110-82-7*	--	--	0.00033	U	0.00037	U	0.00075	J	0.00027	U	0.0003	U	0.77	U
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.00065	U	0.00073	U	0.00070	U	0.00054	U	0.00058	U	1.5	U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.00037	U	0.00041	U	0.00040	U	0.0003	U	0.00033	U	0.86	U
1,2-Dibromoethane	*106-93-4*	--	--	0.00024	U	0.00027	U	0.00026	U	0.0002	U	0.00021	U	0.55	U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.00050	U	0.00056	U	0.00054	U	0.00041	U	0.00044	U	1.2	U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.00028	U	0.00031	U	0.00030	U	0.00023	U	0.00025	U	0.65	U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.00046	U	0.00052	U	0.00050	U	0.00038	U	0.00041	U	*1.1*	U
Dichlorodifluoromethane	*75-71-8*	--	--	0.00058	U	0.00066	U	0.00063	U	0.00048	U	0.00052	U	1.4	U
1,1-Dichloroethane	*75-34-3*	--	--	0.00025	U	0.00028	U	0.00027	U	0.00021	U	0.00022	U	0.58	U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.00017	U	0.00020	U	0.00019	U	0.00014	U	0.00016	U	0.41	U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.00068	U	0.00077	U	0.00074	U	0.00056	U	0.00061	U	1.6	U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.00038	U	0.00043	U	0.00041	U	0.00032	U	0.00034	U	0.89	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND		ND		ND		ND		ND		ND	
Ethylbenzene	*100-41-4*	*5.16*	--	0.0033		0.00031	U	0.00030	U	0.00023	U	0.00025	U	**32.6**	
2-Hexanone	*591-78-6*	--	--	0.0027	U	0.0030	U	0.0029	U	0.0022	U	0.0024	U	6.3	U
Isopropylbenzene	*98-82-8*	--	--	0.00024	U	0.00027	U	0.0012	J	0.0002	U	0.00021	U	15.3	
Methyl Acetate	*79-20-9*	--	--	0.0051		0.0027	U	0.0026	U	0.002	U	0.0022	U	5.7	U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.00041	U	0.00046	U	0.096		0.00066	J	0.00037	U	0.96	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P48:1-1 1/2'	P48:7 1/2-8'	P48:20'	P49: 4 1/2-5'	P50: 4-4 1/2'	P51:2 1/2-3'
			Date Sampled:	10/4/2017	10/4/2017	10/4/2017	10/3/2017	10/3/2017	10/4/2017
			Depth (ft):	1-1.5	7.5-8	20-20	4.5-5	4-4.5	2.5-3
			LAB Sample ID:	JC52433-5	JC52433-6	JC52433-7	JC52345-1	JC52345-2	JC52433-1
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.0017 U	0.0020 U	0.0019 U	0.0014 U	0.0016 U	4.1 U
Methylcyclohexane	*108-87-2*	--	--	0.00081 J	0.00059 U	0.00062 J	0.00044 U	0.00047 U	11.4
Methylene chloride	*75-09-2*	*4.05*	--	0.0024 U	0.0027 U	0.0026 U	0.002 U	0.0022 U	5.6 U
Styrene	*100-42-5*	*4.69*	*300*	0.00048 U	0.00054 U	0.00052 U	0.0004 U	0.00043 U	1.1 U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.00024 U	0.00028 U	0.00027 U	0.0002 U	0.00022 U	0.57 U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.00061 U	0.00069 U	0.00067 U	0.00051 U	0.00055 U	5.9
Toluene	*108-88-3*	*200*	--	0.0046	0.00059 U	0.00071 J	0.00044 U	0.00047 U	1.2 U
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.00056 U	0.00063 U	0.00061 U	0.00047 U	0.0005 U	1.3 U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.00023 U	0.00026 U	0.00025 U	0.00019 U	0.0002 U	0.53 U
Freon 113	*76-13-1*	--	--	0.00065 U	0.00073 U	0.00070 U	0.00054 U	0.00058 U	1.5 U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.00096 U	0.0011 U	0.0010 U	0.0008 U	0.00086 U	2.3 U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.00056 U	0.00063 U	0.00061 U	0.00046 U	0.0005 U	1.3 U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.00040 U	0.00046 U	0.00044 U	0.00033 U	0.00036 U	0.95 U
Trichloroethene	*79-01-6*	*12.4*	--	0.00052 U	0.00059 U	0.00057 U	0.00044 U	0.00047 U	1.2 U
Trichlorofluoromethane	*75-69-4*	--	--	0.00046 U	0.00052 U	0.00050 U	0.00038 U	0.00041 U	1.1 U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.00096 U	0.0011 U	0.0010 U	0.0008 U	0.00086 U	2.3 U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.00073 U	0.00083 U	0.00080 U	0.00061 U	0.00066 U	1.7 U
m,p-Xylene	*179601-23-1*	--	--	0.012	0.00059 U	0.0011	0.00044 U	0.00047 U	418
o-Xylene	*95-47-6*	--	--	0.0023	0.00027 U	0.0047	0.0002 U	0.00022 U	199
Xylenes (total)	*1330-20-7*	*10*	--	0.0143	0.00027 U	0.0058	0.0002 U	0.00022 U	**617**
Total VOC TIC	*SRP170*	--	--	0.01 J	ND	0.0056 J	ND	ND	3920 J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P51:3 1/2-4'	P52: 0-1/2'	P52: 7-8'	P53: 4-4 1/2'	P54: 0-1/2'	P54: 1/2-1'
			Date Sampled:	10/4/2017	10/3/2017	10/3/2017	10/3/2017	10/3/2017	10/3/2017
			Depth (ft):	3.5-4	0-0.5	7-8	4-4.5	0-0.5	0.5-1
			LAB Sample ID:	JC52433-2	JC52345-17	JC52345-18	JC52345-10	JC52345-34	JC52345-35
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acetone	*67-64-1*	--	--	4.6 U	0.96 U	0.0062 U	0.0085	0.027	0.015 U
Benzene	*71-43-2*	*0.255*	--	0.077 U	0.016 U	0.0001 U	0.000069 U	0.00024 U	0.00024 U
Bromochloromethane	*74-97-5*	--	--	0.31 U	0.065 U	0.00042 U	0.00028 U	0.00099 U	0.00099 U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.18 U	0.036 U	0.00023 U	0.00016 U	0.00055 U	0.00055 U
Bromoform	*75-25-2*	*15.9*	--	0.23 U	0.047 U	0.0003 U	0.0002 U	0.00071 U	0.00071 U
Bromomethane	*74-83-9*	*0.235*	--	0.51 U	0.11 U	0.00068 U	0.00045 U	0.0016 U	0.0016 U
2-Butanone (MEK)	*78-93-3*	--	--	3.8 U	0.78 U	0.005 U	0.0034 U	0.012 U	0.012 U
Carbon Disulfide	*75-15-0*	--	--	0.44 U	0.092 U	0.00059 U	0.00039 U	0.0014 U	0.0014 U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.47 U	0.097 U	0.00063 U	0.00042 U	0.0015 U	0.0015 U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.21 U	0.043 U	0.00028 U	0.00019 U	0.00066 U	0.00066 U
Chloroethane	*75-00-3*	--	--	0.65 U	0.14 U	0.00087 U	0.00058 U	0.0021 U	0.0021 U
Chloroform	*67-66-3*	*1.19*	--	0.23 U	0.048 U	0.00031 U	0.00021 U	0.00074 U	0.00074 U
Chloromethane	*74-87-3*	--	--	0.71 U	0.15 U	0.00095 U	0.00064 U	0.0022 U	0.0022 U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.29 U	0.06 U	0.00039 U	0.00026 U	0.00092 U	0.00092 U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.28 U	0.058 U	0.00037 U	0.00025 U	0.00087 U	0.00087 U
Cyclohexane	*110-82-7*	--	--	0.25 U	0.051 U	0.00033 U	0.00022 U	0.00078 U	0.00078 U
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.49 U	0.1 U	0.00065 U	0.00043 U	0.0015 U	0.0015 U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.28 U	0.057 U	0.00037 U	0.00025 U	0.00087 U	0.00087 U
1,2-Dibromoethane	*106-93-4*	--	--	0.18 U	0.037 U	0.00024 U	0.00016 U	0.00056 U	0.00056 U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.37 U	0.077 U	0.0005 U	0.00033 U	0.0012 U	0.0012 U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.21 U	0.043 U	0.00028 U	0.00019 U	0.00065 U	0.00065 U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.35 U	0.072 U	0.00046 U	0.00031 U	0.0011 U	0.0011 U
Dichlorodifluoromethane	*75-71-8*	--	--	0.44 U	0.091 U	0.00059 U	0.00039 U	0.0014 U	0.0014 U
1,1-Dichloroethane	*75-34-3*	--	--	0.19 U	0.039 U	0.00025 U	0.00017 U	0.00059 U	0.00059 U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.13 U	0.027 U	0.00017 U	0.00012 U	0.00041 U	0.00041 U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.51 U	0.11 U	0.00068 U	0.00046 U	0.0016 U	0.0016 U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.29 U	0.06 U	0.00038 U	0.00026 U	0.0009 U	0.0009 U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND	ND	ND	ND	ND	ND
Ethylbenzene	*100-41-4*	*5.16*	--	**22.1**	0.043 U	0.00028 U	0.00019 U	0.00066 U	0.00066 U
2-Hexanone	*591-78-6*	--	--	2.0 U	0.42 U	0.0027 U	0.0018 U	0.0064 U	0.0064 U
Isopropylbenzene	*98-82-8*	--	--	12.3	0.76	0.00024 U	0.00016 U	0.00056 U	0.00056 U
Methyl Acetate	*79-20-9*	--	--	1.8 U	0.38 U	0.0024 U	0.0016 U	0.0058 U	0.0058 U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.31 U	0.064 U	0.00041 U	0.00028 U	0.00097 U	0.00097 U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P51:3 1/2-4'	P52: 0-1/2'	P52: 7-8'	P53: 4-4 1/2'	P54: 0-1/2'	P54: 1/2-1'
			Date Sampled:	10/4/2017	10/3/2017	10/3/2017	10/3/2017	10/3/2017	10/3/2017
			Depth (ft):	3.5-4	0-0.5	7-8	4-4.5	0-0.5	0.5-1
			LAB Sample ID:	JC52433-2	JC52345-17	JC52345-18	JC52345-10	JC52345-34	JC52345-35
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	1.3 U	0.27 U	0.0017 U	0.0012 U	0.0041 U	0.0041 U
Methylcyclohexane	*108-87-2*	--	--	13.7	0.082 U	0.00053 U	0.00035 U	0.0012 U	0.0012 U
Methylene chloride	*75-09-2*	*4.05*	--	1.8 U	0.38 U	0.0024 U	0.0016 U	0.0057 U	0.0057 U
Styrene	*100-42-5*	*4.69*	*300*	0.36 U	0.074 U	0.00048 U	0.00032 U	0.0011 U	0.0011 U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.18 U	0.038 U	0.00024 U	0.00016 U	0.00058 U	0.00058 U
Tetrachloroethene	*127-18-4*	*9.92*	--	1.2 J	0.096 U	0.00061 U	0.00041 U	0.0015 U	0.0015 U
Toluene	*108-88-3*	*200*	--	0.40 U	0.082 U	0.00053 U	0.00035 U	0.0012 U	0.0012 U
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.42 U	0.088 U	0.00056 U	0.00038 U	0.0013 U	0.0013 U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.17 U	0.036 U	0.00023 U	0.00015 U	0.00054 U	0.00054 U
Freon 113	*76-13-1*	--	--	0.49 U	0.1 U	0.00065 U	0.00044 U	0.0015 U	0.0015 U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.72 U	0.15 U	0.00096 U	0.00065 U	0.0023 U	0.0023 U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.42 U	0.087 U	0.00056 U	0.00038 U	0.0013 U	0.0013 U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.30 U	0.063 U	0.0004 U	0.00027 U	0.00096 U	0.00096 U
Trichloroethene	*79-01-6*	*12.4*	--	0.40 U	0.082 U	0.00053 U	0.00035 U	0.0012 U	0.0012 U
Trichlorofluoromethane	*75-69-4*	--	--	0.35 U	0.072 U	0.00046 U	0.00031 U	0.0011 U	0.0011 U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.72 U	0.15 U	0.00096 U	0.00065 U	0.0023 U	0.0023 U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.55 U	0.11 U	0.00074 U	0.00049 U	0.0017 U	0.0017 U
m,p-Xylene	*179601-23-1*	--	--	161	0.082 U	0.00053 U	0.00035 U	0.0012 U	0.0012 U
o-Xylene	*95-47-6*	--	--	26.2	0.038 U	0.00024 U	0.00016 U	0.00057 U	0.00057 U
Xylenes (total)	*1330-20-7*	*10*	--	**187.2**	0.038 U	0.00024 U	0.00016 U	0.00057 U	0.00057 U
Total VOC TIC	*SRP170*	--	--	1190 J	29.6 J	ND	ND	ND	ND

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P55: 0-4		P56: 3-3 1/2'		P57: 3 1/2-4'		P60:0- 1/2'		P60:1 1/2-2'		P70: 3 1/2-4'	
			Date Sampled:	10/3/2017		10/3/2017		10/3/2017		10/4/2017		10/4/2017		10/3/2017	
			Depth (ft):	0-0.33		3-3.5		3.5-4		0-0.5		1.5-2		3.5-4	
			LAB Sample ID:	JC52345-36		JC52345-3		JC52345-4		JC52433-18		JC52433-19		JC52345-21	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acetone	*67-64-1*	--	--	0.017		0.0065	J	0.0063	U	0.0085	U	0.021		50	U
Benzene	*71-43-2*	*0.255*	--	0.00017	U	0.000092	U	0.00011	U	0.00014	U	0.043		**33.8**	
Bromochloromethane	*74-97-5*	--	--	0.00069	U	0.00038	U	0.00043	U	0.00058	U	0.00047	U	3.4	U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.00039	U	0.00021	U	0.00024	U	0.00032	U	0.00027	U	1.9	U
Bromoform	*75-25-2*	*15.9*	--	0.0005	U	0.00027	U	0.00031	U	0.00041	U	0.00034	U	2.4	U
Bromomethane	*74-83-9*	*0.235*	--	0.0011	U	0.00061	U	0.00069	U	0.00093	U	0.00077	U	5.4	U
2-Butanone (MEK)	*78-93-3*	--	--	0.0083	U	0.0045	U	0.0052	U	0.0070	U	0.0057	U	40	U
Carbon Disulfide	*75-15-0*	--	--	0.00097	U	0.00053	U	0.0006	U	0.00081	U	0.00067	U	4.7	U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.001	U	0.00056	U	0.00064	U	0.00086	U	0.00071	U	5	U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.00046	U	0.00025	U	0.00028	U	0.00038	U	0.00031	U	2.2	U
Chloroethane	*75-00-3*	--	--	0.0014	U	0.00078	U	0.00089	U	0.0012	U	0.00098	U	7	U
Chloroform	*67-66-3*	*1.19*	--	0.00052	U	0.00028	U	0.00032	U	0.00043	U	0.00035	U	2.5	U
Chloromethane	*74-87-3*	--	--	0.0016	U	0.00085	U	0.00097	U	0.0013	U	0.0011	U	7.6	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.00064	U	0.00035	U	0.0004	U	0.00053	U	0.00044	U	3.1	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.00061	U	0.00033	U	0.00038	U	0.00051	U	0.00042	U	3	U
Cyclohexane	*110-82-7*	--	--	0.00055	U	0.0003	U	0.00034	U	0.00046	U	0.018		71.7	
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.0011	U	0.00058	U	0.00067	U	0.00090	U	0.00073	U	5.2	U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.00061	U	0.00033	U	0.00038	U	0.00051	U	0.00042	U	2.9	U
1,2-Dibromoethane	*106-93-4*	--	--	0.00039	U	0.00021	U	0.00024	U	0.00033	U	0.00027	U	1.9	U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.00082	U	0.00045	U	0.00051	U	0.00069	U	0.00056	U	4	U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.00046	U	0.00025	U	0.00028	U	0.00038	U	0.00031	U	2.2	U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.00076	U	0.00041	U	0.00047	U	0.00064	U	0.00052	U	*3.7*	U
Dichlorodifluoromethane	*75-71-8*	--	--	0.00097	U	0.00053	U	0.0006	U	0.00081	U	0.00066	U	4.7	U
1,1-Dichloroethane	*75-34-3*	--	--	0.00041	U	0.00022	U	0.00026	U	0.00034	U	0.00028	U	2	U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.00029	U	0.00016	U	0.00018	U	0.00024	U	0.00020	U	1.4	U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.0011	U	0.00061	U	0.0007	U	0.00094	U	0.00077	U	5.5	U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.00063	U	0.00034	U	0.00039	U	0.00053	U	0.00043	U	3.1	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND		ND		ND		ND		ND		ND	
Ethylbenzene	*100-41-4*	*5.16*	--	0.00046	U	0.00025	U	0.00029	U	0.00045	J	0.036		**786**	
2-Hexanone	*591-78-6*	--	--	0.0045	U	0.0024	U	0.0028	U	0.0037	U	0.0030	U	22	U
Isopropylbenzene	*98-82-8*	--	--	0.0015	J	0.00021	U	0.00025	U	0.00033	U	0.0034		226	
Methyl Acetate	*79-20-9*	--	--	0.004	U	0.0046		0.0025	U	0.0034	U	0.0028	U	20	U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.00068	U	0.00037	U	0.00042	U	0.00057	U	0.00047	U	3.3	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:		P55: 0-4		P56: 3-3 1/2'		P57: 3 1/2-4'		P60:0- 1/2'		P60:1 1/2-2'		P70: 3 1/2-4'	
			Date Sampled:		10/3/2017		10/3/2017		10/3/2017		10/4/2017		10/4/2017		10/3/2017	
			Depth (ft):		0-0.33		3-3.5		3.5-4		0-0.5		1.5-2		3.5-4	
			LAB Sample ID:		JC52345-36		JC52345-3		JC52345-4		JC52433-18		JC52433-19		JC52345-21	
			LAB:		Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***													
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.0029	U	0.0016	U	0.0018	U	0.0024	U	0.0020	U	14	U
Methylcyclohexane	*108-87-2*	--	--	0.00087	U	0.00047	U	0.00054	U	0.00073	U	0.058		417	
Methylene chloride	*75-09-2*	*4.05*	--	0.004	U	0.0022	U	0.0025	U	0.0033	U	0.0027	U	19	U
Styrene	*100-42-5*	*4.69*	*300*	0.00079	U	0.00043	U	0.00049	U	0.00066	U	0.00054	U	3.8	U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.00041	U	0.00022	U	0.00025	U	0.00034	U	0.00028	U	2	U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.001	U	0.00055	U	0.00063	U	0.00085	U	0.00069	U	4.9	U
Toluene	*108-88-3*	*200*	--	0.00087	U	0.00047	U	0.00054	U	0.00073	U	0.0029		11.4	
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.00093	U	0.0005	U	0.00058	U	0.00078	U	0.00064	U	4.5	U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.00038	U	0.0002	U	0.00023	U	0.00032	U	0.00026	U	1.8	U
Freon 113	*76-13-1*	--	--	0.0011	U	0.00058	U	0.00067	U	0.00090	U	0.00074	U	5.2	U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.0016	U	0.00086	U	0.00099	U	0.0013	U	0.0011	U	7.7	U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.00093	U	0.0005	U	0.00057	U	0.00077	U	0.00063	U	4.5	U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.00067	U	0.00036	U	0.00042	U	0.00056	U	0.00046	U	3.2	U
Trichloroethene	*79-01-6*	*12.4*	--	0.00087	U	0.00047	U	0.00054	U	0.00073	U	0.00060	U	4.2	U
Trichlorofluoromethane	*75-69-4*	--	--	0.00077	U	0.00041	U	0.00047	U	0.00064	U	0.00052	U	3.7	U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.0016	U	0.00086	U	0.00099	U	0.0013	U	0.0011	U	7.7	U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.0012	U	0.00066	U	0.00076	U	0.0010	U	0.00083	U	5.9	U
m,p-Xylene	*179601-23-1*	--	--	0.00087	U	0.00047	U	0.00054	U	0.0011	J	0.14		2990	
o-Xylene	*95-47-6*	--	--	0.0004	U	0.00022	U	0.00025	U	0.00033	U	0.014		151	
Xylenes (total)	*1330-20-7*	*10*	--	0.0004	U	0.00022	U	0.00025	U	0.0011	J	0.154		**3141**	
Total VOC TIC	*SRP170*	--	--	ND		ND		ND		ND		0.11	J	15900	J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:		P77		P78:2 1/2'		P99		P100		P109: 10-10 1/2'	
			Date Sampled:		2/21/2018		2/20/2018		2/21/2018		2/21/2018		5/25/2018	
			Depth (ft):		2-2.5		2.5-2.5		0-0.25		0-0.25		10-10.5	
			LAB Sample ID:		JC61183-5		JC61097-1		JC61183-17		JC61183-18		JC66860-30	
			LAB:		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***											
Acetone	*67-64-1*	--	--	0.012		0.013		0.0068	U	0.0061	U	0.0071	U	0.86	U
Benzene	*71-43-2*	*0.255*	--	0.018		0.00011	U	0.00011	U	0.0001	U	0.00012	U	**0.9**	
Bromochloromethane	*74-97-5*	--	--	0.00039	U	0.00045	U	0.00046	U	0.00042	U	0.00048	U	0.058	U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.00022	U	0.00025	U	0.00026	U	0.00023	U	0.00027	U	0.033	U
Bromoform	*75-25-2*	*15.9*	--	0.00028	U	0.00032	U	0.00033	U	0.0003	U	0.00035	U	0.042	U
Bromomethane	*74-83-9*	*0.235*	--	0.00063	U	0.00073	U	0.00074	U	0.00067	U	0.00078	U	0.094	U
2-Butanone (MEK)	*78-93-3*	--	--	0.0047	U	0.0054	U	0.0055	U	0.005	U	0.0058	U	0.70	U
Carbon Disulfide	*75-15-0*	--	--	0.00055	U	0.00063	U	0.00065	U	0.00058	U	0.00068	U	0.082	U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.00058	U	0.00067	U	0.00069	U	0.00062	U	0.00072	U	0.087	U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.00026	U	0.0003	U	0.00031	U	0.00028	U	0.00032	U	0.039	U
Chloroethane	*75-00-3*	--	--	0.00081	U	0.00094	U	0.00096	U	0.00086	U	0.001	U	0.12	U
Chloroform	*67-66-3*	*1.19*	--	0.00029	U	0.00033	U	0.00034	U	0.00031	U	0.00036	U	0.043	U
Chloromethane	*74-87-3*	--	--	0.00088	U	0.001	U	0.0010	U	0.00094	U	0.0011	U	0.13	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.00036	U	0.00042	U	0.00043	U	0.00038	U	0.00045	U	0.054	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.00034	U	0.0004	U	0.00041	U	0.00037	U	0.00043	U	0.052	U
Cyclohexane	*110-82-7*	--	--	0.00063	J	0.00036	U	0.00036	U	0.00033	U	0.00038	U	2.7	
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.0006	U	0.0007	U	0.00071	U	0.00064	U	0.00075	U	0.090	U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.00034	U	0.00039	U	0.00040	U	0.00036	U	0.00042	U	0.051	U
1,2-Dibromoethane	*106-93-4*	--	--	0.00022	U	0.00025	U	0.00026	U	0.00023	U	0.00027	U	0.033	U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.00046	U	0.00053	U	0.00055	U	0.00049	U	0.00057	U	0.069	U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.00026	U	0.0003	U	0.00030	U	0.00027	U	0.00032	U	0.039	U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.00043	U	0.0005	U	0.00051	U	0.00046	U	0.00053	U	0.064	U
Dichlorodifluoromethane	*75-71-8*	--	--	0.00054	U	0.00063	U	0.00064	U	0.00058	U	0.00068	U	0.082	U
1,1-Dichloroethane	*75-34-3*	--	--	0.00023	U	0.00027	U	0.00027	U	0.00025	U	0.00029	U	0.035	U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.0014		0.00019	U	0.00019	U	0.00017	U	0.0002	U	0.024	U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.00063	U	0.00073	U	0.00075	U	0.00068	U	0.00079	U	0.095	U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.00036	U	0.00041	U	0.00042	U	0.00038	U	0.00044	U	0.053	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND		ND		ND		ND		ND		ND	
Ethylbenzene	*100-41-4*	*5.16*	--	0.00026	U	0.0003	U	0.00031	U	0.00028	U	0.00032	U	**35.9**	
2-Hexanone	*591-78-6*	--	--	0.0025	U	0.0029	U	0.0030	U	0.0027	U	0.0031	U	0.38	U
Isopropylbenzene	*98-82-8*	--	--	0.00022	U	0.00026	U	0.00026	U	0.00024	U	0.00028	U	5.2	
Methyl Acetate	*79-20-9*	--	--	0.0023	U	0.0026	U	0.0027	U	0.0024	U	0.0028	U	0.34	U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.00055	J	0.00044	U	0.00045	U	0.00041	U	0.00048	U	0.058	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P77	P77	P78:2 1/2'	P99	P100	P109: 10-10 1/2'
			Date Sampled:	2/21/2018	2/21/2018	2/20/2018	2/21/2018	2/21/2018	5/25/2018
			Depth (ft):	2-2.5	2-2.5	2.5-2.5	0-0.25	0-0.25	10-10.5
			LAB Sample ID:	JC61183-5	JC61183-3	JC61097-1	JC61183-17	JC61183-18	JC66860-30
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.0016 U	0.0019 U	0.0019 U	0.0017 U	0.002 U	0.24 U
Methylcyclohexane	*108-87-2*	--	--	0.0005 J	0.00057 U	0.00058 U	0.00052 U	0.00061 U	10.7
Methylene chloride	*75-09-2*	*4.05*	--	0.0037 J	0.0045 J	0.0027 U	0.0052	0.0028 U	0.34 U
Styrene	*100-42-5*	*4.69*	*300*	0.00044 U	0.00051 U	0.00053 U	0.00047 U	0.00055 U	0.067 U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.00023 U	0.00026 U	0.00027 U	0.00024 U	0.00028 U	0.034 U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.00057 U	0.00066 U	0.00068 U	0.00061 U	0.00071 U	0.086 U
Toluene	*108-88-3*	*200*	--	0.00049 U	0.00057 U	0.00058 U	0.00052 U	0.00061 U	0.91
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.00052 U	0.00061 U	0.00062 U	0.00056 U	0.00065 U	0.078 U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.00021 U	0.00025 U	0.00025 U	0.00023 U	0.00026 U	0.032 U
Freon 113	*76-13-1*	--	--	0.0006 U	0.0007 U	0.00071 U	0.00064 U	0.00075 U	0.091 U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.00089 U	0.001 U	0.0011 U	0.00096 U	0.0011 U	0.13 U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.00052 U	0.0006 U	0.00062 U	0.00056 U	0.00065 U	0.078 U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.00038 U	0.00044 U	0.00045 U	0.0004 U	0.00047 U	0.056 U
Trichloroethene	*79-01-6*	*12.4*	--	0.00049 U	0.00057 U	0.00058 U	0.00052 U	0.00061 U	0.074 U
Trichlorofluoromethane	*75-69-4*	--	--	0.00043 U	0.0005 U	0.00051 U	0.00046 U	0.00053 U	0.065 U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.00089 U	0.001 U	0.0011 U	0.00096 U	0.0011 U	0.13 U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.00068 U	0.00079 U	0.00081 U	0.00073 U	0.00085 U	0.10 U
m,p-Xylene	*179601-23-1*	--	--	0.00049 U	0.00057 U	0.00058 U	0.00052 U	0.00061 U	180
o-Xylene	*95-47-6*	--	--	0.00022 U	0.00026 U	0.00027 U	0.00024 U	0.00028 U	44.3
Xylenes (total)	*1330-20-7*	*10*	--	0.00022 U	0.00026 U	0.00027 U	0.00024 U	0.00028 U	**224.3**
Total VOC TIC	*SRP170*	--	--	ND	ND	ND	ND	ND	15 J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

Sample No.:	P109: 17-17 1/2'
Date Sampled:	5/25/2018
Depth (ft):	17-17.5
LAB Sample ID:	JC66860-31
LAB:	Accutest

Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***		
Acetone	*67-64-1*	--	--	0.62	U
Benzene	*71-43-2*	*0.255*	--	**0.46**	
Bromochloromethane	*74-97-5*	--	--	0.042	U
Bromodichloromethane	*75-27-4*	*0.54*	--	0.023	U
Bromoform	*75-25-2*	*15.9*	--	0.030	U
Bromomethane	*74-83-9*	*0.235*	--	0.068	U
2-Butanone (MEK)	*78-93-3*	--	--	0.50	U
Carbon Disulfide	*75-15-0*	--	--	0.059	U
Carbon tetrachloride	*56-23-5*	*2.98*	--	0.062	U
Chlorobenzene	*108-90-7*	*13.1*	*40*	0.028	U
Chloroethane	*75-00-3*	--	--	0.087	U
Chloroform	*67-66-3*	*1.19*	--	0.031	U
Chloromethane	*74-87-3*	--	--	0.095	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.039	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.037	U
Cyclohexane	*110-82-7*	--	--	0.079	J
1,2-Dibromo-3-chloropropane	*96-12-8*	--	--	0.065	U
Dibromochloromethane	*124-48-1*	*2.05*	--	0.037	U
1,2-Dibromoethane	*106-93-4*	--	--	0.024	U
1,2-Dichlorobenzene	*95-50-1*	*2.96*	--	0.050	U
1,3-Dichlorobenzene	*541-73-1*	*37.7*	--	0.028	U
1,4-Dichlorobenzene	*106-46-7*	*0.546*	*20*	0.046	U
Dichlorodifluoromethane	*75-71-8*	--	--	0.058	U
1,1-Dichloroethane	*75-34-3*	--	--	0.025	U
1,2-Dichloroethane	*107-06-2*	*21.2*	--	0.017	U
1,1-Dichloroethene	*75-35-4*	*8.28*	--	0.068	U
1,2-Dichloropropane	*78-87-5*	*32.7*	--	0.038	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND	
Ethylbenzene	*100-41-4*	*5.16*	--	1.1	
2-Hexanone	*591-78-6*	--	--	0.27	U
Isopropylbenzene	*98-82-8*	--	--	0.18	J
Methyl Acetate	*79-20-9*	--	--	0.24	U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	--	--	0.041	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-1
Summary of Volatile Organic Compounds (VOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

Sample No.:	P109: 17-17 1/2'
Date Sampled:	5/25/2018
Depth (ft):	17-17.5
LAB Sample ID:	JC66860-31
LAB:	Accutest

Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***		
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	0.17	U
Methylcyclohexane	*108-87-2*	--	--	0.31	
Methylene chloride	*75-09-2*	*4.05*	--	0.24	U
Styrene	*100-42-5*	*4.69*	*300*	0.048	U
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.127*	--	0.024	U
Tetrachloroethene	*127-18-4*	*9.92*	--	0.061	U
Toluene	*108-88-3*	*200*	--	0.053	U
trans-1,2-Dichloroethene	*156-60-5*	*0.784*	--	0.056	U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.023	U
Freon 113	*76-13-1*	--	--	0.065	U
1,2,3-Trichlorobenzene	*87-61-6*	*20*	--	0.096	U
1,1,1-Trichloroethane	*71-55-6*	*29.8*	--	0.056	U
1,1,2-Trichloroethane	*79-00-5*	*28.6*	--	0.040	U
Trichloroethene	*79-01-6*	*12.4*	--	0.053	U
Trichlorofluoromethane	*75-69-4*	--	--	0.046	U
1,2,4-Trichlorobenzene	*120-82-1*	*20*	--	0.096	U
Vinyl Chloride	*75-01-4*	*0.646*	--	0.074	U
m,p-Xylene	*179601-23-1*	--	--	5.7	
o-Xylene	*95-47-6*	--	--	1.2	
Xylenes (total)	*1330-20-7*	*10*	--	6.9	
Total VOC TIC	*SRP170*	--	--	7.2	J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

TABLE 1-2

Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P3:4 1/2-5'		P8:6'		P8:12'		P10:0-1'		P10:3'		P17:4'	
			Date Sampled:	4/27/2017		5/8/2017		5/8/2017		5/9/2017		5/9/2017		4/28/2017	
			Depth (ft):	4.5-5		6-6		12-12		0-1		3-3		4-4	
			LAB Sample ID:	JC42109-4		JC42929-24		JC42929-25		JC42929-30R		JC42929-31R		JC42231-19	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	NA		NA		NA		0.92		0.14		0.13	
Acenaphthylene	*208-96-8*	*682*	--	NA		NA		NA		0.076		0.075		0.020	U
Acetophenone	*98-86-2*	--	--	NA		NA		NA		0.0079	U	0.0082	U	0.0085	U
Anthracene	*120-12-7*	*1480*	--	NA		NA		NA		2.6		0.24		0.052	
Aroclor 1016	*12674-11-2*	--	--	NA		NA		NA		0.03	U	0.03	U	0.030	U
Aroclor 1221	*11104-28-2*	--	--	NA		NA		NA		0.016	U	0.016	U	0.016	U
Aroclor 1232	*11141-16-5*	--	--	NA		NA		NA		0.023	U	0.023	U	0.023	U
Aroclor 1242	*53469-21-9*	--	--	NA		NA		NA		0.019	U	0.019	U	0.019	U
Aroclor 1248	*12672-29-6*	--	--	NA		NA		NA		0.022	U	0.022	U	0.022	U
Aroclor 1254	*11097-69-1*	--	--	NA		NA		NA		0.017	U	0.017	U	0.017	U
Aroclor 1260	*11096-82-5*	--	--	NA		NA		NA		0.027	U	0.027	U	0.027	U
Aroclor 1262	*37324-23-5*	--	--	NA		NA		NA		0.019	U	0.019	U	0.019	U
Aroclor 1268	*11100-14-4*	--	--	NA		NA		NA		0.016	U	0.016	U	0.016	U
Atrazine	*1912-24-9*	--	--	NA		NA		NA		0.016	U	0.016	U	0.017	U
Benzaldehyde	*100-52-7*	--	--	NA		NA		NA		0.0091	U	0.0094	U	0.0098	U
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA		NA		NA		**9.3**		0.45		0.053	
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA		NA		NA		**8.1**		0.57		0.07	
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA		NA		NA		11.3		0.6		0.07	
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA		NA		NA		7.3		0.4		0.037	J
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA		NA		NA		3.2		0.19		0.02	J
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		NA		0.041	J	0.17		0.41	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		NA		0.0079	U	0.0082	U	0.0085	U
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		NA		0.016	U	0.016	U	0.017	U
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		NA		0.013	U	0.014	U	0.014	U
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		NA		**1.1**		0.86		0.34	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		NA		0.014	U	0.015	U	0.015	U
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		NA		0.009	U	0.0093	U	0.0097	U
Caprolactam	*105-60-2*	--	--	NA		NA		NA		0.015	U	0.015	U	0.016	U
Carbazole	*86-74-8*	--	--	NA		NA		NA		1.8		0.08		0.047	J
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		NA		0.0088	U	0.0091	U	0.0094	U
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		NA		0.012	U	0.012	U	0.013	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P3:4 1/2-5'	P8:6'	P8:12'	P10:0-1'	P10:3'	P17:4'
			Date Sampled:	4/27/2017	5/8/2017	5/8/2017	5/9/2017	5/9/2017	4/28/2017
			Depth (ft):	4.5-5	6-6	12-12	0-1	3-3	4-4
			LAB Sample ID:	JC42109-4	JC42929-24	JC42929-25	JC42929-30R	JC42929-31R	JC42231-19
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Chrysene	*218-01-9*	*4.73*	--	NA	NA	NA	**8.1**	0.6	0.064
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA	NA	NA	1.5	0.07	0.018 U
Dibenzofuran	*132-64-9*	--	--	NA	NA	NA	0.41	0.1	0.016 U
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA	NA	NA	0.031 U	0.032 U	0.033 U
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA	NA	NA	NA	NA	NA
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA	NA	NA	0.0078 U	0.0081 U	0.0084 U
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	*131-11-3*	--	--	NA	NA	NA	0.0066 U	0.0068 U	0.0071 U
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA	NA	NA	0.006 U	0.0062 U	0.0065 U
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA	NA	NA	NA	NA	NA
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA	NA	NA	ND	ND	ND
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA	NA	NA	0.011 U	0.012 U	0.012 U
2,6-Dinitrotoluene	*606-20-2*	--	--	NA	NA	NA	0.018 U	0.019 U	0.020 U
Di-n-octyl phthalate	*117-84-0*	--	--	NA	NA	NA	0.0092 U	0.0095 U	0.0099 U
1,4-Dioxane	*123-91-1*	--	--	NA	NA	NA	0.024 U	0.025 U	0.026 U
Fluoranthene	*206-44-0*	*122*	--	NA	NA	NA	13.7	1.1	0.18
Fluorene	*86-73-7*	*122*	--	NA	NA	NA	0.63	0.26	0.17
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA	NA	NA	0.0093 U	0.0096 U	0.010 U
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA	NA	NA	0.015 U	0.015 U	0.016 U
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA	NA	NA	0.015 U	0.015 U	0.016 U
Hexachloroethane	*67-72-1*	*0.596*	--	NA	NA	NA	0.018 U	0.019 U	0.020 U
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA	NA	NA	**76.4**	**4.05**	0.499
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA	NA	NA	7.3	0.3	0.035 J
Isophorone	*78-59-1*	*139*	--	NA	NA	NA	0.0079 U	0.0082 U	0.0085 U
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	ND	ND	2.3	28.586	8.715	**47.902**
2-Methylnaphthalene	*91-57-6*	*3.24*	--	0.039 U	NA	NA	0.11	**4**	**23.3**
2-Methylphenol	*95-48-7*	--	--	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	*65794-96-9*	--	--	NA	NA	NA	NA	NA	NA
Naphthalene	*91-20-3*	*0.0994*	--	0.022 U	0.00090 U	**2.3**	**0.25**	**1.7**	**23.8**
2-Nitroaniline	*88-74-4*	--	--	NA	NA	NA	0.0087 U	0.009 U	0.0094 U
3-Nitroaniline	*99-09-2*	--	--	NA	NA	NA	0.0092 U	0.0095 U	0.0099 U
4-Nitroaniline	*100-01-6*	--	--	NA	NA	NA	0.0095 U	0.0099 U	0.010 U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P3:4 1/2-5'		P8:6'		P8:12'		P10:0-1'		P10:3'		P17:4'	
			Date Sampled:	4/27/2017		5/8/2017		5/8/2017		5/9/2017		5/9/2017		4/28/2017	
			Depth (ft):	4.5-5		6-6		12-12		0-1		3-3		4-4	
			LAB Sample ID:	JC42109-4		JC42929-24		JC42929-25		JC42929-30R		JC42929-31R		JC42231-19	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		0.014	U	0.015	U	0.015	U
2-Nitrophenol	*88-75-5*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA		NA		NA		NA		NA		NA	
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA		NA		NA		0.011	U	0.011	U	0.011	U
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA		NA		NA		0.013	U	0.014	U	0.015	U
p-Chloroaniline	*106-47-8*	--	--	NA		NA		NA		0.013	U	0.014	U	0.014	U
p-Chloro-m-cresol	*59-50-7*	--	--	NA		NA		NA		NA		NA		NA	
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA		NA		NA		NA		NA		NA	
Phenanthrene	*85-01-8*	*45.7*	--	NA		NA		NA		10.3		1.2		0.27	
Phenol	*108-95-2*	*30*	*120*	NA		NA		NA		NA		NA		NA	
Pyrene	*129-00-0*	*78.5*	--	NA		NA		NA		20.3		0.87		0.15	
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA		NA		NA		0.0094	U	0.0097	U	0.010	U
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA		NA		NA		NA		NA		NA	
Total PAHs	*130498-29-2*	--	--	ND		ND		2.3		104.986		12.765		48.401	
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA		NA		NA		ND		ND		ND	
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA		NA		NA		NA		NA		NA	
Total SVOC TIC	*SRP171*	--	--	NA		NA		NA		18.4	J	26.5	J	83	J
Total VOC and SVOC TICs	*SRP351*	--	--	NA		NA		NA		18.437		26.87		123.1	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P17:9'		P18:4-4 1/2'		P19:5'		P20:5'		P22:0-6		P28:3 1/2'	
			Date Sampled:	4/28/2017		5/9/2017		5/8/2017		5/8/2017		5/8/2017		5/9/2017	
			Depth (ft):	9-9		4-4.5		5-5		5-5		0-0.5		3.5-3.5	
			LAB Sample ID:	JC42231-20		JC42929-34R		JC42929-13R		JC42929-22R		JC42929-49R		JC42929-47	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	0.017	J	0.026	U	NA		0.014	U	0.058	U	NA	
Acenaphthylene	*208-96-8*	*682*	--	0.019	U	0.023	U	NA		0.02	U	0.085	U	NA	
Acetophenone	*98-86-2*	--	--	0.0080	U	NA		NA		0.0085	U	0.036	U	NA	
Anthracene	*120-12-7*	*1480*	--	0.023	U	0.023	U	NA		0.024	U	0.14	J	NA	
Aroclor 1016	*12674-11-2*	--	--	0.030	U	NA		NA		0.031	U	0.059	U	NA	
Aroclor 1221	*11104-28-2*	--	--	0.016	U	NA		NA		0.017	U	0.032	U	NA	
Aroclor 1232	*11141-16-5*	--	--	0.023	U	NA		NA		0.024	U	0.046	U	NA	
Aroclor 1242	*53469-21-9*	--	--	0.019	U	NA		NA		0.02	U	0.037	U	NA	
Aroclor 1248	*12672-29-6*	--	--	0.022	U	NA		NA		0.023	U	0.044	U	NA	
Aroclor 1254	*11097-69-1*	--	--	0.017	U	NA		NA		0.018	U	0.034	U	NA	
Aroclor 1260	*11096-82-5*	--	--	0.028	U	NA		NA		0.029	U	0.055	U	NA	
Aroclor 1262	*37324-23-5*	--	--	0.020	U	NA		NA		0.02	U	0.039	U	NA	
Aroclor 1268	*11100-14-4*	--	--	0.017	U	NA		NA		0.017	U	0.033	U	NA	
Atrazine	*1912-24-9*	--	--	0.016	U	NA		NA		0.017	U	0.072	U	NA	
Benzaldehyde	*100-52-7*	--	--	0.0092	U	NA		NA		0.0098	U	0.041	U	NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	0.017	U	0.04	U	NA		0.018	U	0.92		NA	
Benzo(a)anthracene	*56-55-3*	*5.21*	--	0.017	J	0.032	U	NA		0.011	U	0.7		NA	
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	0.017	J	0.049	U	NA		0.017	U	1.3		NA	
Benzo(ghi)perylene	*191-24-2*	*119*	--	0.019	U	0.062	U	NA		0.02	U	0.95		NA	
Benzo(k)fluoranthene	*207-08-9*	*148*	--	0.017	U	0.049	U	NA		0.018	U	0.45		NA	
1,1-Biphenyl	*92-52-4*	*60*	--	0.064	J	NA		NA		0.0054	U	0.023	U	NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	0.0079	U	NA		NA		0.0084	U	0.036	U	NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	0.016	U	NA		NA		0.017	U	0.072	U	NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	0.013	U	NA		NA		0.014	U	0.06	U	NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	0.15		NA		NA		0.0092	U	0.51		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	0.014	U	NA		NA		0.015	U	0.065	U	NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	0.0091	U	NA		NA		0.0096	U	0.041	U	NA	
Caprolactam	*105-60-2*	--	--	0.015	U	NA		NA		0.016	U	0.066	U	NA	
Carbazole	*86-74-8*	--	--	0.0054	U	NA		NA		0.0057	U	0.12	J	NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	0.0088	U	NA		NA		0.0094	U	0.04	U	NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	0.012	U	NA		NA		0.013	U	0.054	U	NA	
Chrysene	*218-01-9*	*4.73*	--	0.012	U	0.034	U	NA		0.012	U	0.9		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P17:9'	P18:4-4 1/2'	P19:5'	P20:5'	P22:0-6	P28:3 1/2'
			Date Sampled:	4/28/2017	5/9/2017	5/8/2017	5/8/2017	5/8/2017	5/9/2017
			Depth (ft):	9-9	4-4.5	5-5	5-5	0-0.5	3.5-3.5
			LAB Sample ID:	JC42231-20	JC42929-34R	JC42929-13R	JC42929-22R	JC42929-49R	JC42929-47
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	0.016 U	0.04 U	NA	0.017 U	0.18	NA
Dibenzofuran	*132-64-9*	--	--	0.015 U	NA	NA	0.016 U	0.068 U	NA
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	0.031 U	NA	NA	0.033 U	0.14 U	NA
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA	NA	NA	NA	NA	NA
Diethyl phthalate	*84-66-2*	*24.8*	*100*	0.0079 U	NA	NA	0.0084 U	0.036 U	NA
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	*131-11-3*	--	--	0.0066 U	NA	NA	0.007 U	0.03 U	NA
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	0.0060 U	NA	NA	0.0064 U	0.027 U	NA
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA	NA	NA	NA	NA	NA
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	ND	NA	NA	ND	ND	NA
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	0.012 U	NA	NA	0.012 U	0.052 U	NA
2,6-Dinitrotoluene	*606-20-2*	--	--	0.019 U	NA	NA	0.02 U	0.084 U	NA
Di-n-octyl phthalate	*117-84-0*	--	--	0.0092 U	NA	NA	0.0098 U	0.042 U	NA
1,4-Dioxane	*123-91-1*	--	--	0.025 U	NA	NA	0.026 U	0.11 U	NA
Fluoranthene	*206-44-0*	*122*	--	0.028 J	0.023 U	NA	0.018 U	1.4	NA
Fluorene	*86-73-7*	*122*	--	0.025 J	0.029 U	NA	0.018 U	0.077 U	NA
Hexachlorobenzene	*118-74-1*	*0.199*	--	0.0094 U	NA	NA	0.01 U	0.042 U	NA
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	0.015 U	NA	NA	0.016 U	0.067 U	NA
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	0.015 U	NA	NA	0.016 U	0.067 U	NA
Hexachloroethane	*67-72-1*	*0.596*	--	0.018 U	NA	NA	0.019 U	0.083 U	NA
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	0.061	ND	NA	ND	**7.91**	NA
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	0.017 U	0.06 U	NA	0.018 U	0.91	NA
Isophorone	*78-59-1*	*139*	--	0.0079 U	NA	NA	0.0084 U	0.036 U	NA
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	7.214	9.5	ND	ND	2.16	ND
2-Methylnaphthalene	*91-57-6*	*3.24*	--	**3.6**	NA	NA	0.0089 U	0.038 U	NA
2-Methylphenol	*95-48-7*	--	--	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	*65794-96-9*	--	--	NA	NA	NA	NA	NA	NA
Naphthalene	*91-20-3*	*0.0994*	--	**3.5**	**9.5**	0.00099 U	0.011 U	0.02	0.00098 U
2-Nitroaniline	*88-74-4*	--	--	0.0088 U	NA	NA	0.0093 U	0.039 U	NA
3-Nitroaniline	*99-09-2*	--	--	0.0093 U	NA	NA	0.0098 U	0.042 U	NA
4-Nitroaniline	*100-01-6*	--	--	0.0096 U	NA	NA	0.01 U	0.043 U	NA
Nitrobenzene	*98-95-3*	*1.31*	--	0.014 U	NA	NA	0.015 U	0.065 U	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P17:9'		P18:4-4 1/2'		P19:5'		P20:5'		P22:0-6		P28:3 1/2'	
			Date Sampled:	4/28/2017		5/9/2017		5/8/2017		5/8/2017		5/8/2017		5/9/2017	
			Depth (ft):	9-9		4-4.5		5-5		5-5		0-0.5		3.5-3.5	
			LAB Sample ID:	JC42231-20		JC42929-34R		JC42929-13R		JC42929-22R		JC42929-49R		JC42929-47	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
2-Nitrophenol	*88-75-5*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA		NA		NA		NA		NA		NA	
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	0.011	U	NA		NA		0.011	U	0.048	U	NA	
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	0.014	U	NA		NA		0.014	U	0.061	U	NA	
p-Chloroaniline	*106-47-8*	--	--	0.013	U	NA		NA		0.014	U	0.06	U	NA	
p-Chloro-m-cresol	*59-50-7*	--	--	NA		NA		NA		NA		NA		NA	
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA		NA		NA		NA		NA		NA	
Phenanthrene	*85-01-8*	*45.7*	--	0.044		0.023	U	NA		0.013	U	0.6		NA	
Phenol	*108-95-2*	*30*	*120*	NA		NA		NA		NA		NA		NA	
Pyrene	*129-00-0*	*78.5*	--	0.027	J	0.031	U	NA		0.013	U	1.6		NA	
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	0.0094	U	NA		NA		0.01	U	0.042	U	NA	
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA		NA		NA		NA		NA		NA	
Total PAHs	*130498-29-2*	--	--	7.275		9.5		ND		ND		10.07		ND	
Total PCBs	*1336-36-3*	*0.000332*	*40*	ND		NA		NA		ND		ND		NA	
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA		NA		NA		NA		NA		NA	
Total SVOC TIC	*SRP171*	--	--	49.5	J	NA		NA		0.85	J	33.6	J	NA	
Total VOC and SVOC TICs	*SRP351*	--	--	83.4		NA		NA		0.85		33.6		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P30:6 1/2-7'	P30:8'	P30:17-18'	P30:21'	P31:6 1/2'	P31:9'
			Date Sampled:	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017
			Depth (ft):	6.5-7	8-8	17-18	21-21	6.5-6.5	9-9
			LAB Sample ID:	JC42929-36	JC42929-37	JC42929-38	JC42929-39	JC42929-41	JC42929-42
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acenaphthene	*83-32-9*	*20*	--	NA	NA	NA	NA	NA	NA
Acenaphthylene	*208-96-8*	*682*	--	NA	NA	NA	NA	NA	NA
Acetophenone	*98-86-2*	--	--	NA	NA	NA	NA	NA	NA
Anthracene	*120-12-7*	*1480*	--	NA	NA	NA	NA	NA	NA
Aroclor 1016	*12674-11-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	*11104-28-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	*11141-16-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	*53469-21-9*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	*12672-29-6*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	*11097-69-1*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	*11096-82-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1262	*37324-23-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1268	*11100-14-4*	--	--	NA	NA	NA	NA	NA	NA
Atrazine	*1912-24-9*	--	--	NA	NA	NA	NA	NA	NA
Benzaldehyde	*100-52-7*	--	--	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	*92-52-4*	*60*	--	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA	NA	NA	NA	NA	NA
Caprolactam	*105-60-2*	--	--	NA	NA	NA	NA	NA	NA
Carbazole	*86-74-8*	--	--	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*95-57-8*	*0.243*	--	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA	NA	NA	NA	NA	NA
Chrysene	*218-01-9*	*4.73*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P30:6 1/2-7'		P30:8'		P30:17-18'		P30:21'		P31:6 1/2'		P31:9'	
			Date Sampled:	5/9/2017		5/9/2017		5/9/2017		5/9/2017		5/9/2017		5/9/2017	
			Depth (ft):	6.5-7		8-8		17-18		21-21		6.5-6.5		9-9	
			LAB Sample ID:	JC42929-36		JC42929-37		JC42929-38		JC42929-39		JC42929-41		JC42929-42	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA		NA		NA		NA		NA		NA	
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	NA		NA		NA		NA		NA		NA	
Fluorene	*86-73-7*	*122*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA		NA		NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA		NA		NA		NA		NA		NA	
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	0.0083		12.4		ND		ND		0.027		0.79	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	0.0083		**12.4**		0.0012	U	0.0011	U	0.027		**0.79**	
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P30:6 1/2-7'	P30:8'	P30:17-18'	P30:21'	P31:6 1/2'	P31:9'
			Date Sampled:	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017
			Depth (ft):	6.5-7	8-8	17-18	21-21	6.5-6.5	9-9
			LAB Sample ID:	JC42929-36	JC42929-37	JC42929-38	JC42929-39	JC42929-41	JC42929-42
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	NA	NA	NA	NA	NA	NA
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	0.0083	12.4	ND	ND	0.027	0.79
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P32:4 1/2'	P32:15'	P33:4 1/2'	P33:15'	P34:16'	P35:5 1/2-6'
			Date Sampled:	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017
			Depth (ft):	4.5-4.5	15-15	4.5-4.5	16-16	16-16	5.5-6
			LAB Sample ID:	JC42231-7	JC42231-8	JC42231-14	JC42231-15	JC42231-13	JC42231-11
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acenaphthene	*83-32-9*	*20*	--	NA	NA	NA	NA	NA	NA
Acenaphthylene	*208-96-8*	*682*	--	NA	NA	NA	NA	NA	NA
Acetophenone	*98-86-2*	--	--	NA	NA	NA	NA	NA	NA
Anthracene	*120-12-7*	*1480*	--	NA	NA	NA	NA	NA	NA
Aroclor 1016	*12674-11-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	*11104-28-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	*11141-16-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	*53469-21-9*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	*12672-29-6*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	*11097-69-1*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	*11096-82-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1262	*37324-23-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1268	*11100-14-4*	--	--	NA	NA	NA	NA	NA	NA
Atrazine	*1912-24-9*	--	--	NA	NA	NA	NA	NA	NA
Benzaldehyde	*100-52-7*	--	--	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	*92-52-4*	*60*	--	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA	NA	NA	NA	NA	NA
Caprolactam	*105-60-2*	--	--	NA	NA	NA	NA	NA	NA
Carbazole	*86-74-8*	--	--	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*95-57-8*	*0.243*	--	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA	NA	NA	NA	NA	NA
Chrysene	*218-01-9*	*4.73*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P32:4 1/2'		P32:15'		P33:4 1/2'		P33:15'		P34:16'		P35:5 1/2-6'	
			Date Sampled:	4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/28/2017	
			Depth (ft):	4.5-4.5		15-15		4.5-4.5		16-16		16-16		5.5-6	
			LAB Sample ID:	JC42231-7		JC42231-8		JC42231-14		JC42231-15		JC42231-13		JC42231-11	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA		NA		NA		NA		NA		NA	
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	NA		NA		NA		NA		NA		NA	
Fluorene	*86-73-7*	*122*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA		NA		NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA		NA		NA		NA		NA		NA	
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	ND		ND		ND		ND		0.0012		0.1	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	0.00079	U	0.00085	U	0.0012	U	0.0010	U	0.0012	J	**0.1**	
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P32:4 1/2'	P32:15'	P33:4 1/2'	P33:15'	P34:16'	P35:5 1/2-6'
			Date Sampled:	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017
			Depth (ft):	4.5-4.5	15-15	4.5-4.5	16-16	16-16	5.5-6
			LAB Sample ID:	JC42231-7	JC42231-8	JC42231-14	JC42231-15	JC42231-13	JC42231-11
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	NA	NA	NA	NA	NA	NA
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	ND	ND	ND	ND	0.0012	0.1
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P35:7-7 1/2'	P36:6'	P36:12'	P37:3'	P37:7'	P38:3'
			Date Sampled:	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017
			Depth (ft):	7-7.5	6-6	12-12	3-3	7-7	3-3
			LAB Sample ID:	JC42231-12	JC42231-9	JC42231-10	JC42231-1	JC42231-2	JC42231-3
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acenaphthene	*83-32-9*	*20*	--	NA	NA	NA	NA	NA	NA
Acenaphthylene	*208-96-8*	*682*	--	NA	NA	NA	NA	NA	NA
Acetophenone	*98-86-2*	--	--	NA	NA	NA	NA	NA	NA
Anthracene	*120-12-7*	*1480*	--	NA	NA	NA	NA	NA	NA
Aroclor 1016	*12674-11-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	*11104-28-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	*11141-16-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	*53469-21-9*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	*12672-29-6*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	*11097-69-1*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	*11096-82-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1262	*37324-23-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1268	*11100-14-4*	--	--	NA	NA	NA	NA	NA	NA
Atrazine	*1912-24-9*	--	--	NA	NA	NA	NA	NA	NA
Benzaldehyde	*100-52-7*	--	--	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	*92-52-4*	*60*	--	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA	NA	NA	NA	NA	NA
Caprolactam	*105-60-2*	--	--	NA	NA	NA	NA	NA	NA
Carbazole	*86-74-8*	--	--	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*95-57-8*	*0.243*	--	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA	NA	NA	NA	NA	NA
Chrysene	*218-01-9*	*4.73*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P35:7-7 1/2'		P36:6'		P36:12'		P37:3'		P37:7'		P38:3'	
			Date Sampled:	4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/28/2017	
			Depth (ft):	7-7.5		6-6		12-12		3-3		7-7		3-3	
			LAB Sample ID:	JC42231-12		JC42231-9		JC42231-10		JC42231-1		JC42231-2		JC42231-3	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA		NA		NA		NA		NA		NA	
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	NA		NA		NA		NA		NA		NA	
Fluorene	*86-73-7*	*122*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA		NA		NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA		NA		NA		NA		NA		NA	
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	0.11		0.0053		ND		0.064		ND		1.1	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	**0.11**		0.0053		0.0011	U	0.064		0.00085	U	**1.1**	
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P35:7-7 1/2'	P36:6'	P36:12'	P37:3'	P37:7'	P38:3'
			Date Sampled:	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017
			Depth (ft):	7-7.5	6-6	12-12	3-3	7-7	3-3
			LAB Sample ID:	JC42231-12	JC42231-9	JC42231-10	JC42231-1	JC42231-2	JC42231-3
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	NA	NA	NA	NA	NA	NA
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	0.11	0.0053	ND	0.064	ND	1.1
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P38:8'	P38:13'	P38:18'	P39:15'	P40:6'	P40:15'
			Date Sampled:	4/28/2017	4/28/2017	4/28/2017	4/27/2017	5/8/2017	5/8/2017
			Depth (ft):	8-8	13-13	18-18	15-15	6-6	15-15
			LAB Sample ID:	JC42231-4	JC42231-5	JC42231-6	JC42109-10	JC42929-15	JC42929-16
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acenaphthene	*83-32-9*	*20*	--	NA	NA	NA	NA	NA	NA
Acenaphthylene	*208-96-8*	*682*	--	NA	NA	NA	NA	NA	NA
Acetophenone	*98-86-2*	--	--	NA	NA	NA	NA	NA	NA
Anthracene	*120-12-7*	*1480*	--	NA	NA	NA	NA	NA	NA
Aroclor 1016	*12674-11-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	*11104-28-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	*11141-16-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	*53469-21-9*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	*12672-29-6*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	*11097-69-1*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	*11096-82-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1262	*37324-23-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1268	*11100-14-4*	--	--	NA	NA	NA	NA	NA	NA
Atrazine	*1912-24-9*	--	--	NA	NA	NA	NA	NA	NA
Benzaldehyde	*100-52-7*	--	--	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	*92-52-4*	*60*	--	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA	NA	NA	NA	NA	NA
Caprolactam	*105-60-2*	--	--	NA	NA	NA	NA	NA	NA
Carbazole	*86-74-8*	--	--	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*95-57-8*	*0.243*	--	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA	NA	NA	NA	NA	NA
Chrysene	*218-01-9*	*4.73*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P38:8'	P38:13'	P38:18'	P39:15'	P40:6'	P40:15'
			Date Sampled:	4/28/2017	4/28/2017	4/28/2017	4/27/2017	5/8/2017	5/8/2017
			Depth (ft):	8-8	13-13	18-18	15-15	6-6	15-15
			LAB Sample ID:	JC42231-4	JC42231-5	JC42231-6	JC42109-10	JC42929-15	JC42929-16
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA	NA	NA	NA	NA	NA
Dibenzofuran	*132-64-9*	--	--	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA	NA	NA	NA	NA	NA
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA	NA	NA	NA	NA	NA
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	*131-11-3*	--	--	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA	NA	NA	NA	NA	NA
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*606-20-2*	--	--	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	*117-84-0*	--	--	NA	NA	NA	NA	NA	NA
1,4-Dioxane	*123-91-1*	--	--	NA	NA	NA	NA	NA	NA
Fluoranthene	*206-44-0*	*122*	--	NA	NA	NA	NA	NA	NA
Fluorene	*86-73-7*	*122*	--	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA	NA	NA	NA	NA	NA
Hexachloroethane	*67-72-1*	*0.596*	--	NA	NA	NA	NA	NA	NA
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA	NA	NA	NA	NA	NA
Isophorone	*78-59-1*	*139*	--	NA	NA	NA	NA	NA	NA
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	3.4	24.4	0.024	0.00092	ND	0.02
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA	NA	NA	NA	NA	NA
2-Methylphenol	*95-48-7*	--	--	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	*65794-96-9*	--	--	NA	NA	NA	NA	NA	NA
Naphthalene	*91-20-3*	*0.0994*	--	**3.4**	**24.4**	0.024	0.00092 J	0.00095 U	0.02
2-Nitroaniline	*88-74-4*	--	--	NA	NA	NA	NA	NA	NA
3-Nitroaniline	*99-09-2*	--	--	NA	NA	NA	NA	NA	NA
4-Nitroaniline	*100-01-6*	--	--	NA	NA	NA	NA	NA	NA
Nitrobenzene	*98-95-3*	*1.31*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P38:8'	P38:13'	P38:18'	P39:15'	P40:6'	P40:15'
			Date Sampled:	4/28/2017	4/28/2017	4/28/2017	4/27/2017	5/8/2017	5/8/2017
			Depth (ft):	8-8	13-13	18-18	15-15	6-6	15-15
			LAB Sample ID:	JC42231-4	JC42231-5	JC42231-6	JC42109-10	JC42929-15	JC42929-16
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	NA	NA	NA	NA	NA	NA
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	3.4	24.4	0.024	0.00092	ND	0.02
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P41:5'	P41:10'	P42:6'	P42:8'	P43:1'	P43:2'
			Date Sampled:	5/8/2017	5/8/2017	5/8/2017	5/8/2017	4/27/2017	4/27/2017
			Depth (ft):	5-5	10-10	6-6	8-8	1-1	2-2
			LAB Sample ID:	JC42929-17	JC42929-18	JC42929-19	JC42929-20	JC42109-14	JC42109-15
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acenaphthene	*83-32-9*	*20*	--	NA	NA	NA	NA	NA	NA
Acenaphthylene	*208-96-8*	*682*	--	NA	NA	NA	NA	NA	NA
Acetophenone	*98-86-2*	--	--	NA	NA	NA	NA	NA	NA
Anthracene	*120-12-7*	*1480*	--	NA	NA	NA	NA	NA	NA
Aroclor 1016	*12674-11-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	*11104-28-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	*11141-16-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	*53469-21-9*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	*12672-29-6*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	*11097-69-1*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	*11096-82-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1262	*37324-23-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1268	*11100-14-4*	--	--	NA	NA	NA	NA	NA	NA
Atrazine	*1912-24-9*	--	--	NA	NA	NA	NA	NA	NA
Benzaldehyde	*100-52-7*	--	--	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	*92-52-4*	*60*	--	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA	NA	NA	NA	NA	NA
Caprolactam	*105-60-2*	--	--	NA	NA	NA	NA	NA	NA
Carbazole	*86-74-8*	--	--	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*95-57-8*	*0.243*	--	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA	NA	NA	NA	NA	NA
Chrysene	*218-01-9*	*4.73*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P41:5'	P41:10'	P42:6'	P42:8'	P43:1'	P43:2'
			Date Sampled:	5/8/2017	5/8/2017	5/8/2017	5/8/2017	4/27/2017	4/27/2017
			Depth (ft):	5-5	10-10	6-6	8-8	1-1	2-2
			LAB Sample ID:	JC42929-17	JC42929-18	JC42929-19	JC42929-20	JC42109-14	JC42109-15
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA	NA	NA	NA	NA	NA
Dibenzofuran	*132-64-9*	--	--	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA	NA	NA	NA	NA	NA
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA	NA	NA	NA	NA	NA
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	*131-11-3*	--	--	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA	NA	NA	NA	NA	NA
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*606-20-2*	--	--	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	*117-84-0*	--	--	NA	NA	NA	NA	NA	NA
1,4-Dioxane	*123-91-1*	--	--	NA	NA	NA	NA	NA	NA
Fluoranthene	*206-44-0*	*122*	--	NA	NA	NA	NA	NA	NA
Fluorene	*86-73-7*	*122*	--	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA	NA	NA	NA	NA	NA
Hexachloroethane	*67-72-1*	*0.596*	--	NA	NA	NA	NA	NA	NA
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA	NA	NA	NA	NA	NA
Isophorone	*78-59-1*	*139*	--	NA	NA	NA	NA	NA	NA
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	0.014	9.1	ND	ND	**<u>152</u>**	4
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA	NA	NA	NA	NA	NA
2-Methylphenol	*95-48-7*	--	--	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	*65794-96-9*	--	--	NA	NA	NA	NA	NA	NA
Naphthalene	*91-20-3*	*0.0994*	--	0.014	**9.1**	0.0010 U	0.00095 U	**152**	**4**
2-Nitroaniline	*88-74-4*	--	--	NA	NA	NA	NA	NA	NA
3-Nitroaniline	*99-09-2*	--	--	NA	NA	NA	NA	NA	NA
4-Nitroaniline	*100-01-6*	--	--	NA	NA	NA	NA	NA	NA
Nitrobenzene	*98-95-3*	*1.31*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P41:5'	P41:10'	P42:6'	P42:8'	P43:1'	P43:2'
			Date Sampled:	5/8/2017	5/8/2017	5/8/2017	5/8/2017	4/27/2017	4/27/2017
			Depth (ft):	5-5	10-10	6-6	8-8	1-1	2-2
			LAB Sample ID:	JC42929-17	JC42929-18	JC42929-19	JC42929-20	JC42109-14	JC42109-15
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	NA	NA	NA	NA	NA	NA
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	0.014	9.1	ND	ND	152	4
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P43:6'	P44:3'	P44:7-7 1/2'	P45:5 1/2-6'	P45:12-12 1/2'	P46:6-6 1/2'
			Date Sampled:	4/27/2017	4/28/2017	4/28/2017	4/27/2017	4/27/2017	5/9/2017
			Depth (ft):	6-6	3-3	7-7.5	5.5-6	12-12.5	6-6.5
			LAB Sample ID:	JC42109-16	JC42231-16	JC42231-17	JC42109-11	JC42109-12	JC42929-40
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acenaphthene	*83-32-9*	*20*	--	NA	NA	NA	NA	NA	NA
Acenaphthylene	*208-96-8*	*682*	--	NA	NA	NA	NA	NA	NA
Acetophenone	*98-86-2*	--	--	NA	NA	NA	NA	NA	NA
Anthracene	*120-12-7*	*1480*	--	NA	NA	NA	NA	NA	NA
Aroclor 1016	*12674-11-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	*11104-28-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	*11141-16-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	*53469-21-9*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	*12672-29-6*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	*11097-69-1*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	*11096-82-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1262	*37324-23-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1268	*11100-14-4*	--	--	NA	NA	NA	NA	NA	NA
Atrazine	*1912-24-9*	--	--	NA	NA	NA	NA	NA	NA
Benzaldehyde	*100-52-7*	--	--	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	*92-52-4*	*60*	--	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA	NA	NA	NA	NA	NA
Caprolactam	*105-60-2*	--	--	NA	NA	NA	NA	NA	NA
Carbazole	*86-74-8*	--	--	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*95-57-8*	*0.243*	--	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA	NA	NA	NA	NA	NA
Chrysene	*218-01-9*	*4.73*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P43:6'	P44:3'	P44:7-7 1/2'	P45:5 1/2-6'	P45:12-12 1/2'	P46:6-6 1/2'
			Date Sampled:	4/27/2017	4/28/2017	4/28/2017	4/27/2017	4/27/2017	5/9/2017
			Depth (ft):	6-6	3-3	7-7.5	5.5-6	12-12.5	6-6.5
			LAB Sample ID:	JC42109-16	JC42231-16	JC42231-17	JC42109-11	JC42109-12	JC42929-40
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA	NA	NA	NA	NA	NA
Dibenzofuran	*132-64-9*	--	--	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA	NA	NA	NA	NA	NA
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA	NA	NA	NA	NA	NA
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	*131-11-3*	--	--	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA	NA	NA	NA	NA	NA
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*606-20-2*	--	--	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	*117-84-0*	--	--	NA	NA	NA	NA	NA	NA
1,4-Dioxane	*123-91-1*	--	--	NA	NA	NA	NA	NA	NA
Fluoranthene	*206-44-0*	*122*	--	NA	NA	NA	NA	NA	NA
Fluorene	*86-73-7*	*122*	--	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA	NA	NA	NA	NA	NA
Hexachloroethane	*67-72-1*	*0.596*	--	NA	NA	NA	NA	NA	NA
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA	NA	NA	NA	NA	NA
Isophorone	*78-59-1*	*139*	--	NA	NA	NA	NA	NA	NA
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	2.7	**96.7**	0.048	ND	ND	0.0012
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA	NA	NA	NA	NA	NA
2-Methylphenol	*95-48-7*	--	--	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	*65794-96-9*	--	--	NA	NA	NA	NA	NA	NA
Naphthalene	*91-20-3*	*0.0994*	--	**2.7**	**96.7**	0.048	0.00089 U	0.00098 U	0.0012 J
2-Nitroaniline	*88-74-4*	--	--	NA	NA	NA	NA	NA	NA
3-Nitroaniline	*99-09-2*	--	--	NA	NA	NA	NA	NA	NA
4-Nitroaniline	*100-01-6*	--	--	NA	NA	NA	NA	NA	NA
Nitrobenzene	*98-95-3*	*1.31*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P43:6'	P44:3'	P44:7-7 1/2'	P45:5 1/2-6'	P45:12-12 1/2'	P46:6-6 1/2'
			Date Sampled:	4/27/2017	4/28/2017	4/28/2017	4/27/2017	4/27/2017	5/9/2017
			Depth (ft):	6-6	3-3	7-7.5	5.5-6	12-12.5	6-6.5
			LAB Sample ID:	JC42109-16	JC42231-16	JC42231-17	JC42109-11	JC42109-12	JC42929-40
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	NA	NA	NA	NA	NA	NA
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	2.7	96.7	0.048	ND	ND	0.0012
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P47:6-6 1/2'	P48:1-1 1/2'	P48:7 1/2-8'	P48:20'	P49: 4 1/2-5'	P50: 4-4 1/2'
			Date Sampled:	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/3/2017	10/3/2017
			Depth (ft):	6-6.5	1-1.5	7.5-8	20-20	4.5-5	4-4.5
			LAB Sample ID:	JC52433-8	JC52433-5	JC52433-6	JC52433-7	JC52345-1	JC52345-2
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acenaphthene	*83-32-9*	*20*	--	NA	NA	NA	NA	NA	NA
Acenaphthylene	*208-96-8*	*682*	--	NA	NA	NA	NA	NA	NA
Acetophenone	*98-86-2*	--	--	NA	NA	NA	NA	NA	NA
Anthracene	*120-12-7*	*1480*	--	NA	NA	NA	NA	NA	NA
Aroclor 1016	*12674-11-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	*11104-28-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	*11141-16-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	*53469-21-9*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	*12672-29-6*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	*11097-69-1*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	*11096-82-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1262	*37324-23-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1268	*11100-14-4*	--	--	NA	NA	NA	NA	NA	NA
Atrazine	*1912-24-9*	--	--	NA	NA	NA	NA	NA	NA
Benzaldehyde	*100-52-7*	--	--	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	*92-52-4*	*60*	--	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA	NA	NA	NA	NA	NA
Caprolactam	*105-60-2*	--	--	NA	NA	NA	NA	NA	NA
Carbazole	*86-74-8*	--	--	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*95-57-8*	*0.243*	--	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA	NA	NA	NA	NA	NA
Chrysene	*218-01-9*	*4.73*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P47:6-6 1/2'		P48:1-1 1/2'		P48:7 1/2-8'		P48:20'		P49: 4 1/2-5'		P50: 4-4 1/2'	
			Date Sampled:	10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/3/2017		10/3/2017	
			Depth (ft):	6-6.5		1-1.5		7.5-8		20-20		4.5-5		4-4.5	
			LAB Sample ID:	JC52433-8		JC52433-5		JC52433-6		JC52433-7		JC52345-1		JC52345-2	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA		NA		NA		NA		NA		NA	
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	NA		NA		NA		NA		NA		NA	
Fluorene	*86-73-7*	*122*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA		NA		NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA		NA		NA		NA		NA		NA	
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	0.0021	U	0.0019	U	0.0022	U	0.0021	U	0.0016	U	0.0017	U
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P47:6-6 1/2'	P48:1-1 1/2'	P48:7 1/2-8'	P48:20'	P49: 4 1/2-5'	P50: 4-4 1/2'
			Date Sampled:	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/3/2017	10/3/2017
			Depth (ft):	6-6.5	1-1.5	7.5-8	20-20	4.5-5	4-4.5
			LAB Sample ID:	JC52433-8	JC52433-5	JC52433-6	JC52433-7	JC52345-1	JC52345-2
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	NA	NA	NA	NA	NA	NA
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	ND	ND	ND	ND	ND	ND
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P51:2 1/2-3'	P51:3 1/2-4'	P52: 0-1/2'	P52: 7-8'	P53: 4-4 1/2'	P54: 0-1/2'
			Date Sampled:	10/4/2017	10/4/2017	10/3/2017	10/3/2017	10/3/2017	10/3/2017
			Depth (ft):	2.5-3	3.5-4	0-0.5	7-8	4-4.5	0-0.5
			LAB Sample ID:	JC52433-1	JC52433-2	JC52345-17	JC52345-18	JC52345-10	JC52345-34
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acenaphthene	*83-32-9*	*20*	--	NA	NA	NA	NA	NA	NA
Acenaphthylene	*208-96-8*	*682*	--	NA	NA	NA	NA	NA	NA
Acetophenone	*98-86-2*	--	--	NA	NA	NA	NA	NA	NA
Anthracene	*120-12-7*	*1480*	--	NA	NA	NA	NA	NA	NA
Aroclor 1016	*12674-11-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	*11104-28-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	*11141-16-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	*53469-21-9*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	*12672-29-6*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	*11097-69-1*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	*11096-82-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1262	*37324-23-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1268	*11100-14-4*	--	--	NA	NA	NA	NA	NA	NA
Atrazine	*1912-24-9*	--	--	NA	NA	NA	NA	NA	NA
Benzaldehyde	*100-52-7*	--	--	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	*92-52-4*	*60*	--	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA	NA	NA	NA	NA	NA
Caprolactam	*105-60-2*	--	--	NA	NA	NA	NA	NA	NA
Carbazole	*86-74-8*	--	--	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*95-57-8*	*0.243*	--	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA	NA	NA	NA	NA	NA
Chrysene	*218-01-9*	*4.73*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P51:2 1/2-3'	P51:3 1/2-4'	P52: 0-1/2'	P52: 7-8'	P53: 4-4 1/2'	P54: 0-1/2'
			Date Sampled:	10/4/2017	10/4/2017	10/3/2017	10/3/2017	10/3/2017	10/3/2017
			Depth (ft):	2.5-3	3.5-4	0-0.5	7-8	4-4.5	0-0.5
			LAB Sample ID:	JC52433-1	JC52433-2	JC52345-17	JC52345-18	JC52345-10	JC52345-34
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA	NA	NA	NA	NA	NA
Dibenzofuran	*132-64-9*	--	--	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA	NA	NA	NA	NA	NA
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA	NA	NA	NA	NA	NA
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	*131-11-3*	--	--	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA	NA	NA	NA	NA	NA
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*606-20-2*	--	--	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	*117-84-0*	--	--	NA	NA	NA	NA	NA	NA
1,4-Dioxane	*123-91-1*	--	--	NA	NA	NA	NA	NA	NA
Fluoranthene	*206-44-0*	*122*	--	NA	NA	NA	NA	NA	NA
Fluorene	*86-73-7*	*122*	--	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA	NA	NA	NA	NA	NA
Hexachloroethane	*67-72-1*	*0.596*	--	NA	NA	NA	NA	NA	NA
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA	NA	NA	NA	NA	NA
Isophorone	*78-59-1*	*139*	--	NA	NA	NA	NA	NA	NA
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	**32.5**	25.8	ND	ND	ND	ND
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA	NA	NA	NA	NA	NA
2-Methylphenol	*95-48-7*	--	--	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	*65794-96-9*	--	--	NA	NA	NA	NA	NA	NA
Naphthalene	*91-20-3*	*0.0994*	--	**32.5**	**25.8**	0.3 U	0.0019 U	0.0013 U	0.0046 U
2-Nitroaniline	*88-74-4*	--	--	NA	NA	NA	NA	NA	NA
3-Nitroaniline	*99-09-2*	--	--	NA	NA	NA	NA	NA	NA
4-Nitroaniline	*100-01-6*	--	--	NA	NA	NA	NA	NA	NA
Nitrobenzene	*98-95-3*	*1.31*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P51:2 1/2-3'	P51:3 1/2-4'	P52: 0-1/2'	P52: 7-8'	P53: 4-4 1/2'	P54: 0-1/2'
			Date Sampled:	10/4/2017	10/4/2017	10/3/2017	10/3/2017	10/3/2017	10/3/2017
			Depth (ft):	2.5-3	3.5-4	0-0.5	7-8	4-4.5	0-0.5
			LAB Sample ID:	JC52433-1	JC52433-2	JC52345-17	JC52345-18	JC52345-10	JC52345-34
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	NA	NA	NA	NA	NA	NA
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	32.5	25.8	ND	ND	ND	ND
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P54: 1/2-1'		P55: 0-4		P56: 3-3 1/2'		P57: 3 1/2-4'		P58:0-1/2'		P58:1 1/2-2'	
			Date Sampled:	10/3/2017		10/3/2017		10/3/2017		10/3/2017		10/4/2017		10/4/2017	
			Depth (ft):	0.5-1		0-0.33		3-3.5		3.5-4		0-0.5		1.5-2	
			LAB Sample ID:	JC52345-35		JC52345-36		JC52345-3		JC52345-4		JC52433-9		JC52433-10	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	0.062		0.023	J	NA		NA		**27.9**		0.19	
Acenaphthylene	*208-96-8*	*682*	--	0.048		0.038	J	NA		NA		1.3		0.017	U
Acetophenone	*98-86-2*	--	--	NA		NA		NA		NA		NA		NA	
Anthracene	*120-12-7*	*1480*	--	0.17		0.07		NA		NA		72.7		0.4	
Aroclor 1016	*12674-11-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1221	*11104-28-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1232	*11141-16-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1242	*53469-21-9*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1248	*12672-29-6*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1254	*11097-69-1*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1260	*11096-82-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1262	*37324-23-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1268	*11100-14-4*	--	--	NA		NA		NA		NA		NA		NA	
Atrazine	*1912-24-9*	--	--	NA		NA		NA		NA		NA		NA	
Benzaldehyde	*100-52-7*	--	--	NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	**1.7**		0.44		NA		NA		**236**		0.71	
Benzo(a)anthracene	*56-55-3*	*5.21*	--	1		0.28		NA		NA		**233**		0.65	
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	1.9		0.49		NA		NA		**281**		0.69	
Benzo(ghi)perylene	*191-24-2*	*119*	--	1.4		0.35		NA		NA		**167**		0.55	
Benzo(k)fluoranthene	*207-08-9*	*148*	--	0.72		0.2		NA		NA		65.3		0.27	
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		NA		NA		NA		NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		NA		NA		NA		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		NA		NA		NA		NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		NA		NA		NA		NA	
Caprolactam	*105-60-2*	--	--	NA		NA		NA		NA		NA		NA	
Carbazole	*86-74-8*	--	--	NA		NA		NA		NA		NA		NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		NA		NA		NA		NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		NA		NA		NA		NA	
Chrysene	*218-01-9*	*4.73*	--	1.3		0.36		NA		NA		**249**		0.65	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P54: 1/2-1'		P55: 0-4		P56: 3-3 1/2'		P57: 3 1/2-4'		P58:0-1/2'		P58:1 1/2-2'	
			Date Sampled:	10/3/2017		10/3/2017		10/3/2017		10/3/2017		10/4/2017		10/4/2017	
			Depth (ft):	0.5-1		0-0.33		3-3.5		3.5-4		0-0.5		1.5-2	
			LAB Sample ID:	JC52345-35		JC52345-36		JC52345-3		JC52345-4		JC52433-9		JC52433-10	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	0.28		0.073		NA		NA		**48.1**		0.094	
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	1.2		0.38		NA		NA		**643**		1.9	
Fluorene	*86-73-7*	*122*	--	0.042	J	0.018	U	NA		NA		21.6		0.16	
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	**12.2**		**3.353**		NA		NA		**1990.4**		**5.854**	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	1.3		0.32		NA		NA		**136**		0.44	
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	2.304		0.755		ND		ND		**1204.3**		4.61	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	0.042	J	0.024	J	0.0017	U	0.002	U	**14.8**		**0.26**	
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P54: 1/2-1'	P55: 0-4	P56: 3-3 1/2'	P57: 3 1/2-4'	P58:0-1/2'	P58:1 1/2-2'
			Date Sampled:	10/3/2017	10/3/2017	10/3/2017	10/3/2017	10/4/2017	10/4/2017
			Depth (ft):	0.5-1	0-0.33	3-3.5	3.5-4	0-0.5	1.5-2
			LAB Sample ID:	JC52345-35	JC52345-36	JC52345-3	JC52345-4	JC52433-9	JC52433-10
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	0.74	0.22	NA	NA	**423**	1.7
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	2.6	0.84	NA	NA	**575**	1.8
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	14.504	4.108	ND	ND	3194.7	10.464
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P58:6-6 1/2'		P58:18-18 1/2'		P59:0-1/2'		P59:1 1/2-2'		P59:4 1/2-5'		P59:9 1/2-10'	
			Date Sampled:	10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017	
			Depth (ft):	6-6.5		18-18.5		0-0.5		1.5-2		4.5-5		9.5-10	
			LAB Sample ID:	JC52433-11		JC52433-12		JC52433-14		JC52433-15		JC52433-16		JC52433-17	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	0.013	U	0.013	U	3.9		0.013	U	0.056		0.023	U
Acenaphthylene	*208-96-8*	*682*	--	0.019	U	0.018	U	0.58		0.025	J	0.019	U	0.020	U
Acetophenone	*98-86-2*	--	--	NA		NA		NA		NA		NA		NA	
Anthracene	*120-12-7*	*1480*	--	0.023	U	0.022	U	11.4		0.064		0.035	J	0.020	U
Aroclor 1016	*12674-11-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1221	*11104-28-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1232	*11141-16-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1242	*53469-21-9*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1248	*12672-29-6*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1254	*11097-69-1*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1260	*11096-82-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1262	*37324-23-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1268	*11100-14-4*	--	--	NA		NA		NA		NA		NA		NA	
Atrazine	*1912-24-9*	--	--	NA		NA		NA		NA		NA		NA	
Benzaldehyde	*100-52-7*	--	--	NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	0.017	U	0.017	U	**62.4**		0.2		0.028	J	0.035	U
Benzo(a)anthracene	*56-55-3*	*5.21*	--	0.010	U	0.010	U	**50.9**		0.19		0.037	J	0.029	U
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	0.016	U	0.016	U	**76.1**		0.22		0.03	J	0.044	U
Benzo(ghi)perylene	*191-24-2*	*119*	--	0.018	U	0.018	U	52.4		0.14		0.067		0.055	U
Benzo(k)fluoranthene	*207-08-9*	*148*	--	0.017	U	0.017	U	28.1		0.097		0.018	U	0.044	U
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		NA		NA		NA		NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		NA		NA		NA		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		NA		NA		NA		NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		NA		NA		NA		NA	
Caprolactam	*105-60-2*	--	--	NA		NA		NA		NA		NA		NA	
Carbazole	*86-74-8*	--	--	NA		NA		NA		NA		NA		NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		NA		NA		NA		NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		NA		NA		NA		NA	
Chrysene	*218-01-9*	*4.73*	--	0.012	U	0.011	U	**53.1**		0.21		0.05		0.030	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P58:6-6 1/2'	P58:18-18 1/2'	P59:0-1/2'	P59:1 1/2-2'	P59:4 1/2-5'	P59:9 1/2-10'
			Date Sampled:	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017
			Depth (ft):	6-6.5	18-18.5	0-0.5	1.5-2	4.5-5	9.5-10
			LAB Sample ID:	JC52433-11	JC52433-12	JC52433-14	JC52433-15	JC52433-16	JC52433-17
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	0.016 U	0.016 U	11.1	0.033 J	0.017 U	0.035 U
Dibenzofuran	*132-64-9*	--	--	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA	NA	NA	NA	NA	NA
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA	NA	NA	NA	NA	NA
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	*131-11-3*	--	--	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA	NA	NA	NA	NA	NA
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*606-20-2*	--	--	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	*117-84-0*	--	--	NA	NA	NA	NA	NA	NA
1,4-Dioxane	*123-91-1*	--	--	NA	NA	NA	NA	NA	NA
Fluoranthene	*206-44-0*	*122*	--	0.016 J	0.016 U	**127**	0.33	0.077	0.066 J
Fluorene	*86-73-7*	*122*	--	0.017 U	0.017 U	2.6	0.019 J	0.054	0.026 U
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA	NA	NA	NA	NA	NA
Hexachloroethane	*67-72-1*	*0.596*	--	NA	NA	NA	NA	NA	NA
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	0.016	ND	**<u>477.3</u>**	**1.65**	0.345	0.06
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	0.017 U	0.017 U	42.2	0.14	0.033 J	0.053 U
Isophorone	*78-59-1*	*139*	--	NA	NA	NA	NA	NA	NA
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	0.016	ND	**<u>197.91</u>**	0.668	18.462	2.166
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA	NA	NA	NA	NA	NA
2-Methylphenol	*95-48-7*	--	--	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	*65794-96-9*	--	--	NA	NA	NA	NA	NA	NA
Naphthalene	*91-20-3*	*0.0994*	--	0.010 U	0.010 U	**0.63**	0.010 U	**18.1**	**2.1**
2-Nitroaniline	*88-74-4*	--	--	NA	NA	NA	NA	NA	NA
3-Nitroaniline	*99-09-2*	--	--	NA	NA	NA	NA	NA	NA
4-Nitroaniline	*100-01-6*	--	--	NA	NA	NA	NA	NA	NA
Nitrobenzene	*98-95-3*	*1.31*	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P58:6-6 1/2'		P58:18-18 1/2'		P59:0-1/2'		P59:1 1/2-2'		P59:4 1/2-5'		P59:9 1/2-10'	
			Date Sampled:	10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017	
			Depth (ft):	6-6.5		18-18.5		0-0.5		1.5-2		4.5-5		9.5-10	
			LAB Sample ID:	JC52433-11		JC52433-12		JC52433-14		JC52433-15		JC52433-16		JC52433-17	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
2-Nitrophenol	*88-75-5*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA		NA		NA		NA		NA		NA	
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA		NA		NA		NA		NA		NA	
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA		NA		NA		NA		NA		NA	
p-Chloroaniline	*106-47-8*	--	--	NA		NA		NA		NA		NA		NA	
p-Chloro-m-cresol	*59-50-7*	--	--	NA		NA		NA		NA		NA		NA	
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA		NA		NA		NA		NA		NA	
Phenanthrene	*85-01-8*	*45.7*	--	0.012	U	0.012	U	**51.8**		0.23		0.14		0.020	U
Phenol	*108-95-2*	*30*	*120*	NA		NA		NA		NA		NA		NA	
Pyrene	*129-00-0*	*78.5*	--	0.016	J	0.012	U	**101**		0.42		0.1		0.06	J
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA		NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA		NA		NA		NA		NA		NA	
Total PAHs	*130498-29-2*	--	--	0.032		ND		675.21		2.318		18.807		2.226	
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA		NA		NA		NA		NA		NA	
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA		NA		NA		NA		NA		NA	
Total SVOC TIC	*SRP171*	--	--	NA		NA		NA		NA		NA		NA	
Total VOC and SVOC TICs	*SRP351*	--	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P60:0- 1/2'	P60:1 1/2-2'	P61:0-1/2'	P61:1 1/2-2'	P61:4-4 /1/2'	P61:12 1/2-13'
			Date Sampled:	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017
			Depth (ft):	0-0.5	1.5-2	0-0.5	1.5-2	4-4.5	12.5-13
			LAB Sample ID:	JC52433-18	JC52433-19	JC52433-21	JC52433-22	JC52433-23	JC52433-24
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Acenaphthene	*83-32-9*	*20*	--	NA	NA	0.71	0.038 J	0.013 U	0.012 U
Acenaphthylene	*208-96-8*	*682*	--	NA	NA	0.075	0.036 U	0.019 U	0.018 U
Acetophenone	*98-86-2*	--	--	NA	NA	NA	NA	NA	NA
Anthracene	*120-12-7*	*1480*	--	NA	NA	2.2	0.083	0.023 J	0.021 U
Aroclor 1016	*12674-11-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1221	*11104-28-2*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	*11141-16-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	*53469-21-9*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	*12672-29-6*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	*11097-69-1*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1260	*11096-82-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1262	*37324-23-5*	--	--	NA	NA	NA	NA	NA	NA
Aroclor 1268	*11100-14-4*	--	--	NA	NA	NA	NA	NA	NA
Atrazine	*1912-24-9*	--	--	NA	NA	NA	NA	NA	NA
Benzaldehyde	*100-52-7*	--	--	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA	NA	**9.4**	0.22	0.045	0.016 U
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA	NA	**8.4**	0.18	0.047	0.0099 U
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA	NA	12.1	0.37	0.063	0.015 U
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA	NA	8.1	0.3	0.048	0.017 U
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA	NA	4.5	0.11	0.022 J	0.016 U
1,1-Biphenyl	*92-52-4*	*60*	--	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA	NA	NA	NA	NA	NA
Caprolactam	*105-60-2*	--	--	NA	NA	NA	NA	NA	NA
Carbazole	*86-74-8*	--	--	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*95-57-8*	*0.243*	--	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA	NA	NA	NA	NA	NA
Chrysene	*218-01-9*	*4.73*	--	NA	NA	**9.3**	0.25	0.062	0.011 U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P60:0- 1/2'		P60:1 1/2-2'		P61:0-1/2'		P61:1 1/2-2'		P61:4-4 /1/2'		P61:12 1/2-13'	
			Date Sampled:	10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017	
			Depth (ft):	0-0.5		1.5-2		0-0.5		1.5-2		4-4.5		12.5-13	
			LAB Sample ID:	JC52433-18		JC52433-19		JC52433-21		JC52433-22		JC52433-23		JC52433-24	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA		NA		2.9		0.045	J	0.017	U	0.015	U
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	NA		NA		16.3		0.34		0.093		0.016	U
Fluorene	*86-73-7*	*122*	--	NA		NA		0.45		0.035	J	0.021	J	0.016	U
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA		NA		**81.7**		**2.205**		0.468		ND	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA		NA		8.2		0.24		0.031	J	0.016	U
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	ND		ND		**29.185**		0.812		0.467		0.016	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	0.0027	U	0.0022	U	**0.15**		0.036	J	**0.23**		0.016	J
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P60:0- 1/2'	P60:1 1/2-2'	P61:0-1/2'	P61:1 1/2-2'	P61:4-4 /1/2'	P61:12 1/2-13'
			Date Sampled:	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017
			Depth (ft):	0-0.5	1.5-2	0-0.5	1.5-2	4-4.5	12.5-13
			LAB Sample ID:	JC52433-18	JC52433-19	JC52433-21	JC52433-22	JC52433-23	JC52433-24
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	NA	NA	9.3	0.28	0.1	0.012 U
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	NA	NA	18.8	0.49	0.15	0.011 U
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	ND	ND	110.885	3.017	0.935	0.016
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P62:5 1/2-6'		P63:3-3 1/2'		P66:6-6 1/2'		P66:13 1/2-14'		P68:0-1/2'		P68:1 1/2-2'	
			Date Sampled:	10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017	
			Depth (ft):	5.5-6		3-3.5		6-6.5		13.5-14		0-0.5		1.5-2	
			LAB Sample ID:	JC52433-29		JC52433-3		JC52433-33		JC52433-34		JC52433-35		JC52433-36	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	NA		NA		0.012	U	0.014	U	0.011	U	0.012	U
Acenaphthylene	*208-96-8*	*682*	--	NA		NA		0.017	U	0.020	U	0.016	U	0.017	U
Acetophenone	*98-86-2*	--	--	NA		NA		NA		NA		NA		NA	
Anthracene	*120-12-7*	*1480*	--	NA		NA		0.021	U	0.024	U	0.020	U	0.021	U
Aroclor 1016	*12674-11-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1221	*11104-28-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1232	*11141-16-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1242	*53469-21-9*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1248	*12672-29-6*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1254	*11097-69-1*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1260	*11096-82-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1262	*37324-23-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1268	*11100-14-4*	--	--	NA		NA		NA		NA		NA		NA	
Atrazine	*1912-24-9*	--	--	NA		NA		NA		NA		NA		NA	
Benzaldehyde	*100-52-7*	--	--	NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA		NA		0.015	U	0.018	U	0.026	J	0.016	U
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA		NA		0.0096	U	0.011	U	0.023	J	0.0097	U
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA		NA		0.015	U	0.017	U	0.035		0.015	U
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA		NA		0.017	U	0.020	U	0.029	J	0.017	U
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA		NA		0.016	U	0.018	U	0.015	U	0.016	U
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		NA		NA		NA		NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		NA		NA		NA		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		NA		NA		NA		NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		NA		NA		NA		NA	
Caprolactam	*105-60-2*	--	--	NA		NA		NA		NA		NA		NA	
Carbazole	*86-74-8*	--	--	NA		NA		NA		NA		NA		NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		NA		NA		NA		NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		NA		NA		NA		NA	
Chrysene	*218-01-9*	*4.73*	--	NA		NA		0.011	U	0.012	U	0.024	J	0.011	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P62:5 1/2-6'		P63:3-3 1/2'		P66:6-6 1/2'		P66:13 1/2-14'		P68:0-1/2'		P68:1 1/2-2'	
			Date Sampled:	10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017	
			Depth (ft):	5.5-6		3-3.5		6-6.5		13.5-14		0-0.5		1.5-2	
			LAB Sample ID:	JC52433-29		JC52433-3		JC52433-33		JC52433-34		JC52433-35		JC52433-36	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA		NA		0.015	U	0.017	U	0.014	U	0.015	U
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	NA		NA		0.015	U	0.018	U	0.033		0.015	U
Fluorene	*86-73-7*	*122*	--	NA		NA		0.016	U	0.018	U	0.015	U	0.016	U
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA		NA		ND		ND		0.206		ND	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA		NA		0.016	U	0.019	U	0.024	J	0.016	U
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	ND		0.37		ND		ND		0.054		ND	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	0.0085	U	0.37		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	NA		NA		0.0096	U	0.011	U	0.0091	U	0.0096	U
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P62:5 1/2-6'		P63:3-3 1/2'		P66:6-6 1/2'		P66:13 1/2-14'		P68:0-1/2'		P68:1 1/2-2'	
			Date Sampled:	10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017	
			Depth (ft):	5.5-6		3-3.5		6-6.5		13.5-14		0-0.5		1.5-2	
			LAB Sample ID:	JC52433-29		JC52433-3		JC52433-33		JC52433-34		JC52433-35		JC52433-36	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
2-Nitrophenol	*88-75-5*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA		NA		NA		NA		NA		NA	
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA		NA		NA		NA		NA		NA	
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA		NA		NA		NA		NA		NA	
p-Chloroaniline	*106-47-8*	--	--	NA		NA		NA		NA		NA		NA	
p-Chloro-m-cresol	*59-50-7*	--	--	NA		NA		NA		NA		NA		NA	
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA		NA		NA		NA		NA		NA	
Phenanthrene	*85-01-8*	*45.7*	--	NA		NA		0.011	U	0.013	U	0.021	J	0.011	U
Phenol	*108-95-2*	*30*	*120*	NA		NA		NA		NA		NA		NA	
Pyrene	*129-00-0*	*78.5*	--	NA		NA		0.011	U	0.013	U	0.045		0.011	U
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA		NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA		NA		NA		NA		NA		NA	
Total PAHs	*130498-29-2*	--	--	ND		0.37		ND		ND		0.26		ND	
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA		NA		NA		NA		NA		NA	
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA		NA		NA		NA		NA		NA	
Total SVOC TIC	*SRP171*	--	--	NA		NA		NA		NA		NA		NA	
Total VOC and SVOC TICs	*SRP351*	--	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P68:6-6 1/2'		P68:7 1/2-8'		P69: 1-1 1/2'		P70: 3 1/2-4'		P70: 6 1/2-7'		P71: 6-6 1/2'	
			Date Sampled:	10/4/2017		10/4/2017		10/3/2017		10/3/2017		10/3/2017		10/3/2017	
			Depth (ft):	6-6.5		7.5-8		1-1.5		3.5-4		6.5-7		6-6.5	
			LAB Sample ID:	JC52433-37		JC52433-38		JC52345-32		JC52345-21		JC52345-22		JC52345-15	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	0.012	U	0.011	U	0.14	J	0.071		0.013	U	0.012	U
Acenaphthylene	*208-96-8*	*682*	--	0.018	U	0.017	U	0.025	U	0.021	U	0.019	U	0.018	U
Acetophenone	*98-86-2*	--	--	NA		NA		NA		NA		NA		NA	
Anthracene	*120-12-7*	*1480*	--	0.021	U	0.020	U	0.42		0.042	J	0.023	U	0.022	U
Aroclor 1016	*12674-11-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1221	*11104-28-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1232	*11141-16-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1242	*53469-21-9*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1248	*12672-29-6*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1254	*11097-69-1*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1260	*11096-82-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1262	*37324-23-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1268	*11100-14-4*	--	--	NA		NA		NA		NA		NA		NA	
Atrazine	*1912-24-9*	--	--	NA		NA		NA		NA		NA		NA	
Benzaldehyde	*100-52-7*	--	--	NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	0.016	U	0.015	U	**2.1**		0.073		0.017	U	0.016	U
Benzo(a)anthracene	*56-55-3*	*5.21*	--	0.0099	U	0.0094	U	2		0.068		0.011	U	0.01	U
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	0.015	U	0.015	U	2.4		0.073		0.017	U	0.016	U
Benzo(ghi)perylene	*191-24-2*	*119*	--	0.017	U	0.017	U	1.6		0.05		0.019	U	0.018	U
Benzo(k)fluoranthene	*207-08-9*	*148*	--	0.016	U	0.016	U	0.74		0.033	J	0.018	U	0.017	U
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		NA		NA		NA		NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		NA		NA		NA		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		NA		NA		NA		NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		NA		NA		NA		NA	
Caprolactam	*105-60-2*	--	--	NA		NA		NA		NA		NA		NA	
Carbazole	*86-74-8*	--	--	NA		NA		NA		NA		NA		NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		NA		NA		NA		NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		NA		NA		NA		NA	
Chrysene	*218-01-9*	*4.73*	--	0.011	U	0.010	U	2.2		0.073		0.012	U	0.011	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P68:6-6 1/2'		P68:7 1/2-8'		P69: 1-1 1/2'		P70: 3 1/2-4'		P70: 6 1/2-7'		P71: 6-6 1/2'	
			Date Sampled:	10/4/2017		10/4/2017		10/3/2017		10/3/2017		10/3/2017		10/3/2017	
			Depth (ft):	6-6.5		7.5-8		1-1.5		3.5-4		6.5-7		6-6.5	
			LAB Sample ID:	JC52433-37		JC52433-38		JC52345-32		JC52345-21		JC52345-22		JC52345-15	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	0.015	U	0.015	U	0.34		0.018	U	0.017	U	0.016	U
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	0.016	U	0.015	U	4.1		0.12		0.017	U	0.016	U
Fluorene	*86-73-7*	*122*	--	0.016	U	0.015	U	0.089	J	0.049		0.017	U	0.016	U
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	ND		0.017		**16.68**		0.752		ND		ND	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	0.016	U	0.016	U	1.3		0.042		0.018	U	0.017	U
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	0.12		1.817		6.549		**535.432**		0.019		ND	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	**0.12**		**1.8**		0.025	U	**535**		0.019	J	0.01	U
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P68:6-6 1/2'		P68:7 1/2-8'		P69: 1-1 1/2'		P70: 3 1/2-4'		P70: 6 1/2-7'		P71: 6-6 1/2'	
			Date Sampled:	10/4/2017		10/4/2017		10/3/2017		10/3/2017		10/3/2017		10/3/2017	
			Depth (ft):	6-6.5		7.5-8		1-1.5		3.5-4		6.5-7		6-6.5	
			LAB Sample ID:	JC52433-37		JC52433-38		JC52345-32		JC52345-21		JC52345-22		JC52345-15	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
2-Nitrophenol	*88-75-5*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA		NA		NA		NA		NA		NA	
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA		NA		NA		NA		NA		NA	
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA		NA		NA		NA		NA		NA	
p-Chloroaniline	*106-47-8*	--	--	NA		NA		NA		NA		NA		NA	
p-Chloro-m-cresol	*59-50-7*	--	--	NA		NA		NA		NA		NA		NA	
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA		NA		NA		NA		NA		NA	
Phenanthrene	*85-01-8*	*45.7*	--	0.012	U	0.017	J	1.8		0.15		0.013	U	0.012	U
Phenol	*108-95-2*	*30*	*120*	NA		NA		NA		NA		NA		NA	
Pyrene	*129-00-0*	*78.5*	--	0.011	U	0.017	J	4		0.34		0.012	U	0.011	U
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA		NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA		NA		NA		NA		NA		NA	
Total PAHs	*130498-29-2*	--	--	0.12		1.834		23.229		536.184		0.019		ND	
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA		NA		NA		NA		NA		NA	
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA		NA		NA		NA		NA		NA	
Total SVOC TIC	*SRP171*	--	--	NA		NA		NA		NA		NA		NA	
Total VOC and SVOC TICs	*SRP351*	--	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P71: 9-9 1/2'		P72:3 1/2-4'		P72:6 1/2-7'		P77		P77		P78:2 1/2'	
			Date Sampled:	10/3/2017		10/4/2017		10/4/2017		2/21/2018		2/21/2018		2/20/2018	
			Depth (ft):	9-9.5		3.5-4		6.5-7		2-2.5		2-2.5		2.5-2.5	
			LAB Sample ID:	JC52345-16		JC52433-40		JC52433-41		JC61183-5		JC61183-3		JC61097-1	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	0.013	U	0.33		0.028	U	NA		NA		NA	
Acenaphthylene	*208-96-8*	*682*	--	0.02	U	0.090	U	0.025	U	NA		NA		NA	
Acetophenone	*98-86-2*	--	--	NA		NA		NA		NA		NA		NA	
Anthracene	*120-12-7*	*1480*	--	0.024	U	0.62		0.025	U	NA		NA		NA	
Aroclor 1016	*12674-11-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1221	*11104-28-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1232	*11141-16-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1242	*53469-21-9*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1248	*12672-29-6*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1254	*11097-69-1*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1260	*11096-82-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1262	*37324-23-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1268	*11100-14-4*	--	--	NA		NA		NA		NA		NA		NA	
Atrazine	*1912-24-9*	--	--	NA		NA		NA		NA		NA		NA	
Benzaldehyde	*100-52-7*	--	--	NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	0.018	U	0.75		0.043	U	NA		NA		NA	
Benzo(a)anthracene	*56-55-3*	*5.21*	--	0.011	U	1		0.034	U	NA		NA		NA	
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	0.017	U	1		0.052	U	NA		NA		NA	
Benzo(ghi)perylene	*191-24-2*	*119*	--	0.019	U	0.96		0.065	U	NA		NA		NA	
Benzo(k)fluoranthene	*207-08-9*	*148*	--	0.018	U	0.38		0.052	U	NA		NA		NA	
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		NA		NA		NA		NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		NA		NA		NA		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		NA		NA		NA		NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		NA		NA		NA		NA	
Caprolactam	*105-60-2*	--	--	NA		NA		NA		NA		NA		NA	
Carbazole	*86-74-8*	--	--	NA		NA		NA		NA		NA		NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		NA		NA		NA		NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		NA		NA		NA		NA	
Chrysene	*218-01-9*	*4.73*	--	0.012	U	1.1		0.036	U	NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P71: 9-9 1/2'		P72:3 1/2-4'		P72:6 1/2-7'		P77		P77		P78:2 1/2'	
			Date Sampled:	10/3/2017		10/4/2017		10/4/2017		2/21/2018		2/21/2018		2/20/2018	
			Depth (ft):	9-9.5		3.5-4		6.5-7		2-2.5		2-2.5		2.5-2.5	
			LAB Sample ID:	JC52345-16		JC52433-40		JC52433-41		JC61183-5		JC61183-3		JC61097-1	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	0.017	U	0.18	J	0.043	U	NA		NA		NA	
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	0.017	U	1.7		0.07	J	NA		NA		NA	
Fluorene	*86-73-7*	*122*	--	0.018	U	0.67		0.031	U	NA		NA		NA	
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	ND		**8.87**		0.066		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	0.018	U	0.6		0.064	U	NA		NA		NA	
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	ND		9.72		2.11		ND		ND		ND	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	0.011	U	**3.9**		**1.9**		0.0018	U	0.0021	U	0.0021	U
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P71: 9-9 1/2'		P72:3 1/2-4'		P72:6 1/2-7'		P77		P77		P78:2 1/2'	
			Date Sampled:	10/3/2017		10/4/2017		10/4/2017		2/21/2018		2/21/2018		2/20/2018	
			Depth (ft):	9-9.5		3.5-4		6.5-7		2-2.5		2-2.5		2.5-2.5	
			LAB Sample ID:	JC52345-16		JC52433-40		JC52433-41		JC61183-5		JC61183-3		JC61097-1	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
2-Nitrophenol	*88-75-5*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA		NA		NA		NA		NA		NA	
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA		NA		NA		NA		NA		NA	
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA		NA		NA		NA		NA		NA	
p-Chloroaniline	*106-47-8*	--	--	NA		NA		NA		NA		NA		NA	
p-Chloro-m-cresol	*59-50-7*	--	--	NA		NA		NA		NA		NA		NA	
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA		NA		NA		NA		NA		NA	
Phenanthrene	*85-01-8*	*45.7*	--	0.013	U	2.5		0.14	J	NA		NA		NA	
Phenol	*108-95-2*	*30*	*120*	NA		NA		NA		NA		NA		NA	
Pyrene	*129-00-0*	*78.5*	--	0.012	U	2.9		0.066	J	NA		NA		NA	
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA		NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA		NA		NA		NA		NA		NA	
Total PAHs	*130498-29-2*	--	--	ND		18.59		2.176		ND		ND		ND	
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA		NA		NA		NA		NA		NA	
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA		NA		NA		NA		NA		NA	
Total SVOC TIC	*SRP171*	--	--	NA		NA		NA		NA		NA		NA	
Total VOC and SVOC TICs	*SRP351*	--	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P79:2-2 1/2'		P80:0-1/2'		P84:0-1/2'		P84:0.5-1'		P85:0-1/2'		P85:1 1/2-2'	
			Date Sampled:	2/20/2018		2/20/2018		2/20/2018		2/20/2018		2/20/2018		2/20/2018	
			Depth (ft):	2-2.5		0-0.5		0-0.5		0.5-1		0-0.5		1.5-2	
			LAB Sample ID:	JC61097-2		JC61097-3		JC61097-9		JC61097-10		JC61097-11		JC61097-12	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	NA		0.030	U	0.13		0.013	U	0.16		0.43	
Acenaphthylene	*208-96-8*	*682*	--	NA		0.043	U	0.033	J	0.019	U	0.024	J	0.019	U
Acetophenone	*98-86-2*	--	--	NA		NA		NA		NA		NA		NA	
Anthracene	*120-12-7*	*1480*	--	NA		0.052	U	0.27		0.023	U	0.45		0.9	
Aroclor 1016	*12674-11-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1221	*11104-28-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1232	*11141-16-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1242	*53469-21-9*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1248	*12672-29-6*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1254	*11097-69-1*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1260	*11096-82-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1262	*37324-23-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1268	*11100-14-4*	--	--	NA		NA		NA		NA		NA		NA	
Atrazine	*1912-24-9*	--	--	NA		NA		NA		NA		NA		NA	
Benzaldehyde	*100-52-7*	--	--	NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA		0.13		**1.6**		0.049		**2.6**		**1.8**	
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA		0.14		1.5		0.052		2.2		1.6	
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA		0.19		2.2		0.07		3.1		1.9	
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA		0.12		1.5		0.05		2.1		1.3	
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA		0.074	J	0.59		0.02	J	1.1		0.6	
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		NA		NA		NA		NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		NA		NA		NA		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		NA		NA		NA		NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		NA		NA		NA		NA	
Caprolactam	*105-60-2*	--	--	NA		NA		NA		NA		NA		NA	
Carbazole	*86-74-8*	--	--	NA		NA		NA		NA		NA		NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		NA		NA		NA		NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		NA		NA		NA		NA	
Chrysene	*218-01-9*	*4.73*	--	NA		0.15		1.5		0.053		2.1		1.4	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P79:2-2 1/2'		P80:0-1/2'		P84:0-1/2'		P84:0.5-1'		P85:0-1/2'		P85:1 1/2-2'	
			Date Sampled:	2/20/2018		2/20/2018		2/20/2018		2/20/2018		2/20/2018		2/20/2018	
			Depth (ft):	2-2.5		0-0.5		0-0.5		0.5-1		0-0.5		1.5-2	
			LAB Sample ID:	JC61097-2		JC61097-3		JC61097-9		JC61097-10		JC61097-11		JC61097-12	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA		0.038	U	0.27		0.016	U	0.41		0.24	
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	NA		0.25		3.4		0.075		4.7		3.9	
Fluorene	*86-73-7*	*122*	--	NA		0.039	U	0.091		0.017	U	0.12		0.37	
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA		**1.154**		**13.66**		0.421		**<u>19.71</u>**		**13.54**	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA		0.09		1.2		0.038		2.2		1.4	
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	ND		0.349		5.548		0.118		7.49		8.94	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	0.011	U	0.024	U	0.024	J	0.010	U	0.036	J	**0.44**	
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P79:2-2 1/2'	P80:0-1/2'	P84:0-1/2'	P84:0.5-1'	P85:0-1/2'	P85:1 1/2-2'
			Date Sampled:	2/20/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018
			Depth (ft):	2-2.5	0-0.5	0-0.5	0.5-1	0-0.5	1.5-2
			LAB Sample ID:	JC61097-2	JC61097-3	JC61097-9	JC61097-10	JC61097-11	JC61097-12
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
2-Nitrophenol	*88-75-5*	--	--	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA	NA	NA	NA	NA	NA
p-Chloroaniline	*106-47-8*	--	--	NA	NA	NA	NA	NA	NA
p-Chloro-m-cresol	*59-50-7*	--	--	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA	NA	NA	NA	NA	NA
Phenanthrene	*85-01-8*	*45.7*	--	NA	0.099	1.6	0.043	2	2.9
Phenol	*108-95-2*	*30*	*120*	NA	NA	NA	NA	NA	NA
Pyrene	*129-00-0*	*78.5*	--	NA	0.26	3.3	0.089	3.9	3.3
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA	NA	NA	NA	NA	NA
Total PAHs	*130498-29-2*	--	--	ND	1.503	19.208	0.539	27.2	22.48
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA	NA	NA	NA	NA	NA
Total SVOC TIC	*SRP171*	--	--	NA	NA	NA	NA	NA	NA
Total VOC and SVOC TICs	*SRP351*	--	--	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P94:4-4 1/2'		P96		P99		P100		P101: 3-4'		P102: 0-1/2'	
			Date Sampled:	2/20/2018		2/21/2018		2/21/2018		2/21/2018		5/24/2018		5/24/2018	
			Depth (ft):	4-4.5		4.5-5		0-0.25		0-0.25		3-4		0-0.5	
			LAB Sample ID:	JC61097-31		JC61183-7		JC61183-17		JC61183-18		JC66860-1		JC66860-2	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	NA		NA		0.031	J	0.35		NA		0.2	
Acenaphthylene	*208-96-8*	*682*	--	NA		NA		0.019	U	0.053		NA		0.057	
Acetophenone	*98-86-2*	--	--	NA		NA		0.0081	U	0.0099	U	NA		NA	
Anthracene	*120-12-7*	*1480*	--	NA		NA		0.072		0.85		NA		0.52	
Aroclor 1016	*12674-11-2*	--	--	NA		NA		0.015	U	0.019	U	NA		NA	
Aroclor 1221	*11104-28-2*	--	--	NA		NA		0.015	U	0.019	U	NA		NA	
Aroclor 1232	*11141-16-5*	--	--	NA		NA		0.01	U	0.013	U	NA		NA	
Aroclor 1242	*53469-21-9*	--	--	NA		NA		0.006	U	0.0075	U	NA		NA	
Aroclor 1248	*12672-29-6*	--	--	NA		NA		0.022	U	0.028	U	NA		NA	
Aroclor 1254	*11097-69-1*	--	--	NA		NA		0.0093	U	0.012	U	NA		NA	
Aroclor 1260	*11096-82-5*	--	--	NA		NA		0.012	U	0.015	U	NA		NA	
Aroclor 1262	*37324-23-5*	--	--	NA		NA		0.0029	U	0.0036	U	NA		NA	
Aroclor 1268	*11100-14-4*	--	--	NA		NA		0.0056	U	0.007	U	NA		NA	
Atrazine	*1912-24-9*	--	--	NA		NA		0.016	U	0.02	U	NA		NA	
Benzaldehyde	*100-52-7*	--	--	NA		NA		0.0094	U	0.011	U	NA		NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	NA		NA		0.51		**3.7**		NA		**2**	
Benzo(a)anthracene	*56-55-3*	*5.21*	--	NA		NA		0.41		3.2		NA		2.1	
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	NA		NA		0.61		4.6		NA		2.6	
Benzo(ghi)perylene	*191-24-2*	*119*	--	NA		NA		0.44		3.3		NA		1.8	
Benzo(k)fluoranthene	*207-08-9*	*148*	--	NA		NA		0.22		1.5		NA		1.1	
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		0.0052	U	0.0063	U	NA		NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		0.0081	U	0.0098	U	NA		NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		0.016	U	0.02	U	NA		NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		0.014	U	0.017	U	NA		NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		0.0089	U	0.32		NA		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		0.015	U	0.018	U	NA		NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		0.0092	U	0.011	U	NA		NA	
Caprolactam	*105-60-2*	--	--	NA		NA		0.015	U	0.018	U	NA		NA	
Carbazole	*86-74-8*	--	--	NA		NA		0.074	J	0.67		NA		NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		0.009	U	0.011	U	NA		NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		0.019	U	0.023	U	NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		0.012	U	0.015	U	NA		NA	
Chrysene	*218-01-9*	*4.73*	--	NA		NA		0.46		3.4		NA		2.2	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P94:4-4 1/2'		P96		P99		P100		P101: 3-4'		P102: 0-1/2'	
			Date Sampled:	2/20/2018		2/21/2018		2/21/2018		2/21/2018		5/24/2018		5/24/2018	
			Depth (ft):	4-4.5		4.5-5		0-0.25		0-0.25		3-4		0-0.5	
			LAB Sample ID:	JC61097-31		JC61183-7		JC61183-17		JC61183-18		JC66860-1		JC66860-2	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	NA		NA		0.081		0.59		NA		0.34	
Dibenzofuran	*132-64-9*	--	--	NA		NA		0.015	U	0.16		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		0.032	U	0.038	U	NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		0.032	U	0.039	U	NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		0.0081	U	0.0098	U	NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		0.067	U	0.082	U	NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		0.0067	U	0.0082	U	NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		0.0062	U	0.0075	U	NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		0.041	U	0.049	U	NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		*0.14*	U	*0.17*	U	NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		ND		ND		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		0.012	U	0.014	U	NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		0.019	U	0.023	U	NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		0.0094	U	0.011	U	NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		0.025	U	0.03	U	NA		NA	
Fluoranthene	*206-44-0*	*122*	--	NA		NA		0.92		6.2		NA		5	
Fluorene	*86-73-7*	*122*	--	NA		NA		0.022	J	0.26		NA		0.18	
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		0.0096	U	0.012	U	NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		0.015	U	0.018	U	NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		0.015	U	0.018	U	NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		0.019	U	0.023	U	NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	NA		NA		**3.871**		**<u>29.29</u>**		NA		**17.94**	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	NA		NA		0.45		3.6		NA		1.7	
Isophorone	*78-59-1*	*139*	--	NA		NA		0.0081	U	0.0098	U	NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	25.5		15.7		1.425		11.289		ND		8.432	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	**25.5**		NA		0.0086	U	0.056		0.0093	U	NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		0.024	U	0.029	U	NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		0.031	U	0.038	U	NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	NA		**15.7**		0.011	U	**0.12**		NA		0.075	
2-Nitroaniline	*88-74-4*	--	--	NA		NA		0.0089	U	0.011	U	NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		0.0095	U	0.011	U	NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		0.0098	U	0.012	U	NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		0.015	U	0.018	U	NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P94:4-4 1/2'		P96		P99		P100		P101: 3-4'		P102: 0-1/2'	
			Date Sampled:	2/20/2018		2/21/2018		2/21/2018		2/21/2018		5/24/2018		5/24/2018	
			Depth (ft):	4-4.5		4.5-5		0-0.25		0-0.25		3-4		0-0.5	
			LAB Sample ID:	JC61097-31		JC61183-7		JC61183-17		JC61183-18		JC66860-1		JC66860-2	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
2-Nitrophenol	*88-75-5*	--	--	NA		NA		0.025	U	0.03	U	NA		NA	
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA		NA		0.1	U	0.12	U	NA		NA	
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA		NA		0.011	U	0.013	U	NA		NA	
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA		NA		0.014	U	0.017	U	NA		NA	
p-Chloroaniline	*106-47-8*	--	--	NA		NA		0.014	U	0.017	U	NA		NA	
p-Chloro-m-cresol	*59-50-7*	--	--	NA		NA		0.023	U	0.028	U	NA		NA	
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA		NA		0.036	U	0.043	U	NA		NA	
Phenanthrene	*85-01-8*	*45.7*	--	NA		NA		0.38		3.4		NA		2.4	
Phenol	*108-95-2*	*30*	*120*	NA		NA		0.02	U	0.024	U	NA		NA	
Pyrene	*129-00-0*	*78.5*	--	NA		NA		0.69		5.4		NA		4.1	
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA		NA		0.0096	U	0.012	U	NA		NA	
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA		NA		0.025	U	0.03	U	NA		NA	
Total PAHs	*130498-29-2*	--	--	25.5		15.7		5.296		40.579		ND		26.372	
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA		NA		ND		ND		NA		NA	
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA		NA		0.028	U	0.034	U	NA		NA	
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA		NA		0.023	U	0.027	U	NA		NA	
Total SVOC TIC	*SRP171*	--	--	NA		NA		5.2	J	12.7	J	NA		NA	
Total VOC and SVOC TICs	*SRP351*	--	--	NA		NA		5.2		12.7		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P102: 1-2'		P102: 5-6'		P102: 10-11'		P103: 0-1/2'		P103: 1-2'		P103: 3-4'	
			Date Sampled:	5/24/2018		5/24/2018		5/24/2018		5/24/2018		5/24/2018		5/24/2018	
			Depth (ft):	1-2		5-6		10-11		0-0.5		1-2		3-4	
			LAB Sample ID:	JC66860-3		JC66860-4		JC66860-5		JC66860-6		JC66860-7		JC66860-8	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	0.014	U	0.013	U	0.012	U	0.055		0.013	U	0.053	
Acenaphthylene	*208-96-8*	*682*	--	0.066		0.019	U	0.018	U	0.021	U	0.019	U	0.086	
Acetophenone	*98-86-2*	--	--	NA		NA		NA		NA		NA		NA	
Anthracene	*120-12-7*	*1480*	--	0.14		0.023	U	0.022	U	0.13		0.024	U	0.23	
Aroclor 1016	*12674-11-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1221	*11104-28-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1232	*11141-16-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1242	*53469-21-9*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1248	*12672-29-6*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1254	*11097-69-1*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1260	*11096-82-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1262	*37324-23-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1268	*11100-14-4*	--	--	NA		NA		NA		NA		NA		NA	
Atrazine	*1912-24-9*	--	--	NA		NA		NA		NA		NA		NA	
Benzaldehyde	*100-52-7*	--	--	NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	0.26		0.017	U	0.016	U	0.65		0.038		0.73	
Benzo(a)anthracene	*56-55-3*	*5.21*	--	0.28		0.011	U	0.010	U	0.62		0.033	J	0.68	
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	0.31		0.017	U	0.016	U	0.91		0.043		0.81	
Benzo(ghi)perylene	*191-24-2*	*119*	--	0.2		0.019	U	0.018	U	0.63		0.03	J	0.44	
Benzo(k)fluoranthene	*207-08-9*	*148*	--	0.13		0.018	U	0.017	U	0.32		0.018	U	0.33	
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		NA		NA		NA		NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		NA		NA		NA		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		NA		NA		NA		NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		NA		NA		NA		NA	
Caprolactam	*105-60-2*	--	--	NA		NA		NA		NA		NA		NA	
Carbazole	*86-74-8*	--	--	NA		NA		NA		NA		NA		NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		NA		NA		NA		NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		NA		NA		NA		NA	
Chrysene	*218-01-9*	*4.73*	--	0.3		0.012	U	0.011	U	0.7		0.031	J	0.69	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P102: 1-2'		P102: 5-6'		P102: 10-11'		P103: 0-1/2'		P103: 1-2'		P103: 3-4'	
			Date Sampled:	5/24/2018		5/24/2018		5/24/2018		5/24/2018		5/24/2018		5/24/2018	
			Depth (ft):	1-2		5-6		10-11		0-0.5		1-2		3-4	
			LAB Sample ID:	JC66860-3		JC66860-4		JC66860-5		JC66860-6		JC66860-7		JC66860-8	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	0.054		0.017	U	0.016	U	0.11		0.017	U	0.12	
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	0.52		0.017	U	0.016	U	1.3		0.046		1.1	
Fluorene	*86-73-7*	*122*	--	0.062		0.017	U	0.016	U	0.019	U	0.018	U	0.074	
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	**2.194**		ND		ND		**5.82**		0.257		**5.74**	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	0.18		0.018	U	0.017	U	0.58		0.03	J	0.44	
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	1.321		ND		ND		2.135		0.065		2.416	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	0.053		0.011	U	0.010	U	0.012	U	0.011	U	0.053	
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P102: 1-2'		P102: 5-6'		P102: 10-11'		P103: 0-1/2'		P103: 1-2'		P103: 3-4'	
			Date Sampled:	5/24/2018		5/24/2018		5/24/2018		5/24/2018		5/24/2018		5/24/2018	
			Depth (ft):	1-2		5-6		10-11		0-0.5		1-2		3-4	
			LAB Sample ID:	JC66860-3		JC66860-4		JC66860-5		JC66860-6		JC66860-7		JC66860-8	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
2-Nitrophenol	*88-75-5*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA		NA		NA		NA		NA		NA	
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA		NA		NA		NA		NA		NA	
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA		NA		NA		NA		NA		NA	
p-Chloroaniline	*106-47-8*	--	--	NA		NA		NA		NA		NA		NA	
p-Chloro-m-cresol	*59-50-7*	--	--	NA		NA		NA		NA		NA		NA	
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA		NA		NA		NA		NA		NA	
Phenanthrene	*85-01-8*	*45.7*	--	0.48		0.013	U	0.012	U	0.65		0.019	J	0.82	
Phenol	*108-95-2*	*30*	*120*	NA		NA		NA		NA		NA		NA	
Pyrene	*129-00-0*	*78.5*	--	0.48		0.012	U	0.011	U	1.3		0.052		1.5	
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA		NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA		NA		NA		NA		NA		NA	
Total PAHs	*130498-29-2*	--	--	3.515		ND		ND		7.955		0.322		8.156	
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA		NA		NA		NA		NA		NA	
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA		NA		NA		NA		NA		NA	
Total SVOC TIC	*SRP171*	--	--	NA		NA		NA		NA		NA		NA	
Total VOC and SVOC TICs	*SRP351*	--	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P103: 13 1/2-14'		P104: 1-2'		P104: 6 1/2-7 1/2'		P109: 10-10 1/2'		P109: 17-17 1/2'		P119: 0-1/2'	
			Date Sampled:	5/24/2018		5/24/2018		5/24/2018		5/25/2018		5/25/2018		9/13/2018	
			Depth (ft):	13.5-14		1-2		6.5-7.5		10-10.5		17-17.5		0-0.5	
			LAB Sample ID:	JC66860-9		JC66860-11		JC66860-13		JC66860-30		JC66860-31		JC73820-11	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Acenaphthene	*83-32-9*	*20*	--	0.013	U	0.013	U	0.013	U	NA		NA		0.013	U
Acenaphthylene	*208-96-8*	*682*	--	0.019	U	0.055		0.020	U	NA		NA		0.019	U
Acetophenone	*98-86-2*	--	--	NA		NA		NA		NA		NA		NA	
Anthracene	*120-12-7*	*1480*	--	0.023	U	0.07		0.024	U	NA		NA		0.023	U
Aroclor 1016	*12674-11-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1221	*11104-28-2*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1232	*11141-16-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1242	*53469-21-9*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1248	*12672-29-6*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1254	*11097-69-1*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1260	*11096-82-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1262	*37324-23-5*	--	--	NA		NA		NA		NA		NA		NA	
Aroclor 1268	*11100-14-4*	--	--	NA		NA		NA		NA		NA		NA	
Atrazine	*1912-24-9*	--	--	NA		NA		NA		NA		NA		NA	
Benzaldehyde	*100-52-7*	--	--	NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	0.017	U	0.2		0.018	U	NA		NA		0.15	
Benzo(a)anthracene	*56-55-3*	*5.21*	--	0.011	U	0.22		0.011	U	NA		NA		0.12	
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	0.017	U	0.31		0.017	U	NA		NA		0.19	
Benzo(ghi)perylene	*191-24-2*	*119*	--	0.019	U	0.15		0.019	U	NA		NA		0.11	
Benzo(k)fluoranthene	*207-08-9*	*148*	--	0.018	U	0.098		0.018	U	NA		NA		0.077	
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		NA		NA		NA		NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		NA		NA		NA		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		NA		NA		NA		NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		NA		NA		NA		NA	
Caprolactam	*105-60-2*	--	--	NA		NA		NA		NA		NA		NA	
Carbazole	*86-74-8*	--	--	NA		NA		NA		NA		NA		NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		NA		NA		NA		NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		NA		NA		NA		NA	
Chrysene	*218-01-9*	*4.73*	--	0.012	U	0.27		0.012	U	NA		NA		0.15	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P103: 13 1/2-14'		P104: 1-2'		P104: 6 1/2-7 1/2'		P109: 10-10 1/2'		P109: 17-17 1/2'		P119: 0-1/2'	
			Date Sampled:	5/24/2018		5/24/2018		5/24/2018		5/25/2018		5/25/2018		9/13/2018	
			Depth (ft):	13.5-14		1-2		6.5-7.5		10-10.5		17-17.5		0-0.5	
			LAB Sample ID:	JC66860-9		JC66860-11		JC66860-13		JC66860-30		JC66860-31		JC73820-11	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	0.017	U	0.039		0.017	U	NA		NA		0.022	J
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	0.017	U	0.43		0.017	U	NA		NA		0.22	
Fluorene	*86-73-7*	*122*	--	0.017	U	0.017	U	0.018	U	NA		NA		0.017	U
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	ND		**1.847**		ND		NA		NA		**1.136**	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	0.018	U	0.15		0.018	U	NA		NA		0.087	
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	0.14		0.745		0.51		10		0.4		0.357	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	**0.14**		0.010	U	**0.51**		**10**		**0.4**	J	0.017	J
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P103: 13 1/2-14'		P104: 1-2'		P104: 6 1/2-7 1/2'		P109: 10-10 1/2'		P109: 17-17 1/2'		P119: 0-1/2'	
			Date Sampled:	5/24/2018		5/24/2018		5/24/2018		5/25/2018		5/25/2018		9/13/2018	
			Depth (ft):	13.5-14		1-2		6.5-7.5		10-10.5		17-17.5		0-0.5	
			LAB Sample ID:	JC66860-9		JC66860-11		JC66860-13		JC66860-30		JC66860-31		JC73820-11	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
2-Nitrophenol	*88-75-5*	--	--	NA		NA		NA		NA		NA		NA	
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA		NA		NA		NA		NA		NA	
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA		NA		NA		NA		NA		NA	
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA		NA		NA		NA		NA		NA	
p-Chloroaniline	*106-47-8*	--	--	NA		NA		NA		NA		NA		NA	
p-Chloro-m-cresol	*59-50-7*	--	--	NA		NA		NA		NA		NA		NA	
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA		NA		NA		NA		NA		NA	
Phenanthrene	*85-01-8*	*45.7*	--	0.013	U	0.19		0.013	U	NA		NA		0.12	
Phenol	*108-95-2*	*30*	*120*	NA		NA		NA		NA		NA		NA	
Pyrene	*129-00-0*	*78.5*	--	0.012	U	0.41		0.012	U	NA		NA		0.23	
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA		NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA		NA		NA		NA		NA		NA	
Total PAHs	*130498-29-2*	--	--	0.14		2.592		0.51		10		0.4		1.493	
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA		NA		NA		NA		NA		NA	
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA		NA		NA		NA		NA		NA	
Total SVOC TIC	*SRP171*	--	--	NA		NA		NA		NA		NA		NA	
Total VOC and SVOC TICs	*SRP351*	--	--	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P119: 1 1/2-2'		P119: 1/2-1'		P120: 0-1/2'		P120: 1 1/2-2'		P120: 1/2-1'	
			Date Sampled:	9/13/2018		9/13/2018		9/13/2018		9/13/2018		9/13/2018	
			Depth (ft):	1.5-2		0.5-1		0-0.5		1.5-2		0.5-1	
			LAB Sample ID:	JC73820-13		JC73820-12		JC73820-14		JC73820-16		JC73820-15	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***										
Acenaphthene	*83-32-9*	*20*	--	0.017	J	0.013	U	0.014	U	0.012	U	0.063	U
Acenaphthylene	*208-96-8*	*682*	--	0.058		0.031	J	0.020	U	0.037		0.092	U
Acetophenone	*98-86-2*	--	--	NA		NA		NA		NA		NA	
Anthracene	*120-12-7*	*1480*	--	0.1		0.059		0.036	J	0.062		0.11	U
Aroclor 1016	*12674-11-2*	--	--	NA		NA		NA		NA		NA	
Aroclor 1221	*11104-28-2*	--	--	NA		NA		NA		NA		NA	
Aroclor 1232	*11141-16-5*	--	--	NA		NA		NA		NA		NA	
Aroclor 1242	*53469-21-9*	--	--	NA		NA		NA		NA		NA	
Aroclor 1248	*12672-29-6*	--	--	NA		NA		NA		NA		NA	
Aroclor 1254	*11097-69-1*	--	--	NA		NA		NA		NA		NA	
Aroclor 1260	*11096-82-5*	--	--	NA		NA		NA		NA		NA	
Aroclor 1262	*37324-23-5*	--	--	NA		NA		NA		NA		NA	
Aroclor 1268	*11100-14-4*	--	--	NA		NA		NA		NA		NA	
Atrazine	*1912-24-9*	--	--	NA		NA		NA		NA		NA	
Benzaldehyde	*100-52-7*	--	--	NA		NA		NA		NA		NA	
Benzo(a)pyrene	*50-32-8*	*1.52*	--	0.57		0.25		0.14		0.38		0.083	U
Benzo(a)anthracene	*56-55-3*	*5.21*	--	0.48		0.22		0.12		0.28		0.076	J
Benzo(b)fluoranthene	*205-99-2*	*59.8*	--	0.73		0.33		0.17		0.46		0.082	J
Benzo(ghi)perylene	*191-24-2*	*119*	--	0.42		0.17		0.092		0.25		0.091	U
Benzo(k)fluoranthene	*207-08-9*	*148*	--	0.36		0.14		0.087		0.23		0.085	U
1,1-Biphenyl	*92-52-4*	*60*	--	NA		NA		NA		NA		NA	
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	NA		NA		NA		NA		NA	
bis(2-Chloroethyl)ether	*111-44-4*	*23.7*	--	NA		NA		NA		NA		NA	
bis(2-Chloroisopropyl)ether	*108-60-1*	*19.9*	--	NA		NA		NA		NA		NA	
bis(2-Ethylhexyl)phthalate	*117-81-7*	*0.925*	--	NA		NA		NA		NA		NA	
4-Bromophenyl-phenylether	*101-55-3*	--	--	NA		NA		NA		NA		NA	
Butyl benzyl phthalate	*85-68-7*	*0.239*	--	NA		NA		NA		NA		NA	
Caprolactam	*105-60-2*	--	--	NA		NA		NA		NA		NA	
Carbazole	*86-74-8*	--	--	NA		NA		NA		NA		NA	
2-Chloronaphthalene	*91-58-7*	*0.0122*	--	NA		NA		NA		NA		NA	
2-Chlorophenol	*95-57-8*	*0.243*	--	NA		NA		NA		NA		NA	
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	NA		NA		NA		NA		NA	
Chrysene	*218-01-9*	*4.73*	--	0.63		0.29		0.15		0.41		0.079	J

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P119: 1 1/2-2'		P119: 1/2-1'		P120: 0-1/2'		P120: 1 1/2-2'		P120: 1/2-1'	
			Date Sampled:	9/13/2018		9/13/2018		9/13/2018		9/13/2018		9/13/2018	
			Depth (ft):	1.5-2		0.5-1		0-0.5		1.5-2		0.5-1	
			LAB Sample ID:	JC73820-13		JC73820-12		JC73820-14		JC73820-16		JC73820-15	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***										
Dibenz(a,h)anthracene	*53-70-3*	*18.4*	--	0.098		0.044		0.02	J	0.064		0.080	U
Dibenzofuran	*132-64-9*	--	--	NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	*91-94-1*	*0.646*	--	NA		NA		NA		NA		NA	
2,4-Dichlorophenol	*120-83-2*	*87.5*	--	NA		NA		NA		NA		NA	
Diethyl phthalate	*84-66-2*	*24.8*	*100*	NA		NA		NA		NA		NA	
2,4-Dimethyl phenol	*105-67-9*	*0.01*	--	NA		NA		NA		NA		NA	
Dimethyl phthalate	*131-11-3*	--	--	NA		NA		NA		NA		NA	
Di-n-butyl phthalate	*84-74-2*	*0.15*	*200*	NA		NA		NA		NA		NA	
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	NA		NA		NA		NA		NA	
2,4-Dinitrophenol	*51-28-5*	*0.0609*	*20*	NA		NA		NA		NA		NA	
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	*121-14-2*	*1.28*	--	NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	*606-20-2*	--	--	NA		NA		NA		NA		NA	
Di-n-octyl phthalate	*117-84-0*	--	--	NA		NA		NA		NA		NA	
1,4-Dioxane	*123-91-1*	--	--	NA		NA		NA		NA		NA	
Fluoranthene	*206-44-0*	*122*	--	0.95		0.38		0.22		0.5		0.09	J
Fluorene	*86-73-7*	*122*	--	0.021	J	0.017	U	0.018	U	0.016	U	0.083	U
Hexachlorobenzene	*118-74-1*	*0.199*	--	NA		NA		NA		NA		NA	
Hexachlorobutadiene	*87-68-3*	*0.0398*	--	NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	*77-47-4*	*0.755*	*10*	NA		NA		NA		NA		NA	
Hexachloroethane	*67-72-1*	*0.596*	--	NA		NA		NA		NA		NA	
High Molecular Weight PAHs	*SRP420*	*1.1*	*18*	**4.748**		**2.134**		**1.132**		**2.924**		0.357	
Indeno(1,2,3-cd)pyrene	*193-39-5*	*109*	--	0.36		0.15		0.073		0.22		0.085	U
Isophorone	*78-59-1*	*139*	--	NA		NA		NA		NA		NA	
Low Molecular Weight PAHs	*SRP419*	*29*	*100*	1.536		0.66		0.396		0.789		0.09	
2-Methylnaphthalene	*91-57-6*	*3.24*	--	NA		NA		NA		NA		NA	
2-Methylphenol	*95-48-7*	--	--	NA		NA		NA		NA		NA	
3&4-Methylphenol	*65794-96-9*	--	--	NA		NA		NA		NA		NA	
Naphthalene	*91-20-3*	*0.0994*	--	0.010	U	0.010	U	0.011	U	0.010	U	0.051	U
2-Nitroaniline	*88-74-4*	--	--	NA		NA		NA		NA		NA	
3-Nitroaniline	*99-09-2*	--	--	NA		NA		NA		NA		NA	
4-Nitroaniline	*100-01-6*	--	--	NA		NA		NA		NA		NA	
Nitrobenzene	*98-95-3*	*1.31*	--	NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P119: 1 1/2-2'		P119: 1/2-1'		P120: 0-1/2'		P120: 1 1/2-2'		P120: 1/2-1'	
			Date Sampled:	9/13/2018		9/13/2018		9/13/2018		9/13/2018		9/13/2018	
			Depth (ft):	1.5-2		0.5-1		0-0.5		1.5-2		0.5-1	
			LAB Sample ID:	JC73820-13		JC73820-12		JC73820-14		JC73820-16		JC73820-15	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***										
2-Nitrophenol	*88-75-5*	--	--	NA		NA		NA		NA		NA	
4-Nitrophenol	*100-02-7*	*5.12*	*7*	NA		NA		NA		NA		NA	
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	NA		NA		NA		NA		NA	
n-Nitrosodiphenylamine	*86-30-6*	*0.545*	--	NA		NA		NA		NA		NA	
p-Chloroaniline	*106-47-8*	--	--	NA		NA		NA		NA		NA	
p-Chloro-m-cresol	*59-50-7*	--	--	NA		NA		NA		NA		NA	
Pentachlorophenol	*87-86-5*	*0.119*	*31*	NA		NA		NA		NA		NA	
Phenanthrene	*85-01-8*	*45.7*	--	0.39		0.19		0.14		0.19		0.061	U
Phenol	*108-95-2*	*30*	*120*	NA		NA		NA		NA		NA	
Pyrene	*129-00-0*	*78.5*	--	1.1		0.54		0.28		0.63		0.12	J
1,2,4,5-Tetrachlorobenzene	*95-94-3*	*2.02*	--	NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	NA		NA		NA		NA		NA	
Total PAHs	*130498-29-2*	--	--	6.284		2.794		1.528		3.713		0.447	
Total PCBs	*1336-36-3*	*0.000332*	*40*	NA		NA		NA		NA		NA	
2,4,5-Trichlorophenol	*95-95-4*	*4*	*9*	NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	*88-06-2*	*4*	--	NA		NA		NA		NA		NA	
Total SVOC TIC	*SRP171*	--	--	NA		NA		NA		NA		NA	
Total VOC and SVOC TICs	*SRP351*	--	--	NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

TABLE 1-3

Summary of Metals in Soil

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P8:6'		P8:12'		P10:0-1'		P10:3'		P12:0-6		P12:5'	
			Date Sampled:	5/8/2017		5/8/2017		5/9/2017		5/9/2017		5/8/2017		5/8/2017	
			Depth (ft):	6-6		12-12		0-1		3-3		0-0.5		5-5	
			LAB Sample ID:	JC42929-24		JC42929-25		JC42929-30R		JC42929-31R		JC42929-1		JC42929-2	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		NA		**19100**		**9990**		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	NA		NA		*0.64*	U	*0.32*	U	NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	NA		NA		0.23	U	7.4		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	NA		NA		80.2		57.7		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	NA		NA		0.33		0.62		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		NA		**1.3**		0.055	U	NA		NA	
Calcium	*7440-70-2*	*--*	*--*	NA		NA		13200		2.1	U	NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	NA		NA		**50.7**		**27.6**		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		NA		**18.3**		**5.5**		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	NA		NA		**139**		**17.1**		NA		NA	
Iron	*7439-89-6*	*--*	*--*	NA		NA		28300		25000		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***6.8***		***10.5***		***241***		***190***		***50.9***		***25.5***	
Magnesium	*7439-95-4*	*--*	*--*	NA		NA		12200		857		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	NA		NA		**393**		63.9		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		NA		*0.0056*	U	***0.29***		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	NA		NA		**38.3**		10.9		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	NA		NA		20	U	1670		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		NA		*0.51*	U	*0.51*	U	NA		NA	
Silver	*7440-22-4*	*2*	*560*	NA		NA		0.22	U	0.11	U	NA		NA	
Sodium	*7440-23-5*	*--*	*--*	NA		NA		1780		4.3	U	NA		NA	
Thallium	*7440-28-0*	*1*	*--*	NA		NA		0.88	U	0.44	U	NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	NA		NA		**73.9**		**28.2**		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	NA		NA		**572**		**65.3**		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P12:6 1/2'	P13:0-6	P13:4'	P13:6'	P14:0-6	P14:5'
			Date Sampled:	5/8/2017	5/8/2017	5/8/2017	5/8/2017	5/8/2017	5/8/2017
			Depth (ft):	6.5-6.5	0-0.5	4-4	6-6	0-0.5	5-5
			LAB Sample ID:	JC42929-3	JC42929-4	JC42929-5	JC42929-6	JC42929-7	JC42929-8
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Aluminum	*7429-90-5*	*50*	*--*	NA	NA	NA	NA	NA	NA
Antimony	*7440-36-0*	*0.27*	*78*	NA	NA	NA	NA	NA	NA
Arsenic	*7440-38-2*	*9.9*	*46*	NA	NA	NA	NA	NA	NA
Barium	*7440-39-3*	*283*	*2000*	NA	NA	NA	NA	NA	NA
Beryllium	*7440-41-7*	*10*	*40*	NA	NA	NA	NA	NA	NA
Cadmium	*7440-43-9*	*0.36*	*140*	NA	NA	NA	NA	NA	NA
Calcium	*7440-70-2*	*--*	*--*	NA	NA	NA	NA	NA	NA
Chromium	*7440-47-3*	*0.4*	*1*	NA	NA	NA	NA	NA	NA
Cobalt	*7440-48-4*	*0.14*	*230*	NA	NA	NA	NA	NA	NA
Copper	*7440-50-8*	*5.4*	*100*	NA	NA	NA	NA	NA	NA
Iron	*7439-89-6*	*--*	*--*	NA	NA	NA	NA	NA	NA
Lead	*7439-92-1*	*0.0537*	*1700*	***9.5***	***14.6***	***529***	***49.9***	***7.8***	***55***
Magnesium	*7439-95-4*	*--*	*--*	NA	NA	NA	NA	NA	NA
Manganese	*7439-96-5*	*220*	*4300*	NA	NA	NA	NA	NA	NA
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA	NA	NA	NA	NA	NA
Nickel	*7440-02-0*	*13.6*	*280*	NA	NA	NA	NA	NA	NA
Potassium	*7440-09-7*	*--*	*--*	NA	NA	NA	NA	NA	NA
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA	NA	NA	NA	NA	NA
Silver	*7440-22-4*	*2*	*560*	NA	NA	NA	NA	NA	NA
Sodium	*7440-23-5*	*--*	*--*	NA	NA	NA	NA	NA	NA
Thallium	*7440-28-0*	*1*	*--*	NA	NA	NA	NA	NA	NA
Vanadium	*7440-62-2*	*2*	*280*	NA	NA	NA	NA	NA	NA
Zinc	*7440-66-6*	*6.62*	*160*	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P15:0-6		P15:5'		P16:0-6		P16:4'		P17:4'		P17:9'	
			Date Sampled:	5/8/2017		5/8/2017		5/8/2017		5/8/2017		4/28/2017		4/28/2017	
			Depth (ft):	0-0.5		5-5		0-0.5		4-4		4-4		9-9	
			LAB Sample ID:	JC42929-9		JC42929-10		JC42929-11		JC42929-12		JC42231-19		JC42231-20	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		NA		NA		NA		**12400**		**16500**	
Antimony	*7440-36-0*	*0.27*	*78*	NA		NA		NA		NA		*0.34*	U	*0.34*	U
Arsenic	*7440-38-2*	*9.9*	*46*	NA		NA		NA		NA		7		4.9	
Barium	*7440-39-3*	*283*	*2000*	NA		NA		NA		NA		45.8		74.2	
Beryllium	*7440-41-7*	*10*	*40*	NA		NA		NA		NA		0.88		0.39	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		NA		NA		NA		0.059	U	0.059	U
Calcium	*7440-70-2*	*--*	*--*	NA		NA		NA		NA		1100		2.2	U
Chromium	*7440-47-3*	*0.4*	*1*	NA		NA		NA		NA		**25.2**		**24.5**	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		NA		NA		NA		**7.6**		0.069	U
Copper	*7440-50-8*	*5.4*	*100*	NA		NA		NA		NA		**21.8**		**15.8**	
Iron	*7439-89-6*	*--*	*--*	NA		NA		NA		NA		28300		17200	
Lead	*7439-92-1*	*0.0537*	*1700*	***112***		***11.2***		***6.2***		***14.9***		***27***		***11.7***	
Magnesium	*7439-95-4*	*--*	*--*	NA		NA		NA		NA		1170		1380	
Manganese	*7439-96-5*	*220*	*4300*	NA		NA		NA		NA		72.7		42.1	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		NA		NA		NA		***0.043***		*0.0060*	U
Nickel	*7440-02-0*	*13.6*	*280*	NA		NA		NA		NA		**20.7**		9.7	
Potassium	*7440-09-7*	*--*	*--*	NA		NA		NA		NA		22	U	22	U
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		NA		NA		NA		*0.55*	U	*0.54*	U
Silver	*7440-22-4*	*2*	*560*	NA		NA		NA		NA		0.12	U	0.12	U
Sodium	*7440-23-5*	*--*	*--*	NA		NA		NA		NA		4.6	U	4.5	U
Thallium	*7440-28-0*	*1*	*--*	NA		NA		NA		NA		0.47	U	0.47	U
Vanadium	*7440-62-2*	*2*	*280*	NA		NA		NA		NA		**37.2**		**39.4**	
Zinc	*7440-66-6*	*6.62*	*160*	NA		NA		NA		NA		**59.2**		**35.5**	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P20:5'		P22:0-6		P25:5-5 1/2'		P26:3 1/2'		P27:3 1/2'		P28:3 1/2'	
			Date Sampled:	5/8/2017		5/8/2017		5/9/2017		5/9/2017		5/9/2017		5/9/2017	
			Depth (ft):	5-5		0-0.5		5-5.5		3.5-3.5		3.5-3.5		3.5-3.5	
			LAB Sample ID:	JC42929-22R		JC42929-49R		JC42929-43		JC42929-44		JC42929-45		JC42929-47	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	**26800**		**9880**		NA		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	*0.36*	U	*0.29*	U	NA		NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	5.2		2.7		NA		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	79.7		75.9		NA		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	0.59		0.27		NA		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	0.062	U	**0.79**		NA		NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	827		11100		NA		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	**28.8**		**26.5**		NA		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	0.073	U	**6.1**		NA		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	**16.8**		**458**		NA		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	19300		13000		NA		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***16.2***		***54.4***		***13.6***		***220***		***7.7***		***39.3***	
Magnesium	*7439-95-4*	*--*	*--*	1370		3560		NA		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	27.3		**242**		NA		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	*0.0062*	U	***0.1***		NA		NA		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	10		**16.5**		NA		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	23	U	1030		NA		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	*0.57*	U	*0.46*	U	NA		NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	0.12	U	0.099	U	NA		NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	4.8	U	3.9	U	NA		NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	0.49	U	0.4	U	NA		NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	**48.7**		**26.3**		NA		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	**37.6**		**241**		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P29:3 1/2'		P30:6 1/2-7'		P30:8'		P30:17-18'		P30:21'		P31:6 1/2'	
			Date Sampled:	5/9/2017		5/9/2017		5/9/2017		5/9/2017		5/9/2017		5/9/2017	
			Depth (ft):	3.5-3.5		6.5-7		8-8		17-18		21-21		6.5-6.5	
			LAB Sample ID:	JC42929-46		JC42929-36		JC42929-37		JC42929-38		JC42929-39		JC42929-41	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		NA		NA		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	NA		NA		NA		NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	NA		NA		NA		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	NA		NA		NA		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	NA		NA		NA		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		NA		NA		NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	NA		NA		NA		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		NA		NA		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	NA		NA		NA		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***46.3***		***11.5***		***8***		***36.8***		***18.9***		***20.3***	
Magnesium	*7439-95-4*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	NA		NA		NA		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		NA		NA		NA		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	NA		NA		NA		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		NA		NA		NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	NA		NA		NA		NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	NA		NA		NA		NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	NA		NA		NA		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P31:9'	P32:4 1/2'	P32:15'	P33:4 1/2'	P33:15'	P34:16'
			Date Sampled:	5/9/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017
			Depth (ft):	9-9	4.5-4.5	15-15	4.5-4.5	16-16	16-16
			LAB Sample ID:	JC42929-42	JC42231-7	JC42231-8	JC42231-14	JC42231-15	JC42231-13
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Aluminum	*7429-90-5*	*50*	*--*	NA	NA	NA	NA	NA	NA
Antimony	*7440-36-0*	*0.27*	*78*	NA	NA	NA	NA	NA	NA
Arsenic	*7440-38-2*	*9.9*	*46*	NA	NA	NA	NA	NA	NA
Barium	*7440-39-3*	*283*	*2000*	NA	NA	NA	NA	NA	NA
Beryllium	*7440-41-7*	*10*	*40*	NA	NA	NA	NA	NA	NA
Cadmium	*7440-43-9*	*0.36*	*140*	NA	NA	NA	NA	NA	NA
Calcium	*7440-70-2*	*--*	*--*	NA	NA	NA	NA	NA	NA
Chromium	*7440-47-3*	*0.4*	*1*	NA	NA	NA	NA	NA	NA
Cobalt	*7440-48-4*	*0.14*	*230*	NA	NA	NA	NA	NA	NA
Copper	*7440-50-8*	*5.4*	*100*	NA	NA	NA	NA	NA	NA
Iron	*7439-89-6*	*--*	*--*	NA	NA	NA	NA	NA	NA
Lead	*7439-92-1*	*0.0537*	*1700*	***10.7***	***5.7***	***2.5***	***10.8***	***31***	***15.1***
Magnesium	*7439-95-4*	*--*	*--*	NA	NA	NA	NA	NA	NA
Manganese	*7439-96-5*	*220*	*4300*	NA	NA	NA	NA	NA	NA
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA	NA	NA	NA	NA	NA
Nickel	*7440-02-0*	*13.6*	*280*	NA	NA	NA	NA	NA	NA
Potassium	*7440-09-7*	*--*	*--*	NA	NA	NA	NA	NA	NA
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA	NA	NA	NA	NA	NA
Silver	*7440-22-4*	*2*	*560*	NA	NA	NA	NA	NA	NA
Sodium	*7440-23-5*	*--*	*--*	NA	NA	NA	NA	NA	NA
Thallium	*7440-28-0*	*1*	*--*	NA	NA	NA	NA	NA	NA
Vanadium	*7440-62-2*	*2*	*280*	NA	NA	NA	NA	NA	NA
Zinc	*7440-66-6*	*6.62*	*160*	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P35:5 1/2-6'		P35:7-7 1/2'		P36:6'		P36:12'		P37:3'		P37:7'	
			Date Sampled:	4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/28/2017	
			Depth (ft):	5.5-6		7-7.5		6-6		12-12		3-3		7-7	
			LAB Sample ID:	JC42231-11		JC42231-12		JC42231-9		JC42231-10		JC42231-1		JC42231-2	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		NA		NA		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	NA		NA		NA		NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	NA		NA		NA		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	NA		NA		NA		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	NA		NA		NA		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		NA		NA		NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	NA		NA		NA		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		NA		NA		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	NA		NA		NA		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***8.1***		***5.8***		***9.6***		***8.9***		***8.6***		***3***	
Magnesium	*7439-95-4*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	NA		NA		NA		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		NA		NA		NA		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	NA		NA		NA		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		NA		NA		NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	NA		NA		NA		NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	NA		NA		NA		NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	NA		NA		NA		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P38:3'		P38:8'		P38:13'		P38:18'		P39:15'		P40:6'	
			Date Sampled:	4/28/2017		4/28/2017		4/28/2017		4/28/2017		4/27/2017		5/8/2017	
			Depth (ft):	3-3		8-8		13-13		18-18		15-15		6-6	
			LAB Sample ID:	JC42231-3		JC42231-4		JC42231-5		JC42231-6		JC42109-10		JC42929-15	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		NA		NA		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	NA		NA		NA		NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	NA		NA		NA		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	NA		NA		NA		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	NA		NA		NA		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		NA		NA		NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	NA		NA		NA		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		NA		NA		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	NA		NA		NA		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***11.3***		***14.2***		***13.7***		***19.8***		***2.3***		***8.9***	
Magnesium	*7439-95-4*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	NA		NA		NA		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		NA		NA		NA		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	NA		NA		NA		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		NA		NA		NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	NA		NA		NA		NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	NA		NA		NA		NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	NA		NA		NA		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P40:15'		P41:5'		P41:10'		P42:6'		P42:8'		P43:1'	
			Date Sampled:	5/8/2017		5/8/2017		5/8/2017		5/8/2017		5/8/2017		4/27/2017	
			Depth (ft):	15-15		5-5		10-10		6-6		8-8		1-1	
			LAB Sample ID:	JC42929-16		JC42929-17		JC42929-18		JC42929-19		JC42929-20		JC42109-14	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		NA		NA		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	NA		NA		NA		NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	NA		NA		NA		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	NA		NA		NA		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	NA		NA		NA		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		NA		NA		NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	NA		NA		NA		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		NA		NA		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	NA		NA		NA		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***5.5***		***15.7***		***9.3***		***10.7***		***5.2***		***37.7***	
Magnesium	*7439-95-4*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	NA		NA		NA		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		NA		NA		NA		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	NA		NA		NA		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		NA		NA		NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	NA		NA		NA		NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	NA		NA		NA		NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	NA		NA		NA		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P43:2'		P43:6'		P44:3'		P44:7-7 1/2'		P45:5 1/2-6'		P45:12-12 1/2'	
			Date Sampled:	4/27/2017		4/27/2017		4/28/2017		4/28/2017		4/27/2017		4/27/2017	
			Depth (ft):	2-2		6-6		3-3		7-7.5		5.5-6		12-12.5	
			LAB Sample ID:	JC42109-15		JC42109-16		JC42231-16		JC42231-17		JC42109-11		JC42109-12	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		NA		NA		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	NA		NA		NA		NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	NA		NA		NA		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	NA		NA		NA		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	NA		NA		NA		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		NA		NA		NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	NA		NA		NA		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		NA		NA		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	NA		NA		NA		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***19.6***		***8.8***		***78.6***		***6.6***		***23.3***		***12.3***	
Magnesium	*7439-95-4*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	NA		NA		NA		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		NA		NA		NA		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	NA		NA		NA		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		NA		NA		NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	NA		NA		NA		NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	NA		NA		NA		NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	NA		NA		NA		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P46:6-6 1/2'		P51:2 1/2-3'		P53: 4-4 1/2'		P54: 0-1/2'		P54: 1/2-1'		P55: 0-4	
			Date Sampled:	5/9/2017		10/4/2017		10/3/2017		10/3/2017		10/3/2017		10/3/2017	
			Depth (ft):	6-6.5		2.5-3		4-4.5		0-0.5		0.5-1		0-0.33	
			LAB Sample ID:	JC42929-40		JC52433-1		JC52345-10		JC52345-34		JC52345-35		JC52345-36	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		**5160**		**13700**		**9020**		**12700**		**10800**	
Antimony	*7440-36-0*	*0.27*	*78*	NA		NA		NA		*0.37*	U	*0.37*	U	*0.44*	U
Arsenic	*7440-38-2*	*9.9*	*46*	NA		NA		NA		2.8		3		3.8	
Barium	*7440-39-3*	*283*	*2000*	NA		NA		NA		59.8		90		99.4	
Beryllium	*7440-41-7*	*10*	*40*	NA		NA		NA		0.38		0.54		0.74	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		NA		NA		**1.3**		**1.8**		**0.87**	
Calcium	*7440-70-2*	*--*	*--*	NA		NA		NA		5390		8240		5730	
Chromium	*7440-47-3*	*0.4*	*1*	NA		NA		NA		**19.5**		**27.3**		**16**	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		NA		NA		0.069	U	**7.3**		**6.3**	
Copper	*7440-50-8*	*5.4*	*100*	NA		NA		NA		**59.7**		**86.6**		**44.4**	
Iron	*7439-89-6*	*--*	*--*	NA		NA		NA		8900		14200		11100	
Lead	*7439-92-1*	*0.0537*	*1700*	***12.9***		NA		NA		***45.4***		***68.6***		***56.8***	
Magnesium	*7439-95-4*	*--*	*--*	NA		NA		NA		2550		3760		1980	
Manganese	*7439-96-5*	*220*	*4300*	NA		**256**		17		90.1		162		168	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		NA		NA		***0.67***		***0.13***		***0.091***	
Nickel	*7440-02-0*	*13.6*	*280*	NA		NA		NA		**15.8**		**23.9**		**15.6**	
Potassium	*7440-09-7*	*--*	*--*	NA		NA		NA		30	U	30	U	36	U
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		NA		NA		*0.64*	U	*0.65*	U	*0.75*	U
Silver	*7440-22-4*	*2*	*560*	NA		NA		NA		0.28	U	0.29	U	0.34	U
Sodium	*7440-23-5*	*--*	*--*	NA		NA		NA		13	U	14	U	16	U
Thallium	*7440-28-0*	*1*	*--*	NA		NA		NA		0.4	U	0.4	U	0.47	U
Vanadium	*7440-62-2*	*2*	*280*	NA		NA		NA		**20.8**		**30**		**23.9**	
Zinc	*7440-66-6*	*6.62*	*160*	NA		NA		NA		**190**		**266**		**184**	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P58:0-1/2'	P58:1 1/2-2'	P58:6-6 1/2'	P59:0-1/2'	P59:1 1/2-2'	P59:4 1/2-5'
			Date Sampled:	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017
			Depth (ft):	0-0.5	1.5-2	6-6.5	0-0.5	1.5-2	4.5-5
			LAB Sample ID:	JC52433-9	JC52433-10	JC52433-11	JC52433-14	JC52433-15	JC52433-16
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Aluminum	*7429-90-5*	*50*	*--*	NA	NA	NA	**13100**	**18300**	NA
Antimony	*7440-36-0*	*0.27*	*78*	NA	NA	NA	*0.39* U	*0.43* U	NA
Arsenic	*7440-38-2*	*9.9*	*46*	NA	NA	NA	2.4	6.4	NA
Barium	*7440-39-3*	*283*	*2000*	NA	NA	NA	71.4	**445**	NA
Beryllium	*7440-41-7*	*10*	*40*	NA	NA	NA	0.36	1.3	NA
Cadmium	*7440-43-9*	*0.36*	*140*	NA	NA	NA	**0.55**	**0.74**	NA
Calcium	*7440-70-2*	*--*	*--*	NA	NA	NA	12800	3260	NA
Chromium	*7440-47-3*	*0.4*	*1*	NA	NA	NA	**43.8**	**33.5**	NA
Cobalt	*7440-48-4*	*0.14*	*230*	NA	NA	NA	**10.6**	**14**	NA
Copper	*7440-50-8*	*5.4*	*100*	NA	NA	NA	**101**	**77.3**	NA
Iron	*7439-89-6*	*--*	*--*	NA	NA	NA	24300	36500	NA
Lead	*7439-92-1*	*0.0537*	*1700*	***343***	***18.4***	***9***	***44.1***	***337***	***469***
Magnesium	*7439-95-4*	*--*	*--*	NA	NA	NA	8270	8060	NA
Manganese	*7439-96-5*	*220*	*4300*	NA	NA	NA	**351**	**372**	40.4
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA	NA	*0.015* U	*0.015* U	***0.33***	*0.016* U
Nickel	*7440-02-0*	*13.6*	*280*	NA	NA	NA	**26.9**	**38.7**	NA
Potassium	*7440-09-7*	*--*	*--*	NA	NA	NA	31 U	2930	NA
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA	NA	NA	*0.66* U	*0.75* U	NA
Silver	*7440-22-4*	*2*	*560*	NA	NA	NA	0.30 U	0.67 U	NA
Sodium	*7440-23-5*	*--*	*--*	NA	NA	NA	2750	16 U	NA
Thallium	*7440-28-0*	*1*	*--*	NA	NA	NA	0.41 U	**1.2**	NA
Vanadium	*7440-62-2*	*2*	*280*	NA	NA	NA	**53.2**	**45.9**	NA
Zinc	*7440-66-6*	*6.62*	*160*	NA	NA	NA	**228**	***1280***	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P61:0-1/2'		P61:1 1/2-2'		P61:4-4 /1/2'		P62:0-1/2'		P62:1 1/2-2'		P62:5 1/2-6'	
			Date Sampled:	10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017	
			Depth (ft):	0-0.5		1.5-2		4-4.5		0-0.5		1.5-2		5.5-6	
			LAB Sample ID:	JC52433-21		JC52433-22		JC52433-23		JC52433-26		JC52433-27		JC52433-29	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	**16500**		**5360**		NA		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	*0.38*	U	*0.40*	U	NA		NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	2.3		6.3		NA		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	39		37.3		NA		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	0.21		0.25		NA		NA		NA		0.38	
Cadmium	*7440-43-9*	*0.36*	*140*	0.057	U	0.061	U	NA		NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	9540		45	U	NA		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	**62.2**		**14**		NA		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	**12.4**		0.075	U	NA		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	**129**		**16.2**		NA		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	24600		7200		NA		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***79.9***		***88.7***		NA		***13.7***		***6.1***		NA	
Magnesium	*7439-95-4*	*--*	*--*	7690		14	U	NA		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	**277**		17.6		NA		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	*0.014*	U	*0.014*	U	*0.017*	U	NA		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	**31.9**		0.26	U	NA		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	31	U	33	U	NA		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	*0.65*	U	*0.69*	U	NA		NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	0.29	U	0.31	U	NA		NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	1680		15	U	NA		NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	0.41	U	0.43	U	NA		NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	**59.8**		**35**		NA		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	**109**		**22.2**		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P62:6-6 1/2'		P63:3-3 1/2'		P65: 1'		P65: 3 1/2'		P65: 6 1/2'		P66:0-1/2'	
			Date Sampled:	10/4/2017		10/4/2017		10/3/2017		10/3/2017		10/3/2017		10/4/2017	
			Depth (ft):	6-6.5		3-3.5		1-1		3.5-3.5		6.5-6.5		0-0.5	
			LAB Sample ID:	JC52433-28		JC52433-3		JC52345-7		JC52345-8		JC52345-9		JC52433-31	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		**7570**		NA		NA		NA		**16300**	
Antimony	*7440-36-0*	*0.27*	*78*	NA		NA		NA		NA		NA		*0.42*	U
Arsenic	*7440-38-2*	*9.9*	*46*	NA		NA		NA		NA		NA		2.5	
Barium	*7440-39-3*	*283*	*2000*	NA		NA		NA		NA		NA		50.6	
Beryllium	*7440-41-7*	*10*	*40*	NA		0.46		NA		NA		NA		0.39	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		NA		NA		NA		NA		**0.56**	
Calcium	*7440-70-2*	*--*	*--*	NA		NA		NA		NA		NA		11600	
Chromium	*7440-47-3*	*0.4*	*1*	NA		NA		NA		NA		NA		**41.8**	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		NA		NA		NA		NA		**15.2**	
Copper	*7440-50-8*	*5.4*	*100*	NA		NA		NA		NA		NA		**78.8**	
Iron	*7439-89-6*	*--*	*--*	NA		NA		NA		NA		NA		21400	
Lead	*7439-92-1*	*0.0537*	*1700*	***28.1***		NA		***165***		***13.9***		***20.6***		***33.8***	
Magnesium	*7439-95-4*	*--*	*--*	NA		NA		NA		NA		NA		8360	
Manganese	*7439-96-5*	*220*	*4300*	NA		**395**		NA		NA		NA		**381**	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		NA		NA		NA		NA		*0.014*	U
Nickel	*7440-02-0*	*13.6*	*280*	NA		NA		NA		NA		NA		**34.1**	
Potassium	*7440-09-7*	*--*	*--*	NA		NA		NA		NA		NA		34	U
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		NA		NA		NA		NA		*0.72*	U
Silver	*7440-22-4*	*2*	*560*	NA		NA		NA		NA		NA		0.32	U
Sodium	*7440-23-5*	*--*	*--*	NA		NA		NA		NA		NA		1410	
Thallium	*7440-28-0*	*1*	*--*	NA		NA		NA		NA		NA		0.45	U
Vanadium	*7440-62-2*	*2*	*280*	NA		NA		NA		NA		NA		**66.8**	
Zinc	*7440-66-6*	*6.62*	*160*	NA		NA		NA		NA		NA		**139**	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P66:1 1/2-2'		P66:6-6 1/2'		P67: 0- 1/2'		P67: 1 1/2-2'		P68:0-1/2'		P68:1 1/2-2'	
			Date Sampled:	10/4/2017		10/4/2017		10/3/2017		10/3/2017		10/4/2017		10/4/2017	
			Depth (ft):	1.5-2		6-6.5		0-0.5		1.5-2		0-0.5		1.5-2	
			LAB Sample ID:	JC52433-32		JC52433-33		JC52345-29		JC52345-30		JC52433-35		JC52433-36	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	**12800**		NA		NA		NA		**19600**		**2090**	
Antimony	*7440-36-0*	*0.27*	*78*	*0.43*	U	NA		NA		NA		*0.40*	U	*0.41*	U
Arsenic	*7440-38-2*	*9.9*	*46*	7.6		NA		NA		NA		0.27	U	0.28	U
Barium	*7440-39-3*	*283*	*2000*	154		NA		NA		NA		39.4		0.19	U
Beryllium	*7440-41-7*	*10*	*40*	1		NA		NA		NA		0.37		0.26	
Cadmium	*7440-43-9*	*0.36*	*140*	0.065	U	NA		NA		NA		0.061	U	0.063	U
Calcium	*7440-70-2*	*--*	*--*	4040		NA		NA		NA		10700		46	U
Chromium	*7440-47-3*	*0.4*	*1*	**28.1**		NA		NA		NA		**54.1**		**11.2**	
Cobalt	*7440-48-4*	*0.14*	*230*	**12.2**		NA		NA		NA		**17.1**		0.077	U
Copper	*7440-50-8*	*5.4*	*100*	**48.4**		NA		NA		NA		**91**		2.8	
Iron	*7439-89-6*	*--*	*--*	29700		NA		NA		NA		25400		10100	
Lead	*7439-92-1*	*0.0537*	*1700*	***226***		***9***		***35.6***		***19.2***		***15.7***		***3.4***	
Magnesium	*7439-95-4*	*--*	*--*	5890		NA		NA		NA		10000		15	U
Manganese	*7439-96-5*	*220*	*4300*	**1380**		NA		NA		NA		**415**		31.9	
Mercury	*7439-97-6*	*0.00051*	*0.3*	***0.3***		NA		NA		NA		*0.015*	U	*0.014*	U
Nickel	*7440-02-0*	*13.6*	*280*	**31.8**		NA		NA		NA		**36.4**		0.27	U
Potassium	*7440-09-7*	*--*	*--*	2300		NA		NA		NA		32	U	33	U
Selenium	*7782-49-2*	*0.0276*	*4.1*	*0.74*	U	NA		NA		NA		*0.69*	U	*0.71*	U
Silver	*7440-22-4*	*2*	*560*	0.33	U	NA		NA		NA		0.31	U	0.32	U
Sodium	*7440-23-5*	*--*	*--*	16	U	NA		NA		NA		1760		15	U
Thallium	*7440-28-0*	*1*	*--*	0.92	U	NA		NA		NA		0.43	U	0.44	U
Vanadium	*7440-62-2*	*2*	*280*	**40.7**		NA		NA		NA		**74.7**		**19.5**	
Zinc	*7440-66-6*	*6.62*	*160*	**597**		NA		NA		NA		**63.2**		4.2	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P68:6-6 1/2'		P69: 1-1 1/2'		P69: 1/2-1'		P72:1-2'		P72:3 1/2-4'		P73: 3'	
			Date Sampled:	10/4/2017		10/3/2017		10/3/2017		10/4/2017		10/4/2017		10/3/2017	
			Depth (ft):	6-6.5		1-1.5		0.5-1		1-2		3.5-4		3-3	
			LAB Sample ID:	JC52433-37		JC52345-32		JC52345-31		JC52433-39		JC52433-40		JC52345-23	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	--	**4350**		**14700**		**12600**		NA		NA		**17700**	
Antimony	*7440-36-0*	*0.27*	*78*	*0.40*	U	*0.4*	U	*0.44*	U	NA		NA		*0.44*	U
Arsenic	*7440-38-2*	*9.9*	*46*	0.27	U	4.7		3.3		NA		NA		8.3	
Barium	*7440-39-3*	*283*	*2000*	0.19	U	91.7		68.9		NA		NA		52.1	
Beryllium	*7440-41-7*	*10*	*40*	0.23		0.57		0.44		NA		NA		0.43	
Cadmium	*7440-43-9*	*0.36*	*140*	0.062	U	**1.6**		**1.1**		NA		NA		0.067	U
Calcium	*7440-70-2*	--	--	45	U	9080		7480		NA		NA		1760	
Chromium	*7440-47-3*	*0.4*	*1*	**13.7**		**44**		**34.8**		NA		NA		**24.8**	
Cobalt	*7440-48-4*	*0.14*	*230*	0.076	U	**12.2**		**10**		NA		NA		0.082	U
Copper	*7440-50-8*	*5.4*	*100*	**9.9**		**276**		**239**		NA		NA		**11.4**	
Iron	*7439-89-6*	--	--	5910		24800		18500		NA		NA		20400	
Lead	*7439-92-1*	*0.0537*	*1700*	***4.7***		***99.4***		***63.9***		NA		***555***		***13.2***	
Magnesium	*7439-95-4*	--	--	14	U	5710		4700		NA		NA		1390	
Manganese	*7439-96-5*	*220*	*4300*	6.6		**650**		**508**		NA		NA		34.8	
Mercury	*7439-97-6*	*0.00051*	*0.3*	*0.015*	U	***0.13***		***0.14***		***0.5***		NA		*0.016*	U
Nickel	*7440-02-0*	*13.6*	*280*	0.27	U	**28.7**		**27.9**		NA		NA		8.5	
Potassium	*7440-09-7*	--	--	33	U	1140		36	U	NA		NA		36	U
Selenium	*7782-49-2*	*0.0276*	*4.1*	*0.70*	U	*0.69*	U	*0.75*	U	NA		NA		*0.76*	U
Silver	*7440-22-4*	*2*	*560*	0.31	U	0.31	U	0.34	U	NA		NA		0.34	U
Sodium	*7440-23-5*	--	--	15	U	15	U	16	U	NA		NA		16	U
Thallium	*7440-28-0*	*1*	--	0.44	U	0.43	U	0.47	U	NA		NA		0.47	U
Vanadium	*7440-62-2*	*2*	*280*	**25.8**		**45.3**		**39.2**		NA		NA		**36.7**	
Zinc	*7440-66-6*	*6.62*	*160*	4.1	U	**440**		**348**		NA		NA		**31.1**	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P74: 6-6 1/2'		P75: 5 1/2-6'		P76: 0-1'		P76: 4-4 1/2'		P77		P77	
			Date Sampled:	10/3/2017		10/3/2017		10/3/2017		10/3/2017		2/21/2018		2/21/2018	
			Depth (ft):	6-6.5		5.5-6		0-1		4-4.5		0-0.5		1.5-2	
			LAB Sample ID:	JC52345-11		JC52345-12		JC52345-5		JC52345-6		JC61183-1		JC61183-2	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	--	**10500**		**3500**		NA		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	*0.42*	U	NA		NA		NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	3.7		NA		NA		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	37.5		NA		NA		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	0.67		NA		NA		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	0.064	U	NA		NA		NA		NA		NA	
Calcium	*7440-70-2*	--	--	47	U	NA		NA		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	**18.4**		NA		NA		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	**7.8**		NA		NA		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	**15.2**		NA		NA		NA		NA		NA	
Iron	*7439-89-6*	--	--	10900		NA		NA		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***9.2***		NA		***31***		***39.8***		***19.2***		***9.7***	
Magnesium	*7439-95-4*	--	--	1580		NA		NA		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	36.4		NA		NA		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	*0.016*	U	NA		NA		NA		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	10.6		NA		NA		NA		NA		NA	
Potassium	*7440-09-7*	--	--	34	U	NA		NA		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	*0.72*	U	NA		NA		NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	0.32	U	NA		NA		NA		NA		NA	
Sodium	*7440-23-5*	--	--	15	U	NA		NA		NA		NA		NA	
Thallium	*7440-28-0*	*1*	--	0.45	U	NA		NA		NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	**25.3**		NA		NA		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	**40.3**		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P77	P80:0-1/2'	P82:0-0.5'	P82:1.5-2'	P82:5.5-6'	P83:4 1/2'
			Date Sampled:	2/21/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018
			Depth (ft):	10.5-11	0-0.5	0-0.5	1.5-2	5.5-6	4.5-4.5
			LAB Sample ID:	JC61183-4	JC61097-3	JC61097-5	JC61097-6	JC61097-7	JC61097-8
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Aluminum	*7429-90-5*	*50*	*--*	NA	NA	**11400**	**9330**	**6600**	**6660**
Antimony	*7440-36-0*	*0.27*	*78*	NA	NA	*0.50* U	*0.47* U	*0.44* U	NA
Arsenic	*7440-38-2*	*9.9*	*46*	NA	NA	8.1	3	**20.5**	NA
Barium	*7440-39-3*	*283*	*2000*	NA	NA	37.3	47.3	0.20 U	NA
Beryllium	*7440-41-7*	*10*	*40*	NA	NA	0.56	0.33	0.39	NA
Cadmium	*7440-43-9*	*0.36*	*140*	NA	NA	0.076 U	0.072 U	0.067 U	NA
Calcium	*7440-70-2*	*--*	*--*	NA	NA	1230	53 U	49 U	NA
Chromium	*7440-47-3*	*0.4*	*1*	NA	NA	**21.5**	**9.5**	**18.8**	NA
Cobalt	*7440-48-4*	*0.14*	*230*	NA	NA	0.093 U	0.088 U	0.082 U	NA
Copper	*7440-50-8*	*5.4*	*100*	NA	NA	**27.5**	**8.9**	**29.2**	NA
Iron	*7439-89-6*	*--*	*--*	NA	NA	20600	5240	13500	NA
Lead	*7439-92-1*	*0.0537*	*1700*	NA	NA	***40.4***	***22***	***16.9***	NA
Magnesium	*7439-95-4*	*--*	*--*	NA	NA	1230	17 U	16 U	NA
Manganese	*7439-96-5*	*220*	*4300*	18.9	29.8	55.6	16.6	12.7	NA
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA	***0.064***	***0.042***	***0.045***	*0.017* U	NA
Nickel	*7440-02-0*	*13.6*	*280*	NA	NA	7.3	0.31 U	0.29 U	NA
Potassium	*7440-09-7*	*--*	*--*	NA	NA	1450	38 U	36 U	NA
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA	NA	*0.86* U	*0.81* U	*0.76* U	NA
Silver	*7440-22-4*	*2*	*560*	NA	NA	0.38 U	0.36 U	0.34 U	NA
Sodium	*7440-23-5*	*--*	*--*	NA	NA	18 U	17 U	16 U	NA
Thallium	*7440-28-0*	*1*	*--*	NA	NA	0.54 U	0.51 U	0.47 U	NA
Vanadium	*7440-62-2*	*2*	*280*	NA	NA	**35.8**	**15.5**	**46.1**	NA
Zinc	*7440-66-6*	*6.62*	*160*	NA	NA	**54.9**	**23.5**	**10.1**	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P85:0-1/2'		P85:1 1/2-2'		P85:3 1/2-4'		P86:0-1/2'		P86:1 1/2-2'		P87:4-4 1/2'	
			Date Sampled:	2/20/2018		2/20/2018		2/20/2018		2/20/2018		2/20/2018		2/20/2018	
			Depth (ft):	0-0.5		1.5-2		3.5-4		0-0.5		1.5-2		4-4.5	
			LAB Sample ID:	JC61097-11		JC61097-12		JC61097-13		JC61097-14		JC61097-15		JC61097-16	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	**16000**		**10200**		**9890**		NA		NA		**15800**	
Antimony	*7440-36-0*	*0.27*	*78*	*0.44*	U	*1.3*	U	*1.3*	U	NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	0.30	U	**16**		**11.4**		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	**401**		0.20	U	0.20	U	NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	1.9		1.2		1		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	0.066	U	0.065	U	0.066	U	NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	60900		877		49	U	NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	***20.1***		**37.3**		**58.4**		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	0.081	U	0.080	U	0.081	U	NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	**21.3**		1.3	U	1.4	U	NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	8380		51800		46700		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***24.7***		***18.6***		*1.2*	U	***25.7***		***3.7***		NA	
Magnesium	*7439-95-4*	*--*	*--*	25500		1020		843		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	**2040**		56.9		18.2		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	*0.017*	U	*0.016*	U	*0.015*	U	NA		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	13.3		7		4.7		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	2360		2360		2330		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	*0.75*	U	*2.2*	U	*2.2*	U	NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	1.0	U	0.99	U	1.0	U	NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	16	U	15	U	16	U	NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	1.4	U	1.4	U	1.4	U	NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	**36.2**		**50.2**		**49.5**		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	**92.2**		**71.6**		**29.7**		NA		NA		**58.5**	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P87:6-6 1/2'		P88:0-1/2'		P88:1 1/2-2'		P88:3-3 1/2'		P89:3 1/2-4'		P90	
			Date Sampled:	2/20/2018		2/20/2018		2/20/2018		2/20/2018		2/20/2018		2/21/2018	
			Depth (ft):	6-6.5		0-0.5		1.5-2		3-3.5		3.5-4		10-10.5	
			LAB Sample ID:	JC61097-17		JC61097-18		JC61097-19		JC61097-20		JC61097-21		JC61183-14	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		NA		NA		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	NA		NA		NA		NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	NA		NA		NA		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	NA		NA		NA		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	NA		NA		NA		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		NA		NA		NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	NA		NA		NA		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		NA		NA		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	NA		NA		NA		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***147***		NA		NA		NA		***8.2***		***5.3***	
Magnesium	*7439-95-4*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	NA		NA		NA		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		***0.093***		*0.014*	U	*0.015*	U	*0.016*	U	NA	
Nickel	*7440-02-0*	*13.6*	*280*	NA		NA		NA		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		NA		NA		NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	NA		NA		NA		NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	NA		NA		NA		NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	NA		NA		NA		NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	NA		NA		NA		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	NA		NA		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P90	P90	P90	P91:0-1/2'	P91:1 1/2-2'	P91:5-5 1/2'
			Date Sampled:	2/21/2018	2/21/2018	2/21/2018	2/20/2018	2/20/2018	2/20/2018
			Depth (ft):	3.5-4	3.5-4	5.5-6	0-0.5	1.5-2	5-5.5
			LAB Sample ID:	JC61183-12	JC61183-11	JC61183-13	JC61097-22	JC61097-23	JC61097-24
			LAB:	Accutest	Accutest	Accutest	Accutest	Accutest	Accutest
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***						
Aluminum	*7429-90-5*	*50*	*--*	NA	NA	NA	NA	NA	NA
Antimony	*7440-36-0*	*0.27*	*78*	NA	NA	NA	NA	NA	NA
Arsenic	*7440-38-2*	*9.9*	*46*	NA	NA	NA	NA	NA	NA
Barium	*7440-39-3*	*283*	*2000*	NA	NA	NA	NA	NA	NA
Beryllium	*7440-41-7*	*10*	*40*	NA	NA	NA	NA	NA	NA
Cadmium	*7440-43-9*	*0.36*	*140*	NA	NA	NA	NA	NA	NA
Calcium	*7440-70-2*	*--*	*--*	NA	NA	NA	NA	NA	NA
Chromium	*7440-47-3*	*0.4*	*1*	NA	NA	NA	NA	NA	NA
Cobalt	*7440-48-4*	*0.14*	*230*	NA	NA	NA	NA	NA	NA
Copper	*7440-50-8*	*5.4*	*100*	NA	NA	NA	NA	NA	NA
Iron	*7439-89-6*	*--*	*--*	NA	NA	NA	NA	NA	NA
Lead	*7439-92-1*	*0.0537*	*1700*	NA	***15.4***	***10.7***	NA	NA	NA
Magnesium	*7439-95-4*	*--*	*--*	NA	NA	NA	NA	NA	NA
Manganese	*7439-96-5*	*220*	*4300*	NA	NA	NA	NA	NA	NA
Mercury	*7439-97-6*	*0.00051*	*0.3*	*0.017* U	NA	NA	*0.015* U	***0.75***	***0.046***
Nickel	*7440-02-0*	*13.6*	*280*	NA	NA	NA	NA	NA	NA
Potassium	*7440-09-7*	*--*	*--*	NA	NA	NA	NA	NA	NA
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA	NA	NA	NA	NA	NA
Silver	*7440-22-4*	*2*	*560*	NA	NA	NA	NA	NA	NA
Sodium	*7440-23-5*	*--*	*--*	NA	NA	NA	NA	NA	NA
Thallium	*7440-28-0*	*1*	*--*	NA	NA	NA	NA	NA	NA
Vanadium	*7440-62-2*	*2*	*280*	NA	NA	NA	NA	NA	NA
Zinc	*7440-66-6*	*6.62*	*160*	NA	NA	NA	NA	NA	NA

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P92:0-1/2'		P92:1.5-2'		P92:6-6 1/2'		P93:1'		P93:2 1/2-3'		P94:4-4 1/2'	
			Date Sampled:	2/20/2018		2/20/2018		2/20/2018		2/20/2018		2/20/2018		2/20/2018	
			Depth (ft):	0-0.5		1.5-2		6-6.5		1-1		2.5-3		4-4.5	
			LAB Sample ID:	JC61097-25		JC61097-26		JC61097-27		JC61097-28		JC61097-29		JC61097-31	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	**23500**		**3110**		**20000**		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	*0.42*	U	*0.42*	U	*0.46*	U	NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	2.6		3.5		3.7		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	57.2		0.20	U	57.4		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	0.38		0.31		0.56		NA		NA		0.3	
Cadmium	*7440-43-9*	*0.36*	*140*	0.064	U	0.064	U	0.070	U	NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	11200		48	U	52	U	NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	**68.5**		**7.2**		**26.7**		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	**18**		0.079	U	0.086	U	NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	**273**		3.3		**7.9**		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	29900		13100		16400		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***16.7***		***5.5***		***15.4***		***85.8***		***209***		NA	
Magnesium	*7439-95-4*	*--*	*--*	12500		15	U	1330		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	**432**		54.1		35.1		NA		NA		38	
Mercury	*7439-97-6*	*0.00051*	*0.3*	*0.016*	U	*0.016*	U	*0.017*	U	NA		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	**36.8**		0.28	U	8.1		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	1760		34	U	37	U	NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	*0.72*	U	*0.73*	U	*0.79*	U	NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	0.32	U	0.33	U	0.35	U	NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	1730		15	U	17	U	NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	0.45	U	0.46	U	0.49	U	NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	**80**		**17.9**		**35.1**		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	**77.9**		**8.9**		**27**		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P96		P99		P100		P101: 3-4'		P102: 0-1/2'		P102: 1-2'	
			Date Sampled:	2/21/2018		2/21/2018		2/21/2018		5/24/2018		5/24/2018		5/24/2018	
			Depth (ft):	4.5-5		0-0.25		0-0.25		3-4		0-0.5		1-2	
			LAB Sample ID:	JC61183-6		JC61183-17		JC61183-18		JC66860-1		JC66860-2		JC66860-3	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		**13600**		**8380**		NA		**11900**		**18600**	
Antimony	*7440-36-0*	*0.27*	*78*	NA		*0.43*	U	*0.52*	U	NA		*0.48*	U	***2.5***	
Arsenic	*7440-38-2*	*9.9*	*46*	NA		4		0.35	U	NA		3		7.4	
Barium	*7440-39-3*	*283*	*2000*	NA		34.7		0.24	U	NA		64.2		176	
Beryllium	*7440-41-7*	*10*	*40*	NA		0.48		0.34		NA		0.41		1.3	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		**0.78**		0.08	U	NA		**1**		0.067	U
Calcium	*7440-70-2*	*--*	*--*	NA		11900		6270		NA		6660		3280	
Chromium	*7440-47-3*	*0.4*	*1*	NA		**30**		**39.8**		NA		**32.4**		**37.4**	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		**9.6**		0.098	U	NA		**11.6**		**22.1**	
Copper	*7440-50-8*	*5.4*	*100*	NA		**48.2**		**33.4**		NA		**47.1**		**23.1**	
Iron	*7439-89-6*	*--*	*--*	NA		20900		15100		NA		18800		43600	
Lead	*7439-92-1*	*0.0537*	*1700*	NA		***17.5***		***20.1***		NA		***108***		***69.2***	
Magnesium	*7439-95-4*	*--*	*--*	NA		8230		3470		NA		4710		8610	
Manganese	*7439-96-5*	*220*	*4300*	NA		**301**		**260**		23.5		**319**		**980**	
Mercury	*7439-97-6*	*0.00051*	*0.3*	***0.042***		*0.012*	U	*0.015*	U	NA		***0.074***		***0.09***	
Nickel	*7440-02-0*	*13.6*	*280*	NA		**25.7**		**13.9**		NA		**23.2**		**39.7**	
Potassium	*7440-09-7*	*--*	*--*	NA		1210		42	U	NA		39	U	3250	
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		*0.74*	U	*0.9*	U	NA		*0.83*	U	*1.5*	U
Silver	*7440-22-4*	*2*	*560*	NA		0.33	U	0.4	U	NA		0.37	U	0.68	U
Sodium	*7440-23-5*	*--*	*--*	NA		1290		19	U	NA		17	U	16	U
Thallium	*7440-28-0*	*1*	*--*	NA		0.46	U	0.56	U	NA		0.52	U	0.95	U
Vanadium	*7440-62-2*	*2*	*280*	NA		**47.1**		**49.6**		NA		**42.2**		**40.1**	
Zinc	*7440-66-6*	*6.62*	*160*	NA		**82**		**132**		NA		**357**		**99.8**	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P102: 5-6'		P103: 0-1/2'		P103: 1-2'		P104: 0-1/2'		P105: 0-1/2'		P105: 1 1/2-2'	
			Date Sampled:	5/24/2018		5/24/2018		5/24/2018		5/24/2018		5/24/2018		5/24/2018	
			Depth (ft):	5-6		0-0.5		1-2		0-0.5		0-0.5		1.5-2	
			LAB Sample ID:	JC66860-4		JC66860-6		JC66860-7		JC66860-10		JC66860-14		JC66860-15	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	NA		**18900**		**12800**		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	NA		*0.47*	U	*0.44*	U	NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	NA		2.8		3.5		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	NA		49.9		99		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	0.45		0.37		0.83		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	NA		**0.75**		0.067	U	NA		0.084	U	0.072	U
Calcium	*7440-70-2*	*--*	*--*	NA		9650		2480		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	NA		**52.9**		**26.1**		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	NA		**15.9**		**11.9**		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	NA		**80.9**		**15.5**		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	NA		27000		28300		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***9***		***37.4***		***28.4***		NA		NA		NA	
Magnesium	*7439-95-4*	*--*	*--*	NA		9560		6520		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	38.4		**392**		**438**		NA		NA		NA	
Mercury	*7439-97-6*	*0.00051*	*0.3*	NA		*0.017*	U	***0.057***		***0.089***		NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	NA		**38.2**		**26.4**		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	NA		38	U	2000		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	NA		*0.80*	U	*0.75*	U	NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	NA		0.36	U	0.34	U	NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	NA		1360		16	U	NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	NA		0.50	U	0.47	U	NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	NA		**69**		**31.8**		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	NA		**104**		**65.3**		NA		**79.1**		**64.8**	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P106: 0-1/2'		P106: 1 1/2-2'		P107: 0-1/2'		P107: 1-1 1/2'		P108: 0-1/2'		P108: 1-1 1/2'	
			Date Sampled:	5/24/2018		5/24/2018		5/24/2018		5/24/2018		5/24/2018		5/24/2018	
			Depth (ft):	0-0.5		1.5-2		0-0.5		1-1.5		0-0.5		1-1.5	
			LAB Sample ID:	JC66860-16		JC66860-17		JC66860-18		JC66860-19		JC66860-20		JC66860-21	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	*--*	**7980**		**4490**		NA		NA		NA		NA	
Antimony	*7440-36-0*	*0.27*	*78*	*0.47*	U	*0.40*	U	NA		NA		NA		NA	
Arsenic	*7440-38-2*	*9.9*	*46*	4.7		0.27	U	NA		NA		NA		NA	
Barium	*7440-39-3*	*283*	*2000*	31.9		0.19	U	NA		NA		NA		NA	
Beryllium	*7440-41-7*	*10*	*40*	0.3		0.053	U	NA		NA		NA		NA	
Cadmium	*7440-43-9*	*0.36*	*140*	0.071	U	0.062	U	NA		NA		NA		NA	
Calcium	*7440-70-2*	*--*	*--*	1090		46	U	NA		NA		NA		NA	
Chromium	*7440-47-3*	*0.4*	*1*	**12.7**		**6.9**		NA		NA		NA		NA	
Cobalt	*7440-48-4*	*0.14*	*230*	0.088	U	0.076	U	NA		NA		NA		NA	
Copper	*7440-50-8*	*5.4*	*100*	**17.9**		**7.1**		NA		NA		NA		NA	
Iron	*7439-89-6*	*--*	*--*	9110		5200		NA		NA		NA		NA	
Lead	*7439-92-1*	*0.0537*	*1700*	***57.3***		***6.3***		NA		NA		***61.9***		NA	
Magnesium	*7439-95-4*	*--*	*--*	827		14	U	NA		NA		NA		NA	
Manganese	*7439-96-5*	*220*	*4300*	35		18.4		NA		NA		NA		17.5	
Mercury	*7439-97-6*	*0.00051*	*0.3*	***0.052***		*0.015*	U	***0.046***		*0.016*	U	NA		NA	
Nickel	*7440-02-0*	*13.6*	*280*	7.2		0.27	U	NA		NA		NA		NA	
Potassium	*7440-09-7*	*--*	*--*	38	U	33	U	NA		NA		NA		NA	
Selenium	*7782-49-2*	*0.0276*	*4.1*	*0.81*	U	*0.70*	U	NA		NA		NA		NA	
Silver	*7440-22-4*	*2*	*560*	0.36	U	0.31	U	NA		NA		NA		NA	
Sodium	*7440-23-5*	*--*	*--*	17	U	15	U	NA		NA		NA		NA	
Thallium	*7440-28-0*	*1*	*--*	0.50	U	0.44	U	NA		NA		NA		NA	
Vanadium	*7440-62-2*	*2*	*280*	**22.4**		**11.8**		NA		NA		NA		NA	
Zinc	*7440-66-6*	*6.62*	*160*	**60.7**		**10.1**		NA		NA		NA		NA	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-3
Summary of Metals in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P119: 0-1/2'		P119: 1 1/2-2'		P119: 1/2-1'		P120: 0-1/2'		P120: 1 1/2-2'		P120: 1/2-1'	
			Date Sampled:	9/13/2018		9/13/2018		9/13/2018		9/13/2018		9/13/2018		9/13/2018	
			Depth (ft):	0-0.5		1.5-2		0.5-1		0-0.5		1.5-2		0.5-1	
			LAB Sample ID:	JC73820-11		JC73820-13		JC73820-12		JC73820-14		JC73820-16		JC73820-15	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
Aluminum	*7429-90-5*	*50*	--	**8900**		**9820**		**10500**		**12500**		**9530**		**10100**	
Antimony	*7440-36-0*	*0.27*	*78*	*0.46*	U	*0.44*	U	*0.44*	U	*0.49*	U	*0.44*	U	*0.46*	U
Arsenic	*7440-38-2*	*9.9*	*46*	2.8		3.8		3.5		4.9		4		3.7	
Barium	*7440-39-3*	*283*	*2000*	30.6		50.6		50		79.1		50.8		54.9	
Beryllium	*7440-41-7*	*10*	*40*	0.43		0.45		0.51		0.75		0.49		0.57	
Cadmium	*7440-43-9*	*0.36*	*140*	0.078	U	0.076	U	0.075	U	**0.67**		0.074	U	0.079	U
Calcium	*7440-70-2*	--	--	49	U	652		800		1560		1190		1540	
Chromium	*7440-47-3*	*0.4*	*1*	***13.6***		**17.5**		**18**		***20.8***		**14.7**		***15.5***	
Cobalt	*7440-48-4*	*0.14*	*230*	*0.31*	U	*0.30*	U	*0.30*	U	***8.7***		*0.30*	U	*0.31*	U
Copper	*7440-50-8*	*5.4*	*100*	**11.9**		**18.2**		**17.9**		**22.8**		**18.4**		**14.3**	
Iron	*7439-89-6*	--	--	8970		9990		11200		18300		13100		13500	
Lead	*7439-92-1*	*0.0537*	*1700*	***40***		***64.2***		***88.4***		***63.6***		***86.6***		***51.4***	
Magnesium	*7439-95-4*	--	--	892		1150		1470		2980		1210		2000	
Manganese	*7439-96-5*	*220*	*4300*	32.8		61.4		55.5		**641**		90.6		**232**	
Mercury	*7439-97-6*	*0.00051*	*0.3*	*0.016*	U	***0.038***		*0.015*	U	***0.09***		***0.036***		*0.016*	U
Nickel	*7440-02-0*	*13.6*	*280*	7.3		9.7		10.8		**21.1**		9.9		12	
Potassium	*7440-09-7*	--	--	35	U	34	U	34	U	38	U	34	U	36	U
Selenium	*7782-49-2*	*0.0276*	*4.1*	*0.72*	U	*0.70*	U	*0.70*	U	*0.77*	U	*0.69*	U	*0.73*	U
Silver	*7440-22-4*	*2*	*560*	0.19	U	0.18	U	0.18	U	0.20	U	0.18	U	0.19	U
Sodium	*7440-23-5*	--	--	87	U	84	U	84	U	93	U	83	U	87	U
Thallium	*7440-28-0*	*1*	--	0.65	U	0.63	U	0.62	U	0.69	U	0.62	U	0.65	U
Vanadium	*7440-62-2*	*2*	*280*	**19.4**		**23.7**		**25.2**		**25.3**		**22.7**		**24**	
Zinc	*7440-66-6*	*6.62*	*160*	**30.7**		**44.8**		**46.4**		**160**		**85.8**		**93.1**	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-4

Summary of Extractable Petroleum Hydrocarbons in Soil

Table 1-4
Summary of Extractable Petroleum Hydrocarbons (EPH) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P1:7-7 1/2'		P2:4 1/2-5'		P2:9-10'		P3:4 1/2-5'		P3:15 1/2-16'		P4:8-8 1/2'	
			Date Sampled:	4/27/2017		4/27/2017		4/27/2017		4/27/2017		4/27/2017		4/27/2017	
			Depth (ft):	7-7.5		4.5-5		10-10		4.5-5		15.5-16		8-8.5	
			LAB Sample ID:	JC42109-1		JC42109-2		JC42109-3		JC42109-4		JC42109-5		JC42109-6	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
EPH, NON-FRACTIONATED (C09-C28)	*SRP362*	--	--	3.8	U	3.9	U	3.8	U	1670		3.6	U	189	
EPH, NON-FRACTIONATED (C28-C40)	*SRP373*	--	--	3.8	U	3.9	U	3.8	U	66.2		3.6	U	3.9	U
EPH, TOTAL NON-FRACTIONATED (C09-C40)	*SRP237*	--	--	3.8	U	3.9	U	3.8	U	1740		3.6	U	189	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-4
Summary of Extractable Petroleum Hydrocarbons (EPH) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P4:14-14 1/2'		P5:10'		P6:10'		P7:0-6		P7:9'		P8:6'	
			Date Sampled:	4/27/2017		4/27/2017		4/27/2017		5/8/2017		5/8/2017		5/8/2017	
			Depth (ft):	14-14.5		10-10		10-10		0-0.5		9-9		6-6	
			LAB Sample ID:	JC42109-7		JC42109-8		JC42109-9		JC42929-26		JC42929-27		JC42929-24	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
EPH, NON-FRACTIONATED (C09-C28)	*SRP362*	--	--	3.8	U	4.5	U	3.8	U	36.6		3.8	U	3.8	U
EPH, NON-FRACTIONATED (C28-C40)	*SRP373*	--	--	3.8	U	4.5	U	3.8	U	90.5		3.8	U	3.8	U
EPH, TOTAL NON-FRACTIONATED (C09-C40)	*SRP237*	--	--	3.8	U	4.5	U	3.8	U	127		3.8	U	3.8	U

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-4
Summary of Extractable Petroleum Hydrocarbons (EPH) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P8:12'		P9:0-1'		P9:6'		P10:0-1'		P10:3'		P11:0-1'	
			Date Sampled:	5/8/2017		5/9/2017		5/9/2017		5/9/2017		5/9/2017		5/9/2017	
			Depth (ft):	12-12		0-1		6-6		0-1		3-3		0-1	
			LAB Sample ID:	JC42929-25		JC42929-28		JC42929-29		JC42929-30		JC42929-31		JC42929-32	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
EPH, NON-FRACTIONATED (C09-C28)	*SRP362*	--	--	62.4		1490		3.6	U	4190		6490		495	
EPH, NON-FRACTIONATED (C28-C40)	*SRP373*	--	--	38.9		731		18.9		2610		3710		251	
EPH, TOTAL NON-FRACTIONATED (C09-C40)	*SRP237*	--	--	101		2220		18.9		6790		10200		746	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-4
Summary of Extractable Petroleum Hydrocarbons (EPH) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P11:8'		P17:4'		P17:9'		P18:4-4 1/2'		P18:6-7'		P19:5'	
			Date Sampled:	5/9/2017		4/28/2017		4/28/2017		5/9/2017		5/9/2017		5/8/2017	
			Depth (ft):	8-8		4-4		9-9		4-4.5		6-7		5-5	
			LAB Sample ID:	JC42929-33		JC42231-19		JC42231-20		JC42929-34		JC42929-35		JC42929-13	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
EPH, NON-FRACTIONATED (C09-C28)	*SRP362*	--	--	195		5280		1270		117		3.6	U	4.1	U
EPH, NON-FRACTIONATED (C28-C40)	*SRP373*	--	--	3.5	U	1910		1010		83.3		3.6	U	19	
EPH, TOTAL NON-FRACTIONATED (C09-C40)	*SRP237*	--	--	195		7190		2280		200		3.6	U	19	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-4
Summary of Extractable Petroleum Hydrocarbons (EPH) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P19:16'		P20:5'		P21:5'		P22:0-6		P23:0-6		P24:0-6	
			Date Sampled:	5/8/2017		5/8/2017		5/8/2017		5/8/2017		5/8/2017		5/8/2017	
			Depth (ft):	16-16		5-5		5-5		0-0.5		0-0.5		0-0.5	
			LAB Sample ID:	JC42929-14		JC42929-22		JC42929-21		JC42929-49		JC42929-51		JC42929-50	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
EPH, NON-FRACTIONATED (C09-C28)	*SRP362*	--	--	4.1	U	54.7		3.6	U	925		110		241	
EPH, NON-FRACTIONATED (C28-C40)	*SRP373*	--	--	4.1	U	160		3.6	U	1800		264		447	
EPH, TOTAL NON-FRACTIONATED (C09-C40)	*SRP237*	--	--	4.1	U	215		3.6	U	2730		374		688	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-4
Summary of Extractable Petroleum Hydrocarbons (EPH) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P41:5'		P46:6-6 1/2'		P59:9 1/2-10'		P60:0- 1/2'		P60:1 1/2-2'		P60:7 1/2-8	
			Date Sampled:	5/8/2017		5/9/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017	
			Depth (ft):	5-5		6-6.5		9.5-10		0-0.5		1.5-2		7.5-8	
			LAB Sample ID:	JC42929-17		JC42929-40		JC52433-17		JC52433-18		JC52433-19		JC52433-20	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
EPH, NON-FRACTIONATED (C09-C28)	*SRP362*	--	--	4.0	U	3.6	U	106		290		4.0	U	548	
EPH, NON-FRACTIONATED (C28-C40)	*SRP373*	--	--	35.9		20		28.8		427		4.0	U	126	
EPH, TOTAL NON-FRACTIONATED (C09-C40)	*SRP237*	--	--	35.9		20		135		717		4.0	U	673	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-4
Summary of Extractable Petroleum Hydrocarbons (EPH) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P62:8-8 1/2'		P63:3-3 1/2'		P63:7-7 1/2'		P66:0-1/2'		P66:1 1/2-2'		P69: 1-1 1/2'	
			Date Sampled:	10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/4/2017		10/3/2017	
			Depth (ft):	8-8.5		3-3.5		7-7.5		0-0.5		1.5-2		1-1.5	
			LAB Sample ID:	JC52433-30		JC52433-3		JC52433-4		JC52433-31		JC52433-32		JC52345-32	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
EPH, NON-FRACTIONATED (C09-C28)	*SRP362*	--	--	3.6	U	12.1		20.9		62.6		90.6		262	
EPH, NON-FRACTIONATED (C28-C40)	*SRP373*	--	--	3.6	U	3.6	U	3.7	U	131		81.9		454	
EPH, TOTAL NON-FRACTIONATED (C09-C40)	*SRP237*	--	--	3.6	U	12.1		20.9		194		172		716	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-4
Summary of Extractable Petroleum Hydrocarbons (EPH) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P69: 1/2-1'		P70: 0-1/2'		P70: 1 1/2-2'		P71: 0-1/2'		P71: 1 1/2-2'		P72:6 1/2-7'	
			Date Sampled:	10/3/2017		10/3/2017		10/3/2017		10/3/2017		10/3/2017		10/4/2017	
			Depth (ft):	0.5-1		0-0.5		1.5-2		0-0.5		1.5-2		6.5-7	
			LAB Sample ID:	JC52345-31		JC52345-19		JC52345-20		JC52345-13		JC52345-14		JC52433-41	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***												
EPH, NON-FRACTIONATED (C09-C28)	*SRP362*	--	--	219		32.9		21.3		218		13.3		184	
EPH, NON-FRACTIONATED (C28-C40)	*SRP373*	--	--	349		32.9		32.1		185		22.4		58.5	
EPH, TOTAL NON-FRACTIONATED (C09-C40)	*SRP237*	--	--	568		65.8		53.4		402		35.7		243	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 1-4
Summary of Extractable Petroleum Hydrocarbons (EPH) in Soil ESC
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	P85:0-1/2'		P85:1 1/2-2'		P99		P100	
			Date Sampled:	2/20/2018		2/20/2018		2/21/2018		2/21/2018	
			Depth (ft):	0-0.5		1.5-2		0-0.25		0-0.25	
			LAB Sample ID:	JC61097-11		JC61097-12		JC61183-17		JC61183-18	
			LAB:	Accutest		Accutest		Accutest		Accutest	
Parameter (mg/kg)	***CAS No.***	***LSSL***	***USSL***								
EPH, NON-FRACTIONATED (C09-C28)	*SRP362*	--	--	65.4		44.6		31.8		228	
EPH, NON-FRACTIONATED (C28-C40)	*SRP373*	--	--	209		34.6		48.4		211	
EPH, TOTAL NON-FRACTIONATED (C09-C40)	*SRP237*	--	--	274		79.2		80.2		438	

ESC = NJDEP Ecological Screening Criteria, March 2009
LSSL = Lowest Soil Sceening Level (per NJDEP ESC)
USSL = Upper Soil Sceening Level (per NJDEP ESC)
Bold indicates concentrations above the LSSL
Bold and underline indicates concentrations above the USSL
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

TABLE 2

Summary of Groundwater Analytical Results

TABLE 2-1

Summary of Volatile Organic Compounds (VOCs) in Groundwater

Table 2-1
Summary of Volatile Organic Compounds (VOCs) in Ground Water
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	MW17		MW18		MW19		MW20		MW20		MW21	
			Date Sampled:	10/3/2018		10/3/2018		10/4/2018		10/3/2018		1/18/2019		1/18/2019	
			LAB Sample ID:	JC75394-2		JC75394-4		JC75394-5		JC75394-3		JC81574-2		JC81574-3	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***												
Acetone	*67-64-1*	--	--	6	U	6	U	144	J	6	U	6	U	6	U
Benzene	*71-43-2*	--	*114*	0.43	U	0.43	U	868		0.43	U	0.43	U	0.43	U
Bromochloromethane	*74-97-5*	--	--	0.48	U	0.48	U	9.6	U	0.48	U	0.48	U	0.48	U
Bromodichloromethane	*75-27-4*	--	--	0.58	U	0.58	U	12	U	0.58	U	0.58	U	0.58	U
Bromoform	*75-25-2*	--	*230*	0.63	U	0.63	U	13	U	0.63	U	0.63	U	0.63	U
Bromomethane	*74-83-9*	--	*16*	1.6	U	1.6	U	33	U	1.6	U	1.6	U	1.6	U
2-Butanone (MEK)	*78-93-3*	--	--	6.9	U	6.9	U	140	U	6.9	U	6.9	U	6.9	U
Carbon Disulfide	*75-15-0*	--	--	0.95	U	0.95	U	19	U	0.95	U	0.95	U	0.95	U
Carbon tetrachloride	*56-23-5*	--	*240*	0.55	U	0.55	U	11	U	0.55	U	0.55	U	0.55	U
Chlorobenzene	*108-90-7*	--	*47*	0.56	U	0.56	U	11	U	0.56	U	0.56	U	0.56	U
Chloroethane	*75-00-3*	--	--	0.73	U	0.73	U	15	U	0.73	U	0.73	U	0.73	U
Chloroform	*67-66-3*	--	*140*	0.5	U	0.5	U	10	U	0.5	U	0.5	U	0.5	U
Chloromethane	*74-87-3*	--	--	0.76	U	0.76	U	15	U	0.76	U	0.76	U	0.76	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.51	U	0.51	U	65.9		0.51	U	0.51	U	0.51	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.47	U	0.47	U	9.4	U	0.47	U	0.47	U	0.47	U
Cyclohexane	*110-82-7*	--	--	0.78	U	0.78	U	103		0.78	U	0.78	U	0.78	U
Dibromochloromethane	*124-48-1*	--	--	0.56	U	0.56	U	11	U	0.56	U	0.56	U	0.56	U
1,2-Dibromoethane	*106-93-4*	--	--	0.0053	U	0.0053	U	0.0053	U	0.0053	U	0.0052	U	0.0052	U
1,2-Dichlorobenzene	*95-50-1*	--	*14*	0.53	U	0.53	U	11	U	0.53	U	0.53	U	0.53	U
1,3-Dichlorobenzene	*541-73-1*	--	*38*	0.54	U	0.54	U	11	U	0.54	U	0.54	U	0.54	U
1,4-Dichlorobenzene	*106-46-7*	--	*9.4*	0.51	U	0.51	U	10	U	0.51	U	0.51	U	0.51	U
Dichlorodifluoromethane	*75-71-8*	--	--	1.4	U	1.4	U	27	U	1.4	U	1.4	U	1.4	U
1,1-Dichloroethane	*75-34-3*	--	--	0.57	U	0.57	U	11	U	0.57	U	0.57	U	0.57	U
1,2-Dichloroethane	*107-06-2*	--	*910*	0.6	U	0.6	U	12	U	0.6	U	0.6	U	0.6	U
1,1-Dichloroethene	*75-35-4*	--	*65*	0.59	U	0.59	U	12	U	0.59	U	0.59	U	0.59	U
1,2-Dichloropropane	*78-87-5*	--	*360*	0.51	U	0.51	U	10	U	0.51	U	0.51	U	0.51	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND		ND		ND		ND		ND		ND	
Ethylbenzene	*100-41-4*	--	*14*	0.6	U	0.6	U	1790		0.6	U	0.6	U	0.6	U
2-Hexanone	*591-78-6*	--	--	2	U	2	U	41	U	2	U	2	U	2	U
Isopropylbenzene	*98-82-8*	--	--	0.65	U	0.65	U	156		0.65	U	0.65	U	0.65	U
Methyl Acetate	*79-20-9*	--	--	0.8	U	0.8	U	16	U	0.8	U	0.8	U	0.8	U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	*151000*	*51000*	0.51	U	0.51	U	10	U	0.51	U	0.51	U	0.51	U
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	1.9	U	1.9	U	37	U	1.9	U	1.9	U	1.9	U
Methylcyclohexane	*108-87-2*	--	--	0.6	U	0.6	U	129		0.6	U	0.6	U	0.6	U

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 2-1
Summary of Volatile Organic Compounds (VOCs) in Ground Water
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	MW17		MW18		MW19		MW20		MW20		MW21	
			Date Sampled:	10/3/2018		10/3/2018		10/4/2018		10/3/2018		1/18/2019		1/18/2019	
			LAB Sample ID:	JC75394-2		JC75394-4		JC75394-5		JC75394-3		JC81574-2		JC81574-3	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***												
Methylene chloride	*75-09-2*	--	*940*	1	U	1	U	20	U	1	U	1	U	1	U
Styrene	*100-42-5*	--	*32*	0.7	U	0.7	U	14	U	0.7	U	0.7	U	0.7	U
1,1,2,2-Tetrachloroethane	*79-34-5*	--	*380*	0.65	U	0.65	U	13	U	0.65	U	0.65	U	0.65	U
Tetrachloroethene	*127-18-4*	--	*45*	0.9	U	0.9	U	18	U	0.9	U	0.9	U	0.9	U
Toluene	*108-88-3*	--	*253*	0.53	U	0.53	U	1960		0.53	U	0.53	U	0.53	U
trans-1,2-Dichloroethene	*156-60-5*	--	*970*	0.54	U	0.54	U	11	U	0.54	U	0.54	U	0.54	U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.43	U	0.43	U	8.6	U	0.43	U	0.43	U	0.43	U
Freon 113	*76-13-1*	--	--	1.9	U	1.9	U	39	U	1.9	U	1.9	U	1.9	U
1,2,3-Trichlorobenzene	*87-61-6*	--	--	0.5	U	0.5	U	10	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	*71-55-6*	--	*76*	0.54	U	0.54	U	11	U	0.54	U	0.54	U	0.54	U
1,1,2-Trichloroethane	*79-00-5*	--	*500*	0.53	U	0.53	U	11	U	0.53	U	0.53	U	0.53	U
Trichloroethene	*79-01-6*	--	*47*	0.53	U	0.53	U	11	U	0.53	U	0.53	U	0.53	U
Trichlorofluoromethane	*75-69-4*	--	--	0.84	U	0.84	U	17	U	0.84	U	0.84	U	0.84	U
1,2,4-Trichlorobenzene	*120-82-1*	--	*30*	0.5	U	0.5	U	10	U	0.5	U	0.5	U	0.5	U
1,2,4-Trimethylbenzene	*95-63-6*	--	--	1	U	1.1	J	2060		1	U	1	U	1	U
Vinyl Chloride	*75-01-4*	--	*930*	0.79	U	0.79	U	16	U	0.79	U	0.79	U	0.79	U
m,p-Xylene	*179601-23-1*	--	--	0.78	U	0.78	U	6800		0.78	U	0.78	U	0.78	U
o-Xylene	*95-47-6*	--	--	0.59	U	0.59	U	1990		0.59	U	0.59	U	0.59	U
Xylenes (total)	*1330-20-7*	--	*27*	0.59	U	0.59	U	8790		0.59	U	0.59	U	0.59	U
Total VOC TIC	*SRP170*	--	--	ND		6.1	J	5840	J	ND		ND		ND	

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

TABLE 2-2

Summary of Semi-Volatile Organic Compounds (SVOCs) in Groundwater

Table 2-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Ground Water
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	MW17		MW18		MW18		MW18 FILTERED		MW19		MW20	
			Date Sampled:	10/3/2018		10/3/2018		11/15/2018		11/15/2018		10/4/2018		10/3/2018	
			LAB Sample ID:	JC75394-2		JC75394-4		JC78017-2		JC78017-3		JC75394-5		JC75394-3	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***												
Acenaphthene	*83-32-9*	--	*38*	0.18	U	4.1		3.4		3.2		0.36	J	0.18	U
Acenaphthylene	*208-96-8*	--	*4840*	0.13	U	0.73	J	0.64	J	0.55	J	0.13	U	0.13	U
Acetophenone	*98-86-2*	--	--	0.2	U	0.43	J	0.20	U	0.20	U	0.2	U	0.2	U
Anthracene	*120-12-7*	--	*0.035*	0.2	U	1.4		1.3		0.20	U	0.2	U	0.2	U
Atrazine	*1912-24-9*	--	--	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
Benzaldehyde	*100-52-7*	--	--	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Benzo(a)pyrene	*50-32-8*	--	*0.014*	0.032	U	0.032	U	0.032	U	0.032	U	0.032	U	0.032	U
Benzo(a)anthracene	*56-55-3*	--	*0.025*	0.022	U	0.208		0.135		0.022	U	0.022	U	0.022	U
Benzo(b)fluoranthene	*205-99-2*	--	*9.07*	0.0419	J	0.041	U	0.041	U	0.042	U	0.041	U	0.0437	J
Benzo(ghi)perylene	*191-24-2*	--	*7.64*	0.32	U	0.32	U	0.32	U	0.33	U	0.32	U	0.32	U
Benzo(k)fluoranthene	*207-08-9*	--	--	0.032	U	0.032	U	0.032	U	0.032	U	0.032	U	0.032	U
1,1-Biphenyl	*92-52-4*	--	--	0.2	U	1.4		1.2		0.48	J	1.7		0.2	U
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	0.26	U	0.26	U	0.26	U	0.27	U	0.26	U	0.26	U
bis(2-Chloroethyl)ether	*111-44-4*	--	*1900*	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
bis(2-Chloroisopropyl)ether	*108-60-1*	--	--	0.38	U	0.38	U	0.38	U	0.39	U	0.38	U	0.38	U
bis(2-Ethylhexyl)phthalate	*117-81-7*	--	*0.3*	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
4-Bromophenyl-phenylether	*101-55-3*	--	--	0.38	U	0.38	U	0.38	U	0.39	U	0.38	U	0.38	U
Butyl benzyl phthalate	*85-68-7*	--	*23*	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U	0.44	U
Caprolactam	*105-60-2*	--	--	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U
Carbazole	*86-74-8*	--	--	0.22	U	5.7		4.8		3.3		0.47	J	0.22	U
2-Chloronaphthalene	*91-58-7*	--	*0.396*	0.22	U	0.22	U	0.22	U	0.23	U	0.22	U	0.22	U
2-Chlorophenol	*95-57-8*	--	*24*	0.78	U	0.78	U	0.78	U	0.79	U	0.78	U	0.78	U
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
Chrysene	*218-01-9*	--	--	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
Dibenz(a,h)anthracene	*53-70-3*	--	--	0.034	U	0.034	U	0.034	U	0.035	U	0.034	U	0.034	U
Dibenzofuran	*132-64-9*	--	--	0.21	U	2.6	J	2.6	J	0.95	J	0.21	U	0.21	U
3,3'-Dichlorobenzidine	*91-94-1*	--	*4.5*	0.48	U	0.48	U	0.48	U	0.49	U	0.48	U	0.48	U
2,4-Dichlorophenol	*120-83-2*	--	*11*	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
Diethyl phthalate	*84-66-2*	--	*110*	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
2,4-Dimethyl phenol	*105-67-9*	--	*100*	2.3	U	2.3	U	2.3	U	2.3	U	83.4		2.3	U
Dimethyl phthalate	*131-11-3*	--	--	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
Di-n-butyl phthalate	*84-74-2*	--	*9.7*	0.47	U	0.47	U	0.47	U	0.48	U	0.47	U	0.47	U
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
2,4-Dinitrophenol	*51-28-5*	--	*19*	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 2-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Ground Water
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	MW17		MW18		MW18	MW18 FILTERED		MW19		MW20	
			Date Sampled:	10/3/2018		10/3/2018		11/15/2018	11/15/2018		10/4/2018		10/3/2018	
			LAB Sample ID:	JC75394-2		JC75394-4		JC78017-2	JC78017-3		JC75394-5		JC75394-3	
			LAB:	Accutest		Accutest		Accutest	Accutest		Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***											
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	ND		ND		ND	ND		ND		ND	
2,4-Dinitrotoluene	*121-14-2*	--	*44*	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U
2,6-Dinitrotoluene	*606-20-2*	--	--	0.45	U	0.45	U	0.45	U	0.46	U	0.45	U	0.45	U
Di-n-octyl phthalate	*117-84-0*	--	--	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
1,4-Dioxane	*123-91-1*	--	--	0.046	U	0.046	U	0.046	U	0.047	U	0.046	U	0.046	U
Fluoranthene	*206-44-0*	--	*1.9*	0.16	U	1.6		1.4		0.16	U	0.16	U	0.16	U
Fluorene	*86-73-7*	--	*19*	0.16	U	4.4		4		2.6		0.25	J	0.16	U
Hexachlorobenzene	*118-74-1*	--	*0.0003*	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Hexachlorobutadiene	*87-68-3*	--	*0.053*	0.017	U	0.017	U	0.017	U	0.017	U	0.017	U	0.017	U
Hexachlorocyclopentadiene	*77-47-4*	--	*77*	2.6	U	2.6	U	2.6	U	2.7	U	2.6	U	2.6	U
Hexachloroethane	*67-72-1*	--	*8*	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
High Molecular Weight PAHs	*SRP420*	--	--	0.0419		1.408		1.045	ND		ND		0.0824	
Indeno(1,2,3-cd)pyrene	*193-39-5*	--	*4.31*	0.036	U	0.036	U	0.036	U	0.037	U	0.036	U	0.0387	J
Isophorone	*78-59-1*	--	*920*	0.26	U	0.26	U	0.26	U	0.27	U	0.26	U	0.26	U
Low Molecular Weight PAHs	*SRP419*	--	--	ND		71.33		49.84	32.45		581.86		ND	
1-Methylnaphthalene	*90-12-0*	--	--	NA		NA		4	3.8		NA		NA	
2-Methylnaphthalene	*91-57-6*	--	*330*	0.2	U	7.1		6.5	4.2		133		0.2	U
2-Methylphenol	*95-48-7*	--	--	0.85	U	0.85	U	0.85	U	0.85	U	11		0.85	U
3&4-Methylphenol	*65794-96-9*	--	--	0.84	U	27.3		54.1	60.9		11.8		0.84	U
Naphthalene	*91-20-3*	--	*13*	0.22	U	45.1		25.6	20.8		448		0.22	U
2-Nitroaniline	*88-74-4*	--	--	0.26	U	0.26	U	0.26	U	0.27	U	0.26	U	0.26	U
3-Nitroaniline	*99-09-2*	--	--	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
4-Nitroaniline	*100-01-6*	--	--	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
Nitrobenzene	*98-95-3*	--	*220*	0.61	U	0.61	U	0.61	U	0.62	U	0.61	U	0.61	U
2-Nitrophenol	*88-75-5*	--	--	0.91	U	0.91	U	0.91	U	0.92	U	0.91	U	0.91	U
4-Nitrophenol	*100-02-7*	--	*60*	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U
n-Nitrosodiphenylamine	*86-30-6*	--	--	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
p-Chloroaniline	*106-47-8*	--	--	0.32	U	0.32	U	0.32	U	0.33	U	0.32	U	0.32	U
p-Chloro-m-cresol	*59-50-7*	--	--	0.85	U	0.85	U	0.85	U	0.86	U	0.85	U	0.85	U
Pentachlorophenol	*87-86-5*	*5.23*	*4.1*	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
Phenanthrene	*85-01-8*	--	*3.6*	0.17	U	6.9		7	1.1		0.25	J	0.17	U
Phenol	*108-95-2*	--	*180*	0.37	U	0.41	J	0.6	J	0.82	J	4.4		0.37	U
Pyrene	*129-00-0*	--	*0.3*	0.21	U	1.2		0.91	J	0.21	U	0.21	U	0.21	U

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 2-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Ground Water
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	MW17		MW18		MW18		MW18 FILTERED		MW19		MW20	
			Date Sampled:	10/3/2018		10/3/2018		11/15/2018		11/15/2018		10/4/2018		10/3/2018	
			LAB Sample ID:	JC75394-2		JC75394-4		JC78017-2		JC78017-3		JC75394-5		JC75394-3	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***												
1,2,4,5-Tetrachlorobenzene	*95-94-3*	--	*3*	0.35	U	0.35	U	0.35	U	0.36	U	0.35	U	0.35	U
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Total PAHs	*130498-29-2*	--	--	0.0419		72.738		50.885		32.45		581.86		0.0824	
2,4,5-Trichlorophenol	*95-95-4*	--	--	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
2,4,6-Trichlorophenol	*88-06-2*	--	*4.9*	0.88	U	0.88	U	0.88	U	0.89	U	0.88	U	0.88	U
Total SVOC TIC	*SRP171*	--	--	12.4	J	51.2	J	174.1	J	58	J	3717.7	J	7	J
Total VOC and SVOC TICs	*SRP351*	--	--	12.4		57.3		NA		NA		9557.7		7	

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 2-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Ground Water
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	MW20		MW20		MW21	
			Date Sampled:	11/15/2018		1/18/2019		1/18/2019	
			LAB Sample ID:	JC78017-4		JC81574-2		JC81574-3	
			LAB:	Accutest		Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***						
Acenaphthene	*83-32-9*	--	*38*	5		0.18	U	0.18	U
Acenaphthylene	*208-96-8*	--	*4840*	0.75	J	0.13	U	0.13	U
Acetophenone	*98-86-2*	--	--	0.20	U	0.2	U	0.2	U
Anthracene	*120-12-7*	--	*0.035*	1.7		0.2	U	0.2	U
Atrazine	*1912-24-9*	--	--	0.43	U	0.43	U	0.43	U
Benzaldehyde	*100-52-7*	--	--	0.28	U	0.28	U	0.28	U
Benzo(a)pyrene	*50-32-8*	--	*0.014*	0.032	U	0.032	U	0.032	U
Benzo(a)anthracene	*56-55-3*	--	*0.025*	0.121		0.022	U	0.022	U
Benzo(b)fluoranthene	*205-99-2*	--	*9.07*	0.041	U	0.042	U	0.041	U
Benzo(ghi)perylene	*191-24-2*	--	*7.64*	0.32	U	0.33	U	0.32	U
Benzo(k)fluoranthene	*207-08-9*	--	--	0.032	U	0.032	U	0.032	U
1,1-Biphenyl	*92-52-4*	--	--	1.8		0.2	U	0.2	U
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	0.26	U	0.27	U	0.26	U
bis(2-Chloroethyl)ether	*111-44-4*	--	*1900*	0.24	U	0.24	U	0.24	U
bis(2-Chloroisopropyl)ether	*108-60-1*	--	--	0.38	U	0.39	U	0.38	U
bis(2-Ethylhexyl)phthalate	*117-81-7*	--	*0.3*	1.6	U	1.6	U	1.6	U
4-Bromophenyl-phenylether	*101-55-3*	--	--	0.38	U	0.39	U	0.38	U
Butyl benzyl phthalate	*85-68-7*	--	*23*	0.44	U	0.44	U	0.44	U
Caprolactam	*105-60-2*	--	--	0.62	U	0.62	U	0.62	U
Carbazole	*86-74-8*	--	--	6.5		0.22	U	0.22	U
2-Chloronaphthalene	*91-58-7*	--	*0.396*	0.22	U	0.23	U	0.22	U
2-Chlorophenol	*95-57-8*	--	*24*	0.78	U	0.79	U	0.78	U
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	0.35	U	0.35	U	0.35	U
Chrysene	*218-01-9*	--	--	0.17	U	0.17	U	0.17	U
Dibenz(a,h)anthracene	*53-70-3*	--	--	0.034	U	0.035	U	0.034	U
Dibenzofuran	*132-64-9*	--	--	3.6	J	0.21	U	0.21	U
3,3'-Dichlorobenzidine	*91-94-1*	--	*4.5*	0.48	U	0.49	U	0.48	U
2,4-Dichlorophenol	*120-83-2*	--	*11*	1.2	U	1.2	U	1.2	U
Diethyl phthalate	*84-66-2*	--	*110*	0.25	U	0.25	U	0.25	U
2,4-Dimethyl phenol	*105-67-9*	--	*100*	2.3	U	2.3	U	2.3	U
Dimethyl phthalate	*131-11-3*	--	--	0.21	U	0.21	U	0.21	U
Di-n-butyl phthalate	*84-74-2*	--	*9.7*	0.47	U	0.48	U	0.47	U
4,6-Dinitro-2-methylphenol	*534-52-1*	--	--	0.15	U	0.15	U	0.15	U
2,4-Dinitrophenol	*51-28-5*	--	*19*	1.5	U	1.5	U	1.5	U

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 2-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Ground Water
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	MW20		MW20		MW21	
			Date Sampled:	11/15/2018		1/18/2019		1/18/2019	
			LAB Sample ID:	JC78017-4		JC81574-2		JC81574-3	
			LAB:	Accutest		Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***						
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	ND		ND		ND	
2,4-Dinitrotoluene	*121-14-2*	--	*44*	0.53	U	0.53	U	0.53	U
2,6-Dinitrotoluene	*606-20-2*	--	--	0.45	U	0.46	U	0.45	U
Di-n-octyl phthalate	*117-84-0*	--	--	0.22	U	0.22	U	0.22	U
1,4-Dioxane	*123-91-1*	--	--	0.046	U	0.0571	JB	0.046	U
Fluoranthene	*206-44-0*	--	*1.9*	1.2		0.16	U	0.16	U
Fluorene	*86-73-7*	--	*19*	5.7		0.2	J	0.16	U
Hexachlorobenzene	*118-74-1*	--	*0.0003*	0.011	U	0.011	U	0.011	U
Hexachlorobutadiene	*87-68-3*	--	*0.053*	0.017	U	0.017	U	0.017	U
Hexachlorocyclopentadiene	*77-47-4*	--	*77*	2.6	U	2.7	U	2.6	U
Hexachloroethane	*67-72-1*	--	*8*	0.37	U	0.37	U	0.37	U
High Molecular Weight PAHs	*SRP420*	--	--	0.911		ND		ND	
Indeno(1,2,3-cd)pyrene	*193-39-5*	--	*4.31*	0.036	U	0.037	U	0.036	U
Isophorone	*78-59-1*	--	*920*	0.26	U	0.27	U	0.26	U
Low Molecular Weight PAHs	*SRP419*	--	--	59.45		0.45		ND	
1-Methylnaphthalene	*90-12-0*	--	--	5.3		NA		NA	
2-Methylnaphthalene	*91-57-6*	--	*330*	8.4		0.2	U	0.2	U
2-Methylphenol	*95-48-7*	--	--	0.85	U	0.85	U	0.85	U
3&4-Methylphenol	*65794-96-9*	--	--	55.8		0.85	U	0.84	U
Naphthalene	*91-20-3*	--	*13*	27.8		0.25	J	0.22	U
2-Nitroaniline	*88-74-4*	--	--	0.26	U	0.27	U	0.26	U
3-Nitroaniline	*99-09-2*	--	--	0.37	U	0.37	U	0.37	U
4-Nitroaniline	*100-01-6*	--	--	0.42	U	0.42	U	0.42	U
Nitrobenzene	*98-95-3*	--	*220*	0.61	U	0.62	U	0.61	U
2-Nitrophenol	*88-75-5*	--	--	0.91	U	0.92	U	0.91	U
4-Nitrophenol	*100-02-7*	--	*60*	1.1	U	1.1	U	1.1	U
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	0.46	U	0.46	U	0.46	U
n-Nitrosodiphenylamine	*86-30-6*	--	--	0.21	U	0.21	U	0.21	U
p-Chloroaniline	*106-47-8*	--	--	0.32	U	0.33	U	0.32	U
p-Chloro-m-cresol	*59-50-7*	--	--	0.85	U	0.86	U	0.85	U
Pentachlorophenol	*87-86-5*	*5.23*	*4.1*	0.12	U	0.12	U	0.12	U
Phenanthrene	*85-01-8*	--	*3.6*	8.9		0.17	U	0.17	U
Phenol	*108-95-2*	--	*180*	0.59	J	0.38	U	0.37	U
Pyrene	*129-00-0*	--	*0.3*	0.79	J	0.21	U	0.21	U

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 2-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Ground Water
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	MW20		MW20		MW21	
			Date Sampled:	11/15/2018		1/18/2019		1/18/2019	
			LAB Sample ID:	JC78017-4		JC81574-2		JC81574-3	
			LAB:	Accutest		Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***						
1,2,4,5-Tetrachlorobenzene	*95-94-3*	--	*3*	0.35	U	0.36	U	0.35	U
2,3,4,6-Tetrachlorophenol	*58-90-2*	--	--	1.4	U	1.4	U	1.4	U
Total PAHs	*130498-29-2*	--	--	60.361		0.45		ND	
2,4,5-Trichlorophenol	*95-95-4*	--	--	1.3	U	1.3	U	1.3	U
2,4,6-Trichlorophenol	*88-06-2*	--	*4.9*	0.88	U	0.89	U	0.88	U
Total SVOC TIC	*SRP171*	--	--	169.5	J	4.4	J	5.1	J
Total VOC and SVOC TICs	*SRP351*	--	--	NA		4.4		5.1	

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

TABLE 2-3

Summary of Metals in Groundwater

Table 2-3
Summary of Metals in Ground Water
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	MW17		MW18		MW19		MW20		MW20		MW20	
			Date Sampled:	10/3/2018		10/3/2018		10/4/2018		10/3/2018		1/18/2019		1/18/2019	
			LAB Sample ID:	JC75394-2		JC75394-4		JC75394-5		JC75394-3		JC81574-2		JC81574-2F	
			LAB:	Accutest		Accutest		Accutest		Accutest		Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***												
Aluminum	*7429-90-5*	--	--	2130		46	U	60700		1870		6130		2480	
Antimony	*7440-36-0*	--	*80*	4.7	U	4.7	U	47	U	4.7	U	4.7	U	4.7	U
Arsenic	*7440-38-2*	*340*	*150*	1.6		2.5		38.4		1.5		2.5		0.94	U
Barium	*7440-39-3*	--	*220*	210		13	U	130	U	223		13	U	13	U
Beryllium	*7440-41-7*	--	*3.6*	0.5	U	0.5	U	5	U	0.5	U	3.1		3.1	
Cadmium	*7440-43-9*	*0.339*	*0.1*	*1*	U	*1*	U	*10*	U	*1*	U	*1*	U	*1*	U
Calcium	*7440-70-2*	--	--	31500		22500		990	U	33100		28200		28000	
Chromium	*7440-47-3*	--	*42*	2	U	2	U	171		2	U	2	U	2	U
Cobalt	*7440-48-4*	--	*24*	2.6	U	2.6	U	26	U	2.6	U	83.3		78.9	
Copper	*7440-50-8*	*3.44*	*2.6*	***13.7***		*5.9*	U	***245***		***13.8***		***62.1***		***57.5***	
Iron	*7439-89-6*	--	--	3130		11900		83900		2710		19300		11800	
Lead	*7439-92-1*	*38*	*5.4*	1.8	U	*9*	U	***67***		1.8	U	10.2		4.7	
Magnesium	*7439-95-4*	--	--	15300		7770		1400	U	16200		9470		9070	
Manganese	*7439-96-5*	--	--	297		340		222		316		531		489	
Mercury	*7439-97-6*	*1.4*	*0.77*	0.095	U	0.095	U	0.095	U	0.095	U	0.095	U	0.095	U
Nickel	*7440-02-0*	*122*	*13.7*	13.5		14.8		*17*	U	14.2		**132**		**125**	
Potassium	*7440-09-7*	--	--	200	U	200	U	2000	U	200	U	11600		11000	
Selenium	*7782-49-2*	*20*	*5*	4.9	U	4.9	U	*49*	U	4.9	U	4.9	U	4.9	U
Silver	*7440-22-4*	*0.29*	*0.12*	*1.9*	U	*1.9*	U	*19*	U	*1.9*	U	*1.9*	U	*1.9*	U
Sodium	*7440-23-5*	--	--	287000		12700		5700	U	295000		64300		62600	
Thallium	*7440-28-0*	--	*10*	0.17	U	0.17	U	1.7	U	0.17	U	0.17	U	0.17	U
Vanadium	*7440-62-2*	--	*12*	1.8	U	1.8	U	589		1.8	U	1.8	U	1.8	U
Zinc	*7440-66-6*	*35*	*35.2*	**55.6**		6.9	U	***701***		**57.8**		**226**		**212**	

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 2-3
Summary of Metals in Ground Water
North Brunswick Gulf Station - North Brunswick, NJ

Sample No.:	MW21
Date Sampled:	1/18/2019
LAB Sample ID:	JC81574-3
LAB:	Accutest

Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***		
Aluminum	*7429-90-5*	--	--	4450	
Antimony	*7440-36-0*	--	*80*	4.7	U
Arsenic	*7440-38-2*	*340*	*150*	1.7	
Barium	*7440-39-3*	--	*220*	13	U
Beryllium	*7440-41-7*	--	*3.6*	3	
Cadmium	*7440-43-9*	*0.339*	*0.1*	*1*	U
Calcium	*7440-70-2*	--	--	26200	
Chromium	*7440-47-3*	--	*42*	2	U
Cobalt	*7440-48-4*	--	*24*	73.8	
Copper	*7440-50-8*	*3.44*	*2.6*	***63.3***	
Iron	*7439-89-6*	--	--	9660	
Lead	*7439-92-1*	*38*	*5.4*	6.6	
Magnesium	*7439-95-4*	--	--	8490	
Manganese	*7439-96-5*	--	--	405	
Mercury	*7439-97-6*	*1.4*	*0.77*	0.095	U
Nickel	*7440-02-0*	*122*	*13.7*	115	
Potassium	*7440-09-7*	--	--	200	U
Selenium	*7782-49-2*	*20*	*5*	4.9	U
Silver	*7440-22-4*	*0.29*	*0.12*	*1.9*	U
Sodium	*7440-23-5*	--	--	59900	
Thallium	*7440-28-0*	--	*10*	0.17	U
Vanadium	*7440-62-2*	--	*12*	1.8	U
Zinc	*7440-66-6*	*35*	*35.2*	**201**	

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

TABLE 3

Summary of Surface Water Analytical Results

TABLE 3-1

Summary of Volatile Organic Compounds (VOCs) in Surface Water

Table 3-1
Summary of Volatile Organic Compounds (VOCs) in Surface Water (ECO Fresh)
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	SWAIL		SWALE	
			Date Sampled:	1/15/2014		2/21/2014	
			LAB Sample ID:	JB57955-1		JB60243-1	
			LAB:	Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***				
Acetone	*67-64-1*	--	--	3.3	U	3.3	U
Benzene	*71-43-2*	--	*114*	0.28	U	0.28	U
Bromochloromethane	*74-97-5*	--	--	0.42	U	0.42	U
Bromodichloromethane	*75-27-4*	--	--	0.21	U	0.21	U
Bromoform	*75-25-2*	--	*230*	0.30	U	0.30	U
Bromomethane	*74-83-9*	--	*16*	0.56	U	0.56	U
2-Butanone (MEK)	*78-93-3*	--	--	3.2	U	3.2	U
Carbon Disulfide	*75-15-0*	--	--	0.18	U	0.18	U
Carbon tetrachloride	*56-23-5*	--	*240*	0.23	U	0.23	U
Chlorobenzene	*108-90-7*	--	*47*	0.35	U	0.35	U
Chloroethane	*75-00-3*	--	--	0.39	U	0.39	U
Chloroform	*67-66-3*	--	*140*	1.1		0.25	U
Chloromethane	*74-87-3*	--	--	0.36	U	0.36	U
cis-1,2-Dichloroethene	*156-59-2*	--	--	0.24	U	0.24	U
cis-1,3-Dichloropropene	*10061-01-5*	--	--	0.15	U	0.15	U
Cyclohexane	*110-82-7*	--	--	0.18	U	0.18	U
Dibromochloromethane	*124-48-1*	--	--	0.19	U	0.19	U
1,2-Dichlorobenzene	*95-50-1*	--	*14*	0.20	U	0.20	U
1,3-Dichlorobenzene	*541-73-1*	--	*38*	0.31	U	0.31	U
1,4-Dichlorobenzene	*106-46-7*	--	*9.4*	0.30	U	0.30	U
Dichlorodifluoromethane	*75-71-8*	--	--	0.63	U	0.63	U
1,1-Dichloroethane	*75-34-3*	--	--	0.26	U	0.26	U
1,2-Dichloroethane	*107-06-2*	--	*910*	0.22	U	0.22	U
1,1-Dichloroethene	*75-35-4*	--	*65*	0.34	U	0.34	U
1,2-Dichloropropane	*78-87-5*	--	*360*	0.28	U	0.28	U
1,3-Dichloropropene (total)	*542-75-6*	--	--	ND		ND	
Ethylbenzene	*100-41-4*	--	*14*	0.21	U	0.21	U
2-Hexanone	*591-78-6*	--	--	1.7	U	1.7	U
Isopropylbenzene	*98-82-8*	--	--	0.22	U	0.22	U
Methyl Acetate	*79-20-9*	--	--	1.5	U	1.5	U
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	*151000*	*51000*	0.29	U	0.29	U
4-methyl-2-pentanone (MIBK)	*108-10-1*	--	--	1.5	U	1.5	U
Methylcyclohexane	*108-87-2*	--	--	0.15	U	0.15	U
Methylene chloride	*75-09-2*	--	*940*	0.86	U	0.86	U
Styrene	*100-42-5*	--	*32*	0.30	U	0.30	U

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 3-1
Summary of Volatile Organic Compounds (VOCs) in Surface Water (ECO Fresh)
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	SWAIL		SWALE	
			Date Sampled:	1/15/2014		2/21/2014	
			LAB Sample ID:	JB57955-1		JB60243-1	
			LAB:	Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***				
tert-Butyl Alcohol	*75-65-0*	--	*355000*	NA		1.9	U
1,1,2,2-Tetrachloroethane	*79-34-5*	--	*380*	0.20	U	0.20	U
Tetrachloroethene	*127-18-4*	--	*45*	0.25	U	0.25	U
Toluene	*108-88-3*	--	*253*	0.44	U	0.44	U
trans-1,2-Dichloroethene	*156-60-5*	--	*970*	0.38	U	0.38	U
trans-1,3-Dichloropropene	*10061-02-6*	--	--	0.21	U	0.21	U
Freon 113	*76-13-1*	--	--	0.77	U	0.77	U
1,2,3-Trichlorobenzene	*87-61-6*	--	--	0.24	U	0.24	U
1,1,1-Trichloroethane	*71-55-6*	--	*76*	0.25	U	0.25	U
1,1,2-Trichloroethane	*79-00-5*	--	*500*	0.21	U	0.21	U
Trichloroethene	*79-01-6*	--	*47*	0.50	U	0.50	U
Trichlorofluoromethane	*75-69-4*	--	--	0.33	U	0.33	U
1,2,4-Trichlorobenzene	*120-82-1*	--	*30*	0.22	U	0.22	U
Vinyl Chloride	*75-01-4*	--	*930*	0.41	U	0.41	U
m,p-Xylene	*179601-23-1*	--	--	0.40	U	0.40	U
o-Xylene	*95-47-6*	--	--	0.19	U	0.19	U
Xylenes (total)	*1330-20-7*	--	*27*	0.19	U	0.19	U

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

TABLE 3-2

Summary of Semi-Volatile Organic Compounds (SVOCs) in Surface Water

Table 3-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Surface Water (ECO Fresh)
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	SWAIL		SWALE	
			Date Sampled:	1/15/2014		2/21/2014	
			LAB Sample ID:	JB57955-1		JB60243-1	
			LAB:	Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***				
Acenaphthene	*83-32-9*	--	*38*	0.020	U	0.020	U
Acenaphthylene	*208-96-8*	--	*4840*	0.024	U	0.024	U
Acetophenone	*98-86-2*	--	--	0.29	U	0.29	U
Anthracene	*120-12-7*	--	*0.035*	0.020	U	0.020	U
Atrazine	*1912-24-9*	--	--	0.49	U	0.49	U
Benzaldehyde	*100-52-7*	--	--	3.3	U	3.3	U
Benzo(a)pyrene	*50-32-8*	--	*0.014*	0.012	U	0.012	U
Benzo(a)anthracene	*56-55-3*	--	*0.025*	0.188		0.012	U
Benzo(b)fluoranthene	*205-99-2*	--	*9.07*	0.010	U	0.010	U
Benzo(ghi)perylene	*191-24-2*	--	*7.64*	0.016	U	0.016	U
Benzo(k)fluoranthene	*207-08-9*	--	--	0.015	U	0.015	U
1,1-Biphenyl	*92-52-4*	--	--	0.30	U	0.30	U
Bis(2-Chloroethoxy)methane	*111-91-1*	--	--	0.31	U	0.31	U
bis(2-Chloroethyl)ether	*111-44-4*	--	*1900*	0.31	U	0.31	U
bis(2-Chloroisopropyl)ether	*108-60-1*	--	--	0.45	U	0.45	U
bis(2-Ethylhexyl)phthalate	*117-81-7*	--	*0.3*	1.1	BJ	0.59	U
4-Bromophenyl-phenylether	*101-55-3*	--	--	0.36	U	0.36	U
Butyl benzyl phthalate	*85-68-7*	--	*23*	0.29	U	0.29	U
Caprolactam	*105-60-2*	--	--	0.69	U	0.69	U
Carbazole	*86-74-8*	--	--	0.36	U	0.36	U
2-Chloronaphthalene	*91-58-7*	--	*0.396*	0.30	U	0.30	U
4-Chlorophenyl-phenylether	*7005-72-3*	--	--	0.31	U	0.31	U
Chrysene	*218-01-9*	--	--	0.012	U	0.012	U
Dibenz(a,h)anthracene	*53-70-3*	--	--	0.017	U	0.017	U
Dibenzofuran	*132-64-9*	--	--	0.27	U	0.27	U
3,3'-Dichlorobenzidine	*91-94-1*	--	*4.5*	0.36	U	0.36	U
Diethyl phthalate	*84-66-2*	--	*110*	0.33	U	0.33	U
Dimethyl phthalate	*131-11-3*	--	--	0.28	U	0.28	U
Di-n-butyl phthalate	*84-74-2*	--	*9.7*	0.56	U	0.56	U
Dinitrotoluene (2,4-2,6- mixture)	*25321-14-6*	--	--	ND		ND	
2,4-Dinitrotoluene	*121-14-2*	--	*44*	0.43	U	0.43	U
2,6-Dinitrotoluene	*606-20-2*	--	--	0.46	U	0.46	U
Di-n-octyl phthalate	*117-84-0*	--	--	0.31	U	0.31	U
1,4-Dioxane	*123-91-1*	--	--	0.27	U	0.27	U
Fluoranthene	*206-44-0*	--	*1.9*	0.013	U	0.013	U

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

Table 3-2
Summary of Semi-Volatile Organic Compounds (SVOCs) in Surface Water (ECO Fresh)
North Brunswick Gulf Station - North Brunswick, NJ

			Sample No.:	SWAIL		SWALE	
			Date Sampled:	1/15/2014		2/21/2014	
			LAB Sample ID:	JB57955-1		JB60243-1	
			LAB:	Accutest		Accutest	
Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***				
Fluorene	*86-73-7*	--	*19*	0.017	U	0.017	U
Hexachlorobenzene	*118-74-1*	--	*0.0003*	0.017	U	0.017	U
Hexachlorobutadiene	*87-68-3*	--	*0.053*	0.51	U	0.51	U
Hexachlorocyclopentadiene	*77-47-4*	--	*77*	7.1	U	7.1	U
Hexachloroethane	*67-72-1*	--	*8*	0.55	U	0.55	U
High Molecular Weight PAHs	*SRP420*	--	--	0.188		ND	
Indeno(1,2,3-cd)pyrene	*193-39-5*	--	*4.31*	0.014	U	0.014	U
Isophorone	*78-59-1*	--	*920*	0.27	U	0.27	U
Low Molecular Weight PAHs	*SRP419*	--	--	ND		ND	
2-Methylnaphthalene	*91-57-6*	--	*330*	0.38	U	0.38	U
Naphthalene	*91-20-3*	--	*13*	0.036	U	0.036	U
2-Nitroaniline	*88-74-4*	--	--	1.1	U	1.1	U
3-Nitroaniline	*99-09-2*	--	--	1.3	U	1.3	U
4-Nitroaniline	*100-01-6*	--	--	1.7	U	1.7	U
Nitrobenzene	*98-95-3*	--	*220*	0.42	U	0.42	U
n-Nitrosodi-n-propylamine	*621-64-7*	--	--	0.30	U	0.30	U
n-Nitrosodiphenylamine	*86-30-6*	--	--	0.31	U	0.31	U
p-Chloroaniline	*106-47-8*	--	--	0.53	U	0.53	U
Phenanthrene	*85-01-8*	--	*3.6*	0.021	U	0.021	U
Pyrene	*129-00-0*	--	*0.3*	0.015	U	0.015	U
1,2,4,5-Tetrachlorobenzene	*95-94-3*	--	*3*	0.31	U	0.31	U
Total PAHs	*130498-29-2*	--	--	0.188		ND	
Total SVOC TIC	*SRP171*	--	--	ND		ND	
Total VOC and SVOC TICs	*SRP351*	--	--	ND		ND	

ESCSWFA = NJ ESC SW FW2 Acute 2009
ESCSWFC = NJ ESC SW FW2 Chronic 2009
Bold indicates concentrations above the ESCSWFA
Bold and underline indicates concentrations above the ESCSWFC
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

TABLE 3-3

Summary of Metals in Surface Water

Table 3-3
Summary of Metals in Surface Water (ECO Fresh)
North Brunswick Gulf Station - North Brunswick, NJ

Sample No.:	Seep
Date Sampled:	5/11/2017
LAB Sample ID:	JC43105-1
LAB:	Accutest

Parameter (ug/l)	***CAS No.***	***ESC Acute***	***ESC Chronic***		
Lead	*7439-92-1*	*38*	*5.4*	3.2	

ESC = NJDEP Ecological Screening Criteria, March 2009
ESC Acute = Fresh Surface Water Acute (per NJDEP ESC)
ESC Chronic = Fresh Surface Water Chronic (per NJDEP ESC)
Bold indicates concentrations above the ESC Acute
Bold and underline indicates concentrations above the ESC Chronic
ND = Not Detected
NA = Not Analyzed
J = Estimated value below sample reporting limit
MDL = Method Detection Limit
U = Compound not detected above MDL
Values in italics indicate MDL above applicable criterion.

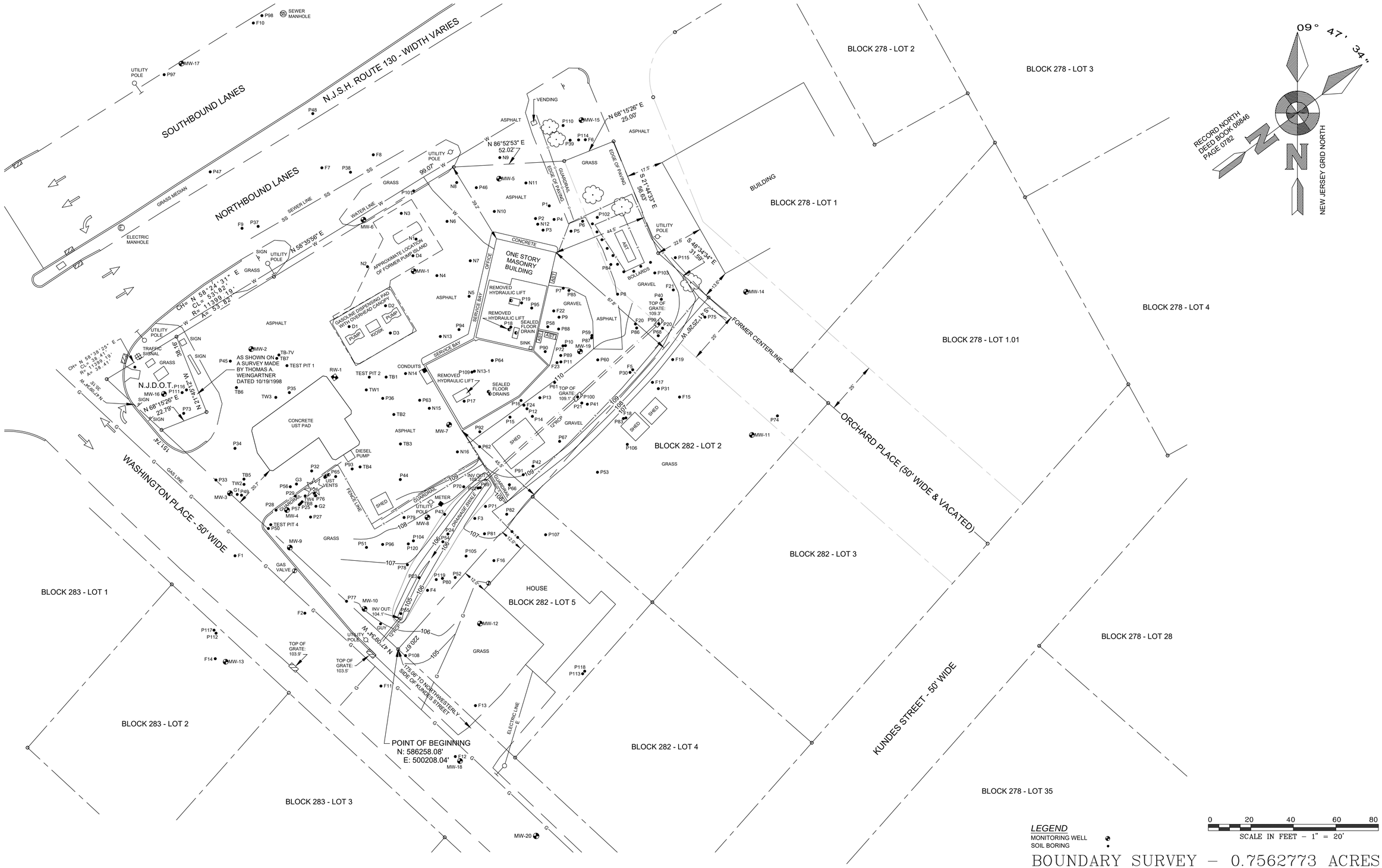
APPENDICES

APPENDIX A:

Site Survey

Prepared by James M. Stewart, PLS of Dennis Sklar, Inc.

Dated October 26, 2018



0 20 40 60 80

SCALE IN FEET – 1" = 20'

LEGEND

MONITORING WELL

SOIL BORING

BOUNDARY SURVEY – 0.7562773 ACRES

1696 ROUTE 130, LLC

DEED BOOK 06846 – PAGE 0782

TAX BLOCK 282 – LOT 1

NORTH BRUNSWICK TOWNSHIP – MIDDLESEX COUNTY – NEW JERSEY

DATUM

NEW JERSEY STATE PLANE COORDINATES NAD 83_2011

NAVD 88

APPENDIX B:

Ecological Evaluation Site Inspection Photo Log

SITE PHOTOGRAPHS

North Brunswick Gulf Service Station – Ecological Evaluation
1696 Georges Road, North Brunswick Township, New Jersey
Photographs taken by TRC, February 13, 2019



Photograph 1 *– View looking south at southwest corner of the Site toward Washington Place.*



Photograph 2 *– View looking northwest at one of the two stormwater drainage outfalls that discharge into Farrington Lake. The drainage outfall is located approximately 1,500 feet south of the Site boundary.*



Photograph 3 *– View looking west at second stormwater drainage outfall into Farrington Lake. Note that a high velocity of stormwater was observed discharging from the outfall during the time of the inspection.*



Photograph 4 *- View looking south towards Farrington Lake downstream from stormwater drainage outfall pictured in Figure 2.*



Photograph 5 *- View looking northwest along Washington Place toward the Site and near the stormwater drainage outfall pictured in* ***Figure 3****.*



Photograph 6 - *View looking northwest at the onsite drainage ditch. Note the rip-rap lining and a layer of leaves, twigs, and garbage. The ditch had no surface water present at the time of this photograph.*



Photograph 7 - *View looking northeast at the upland area near the ditch (right).*



Photograph 8 *- View looking northwest across the onsite ditch.*



Photograph 9 *– View looking east at Site from Washington Place. This photo depicts the main use and typical operations at the Site.*

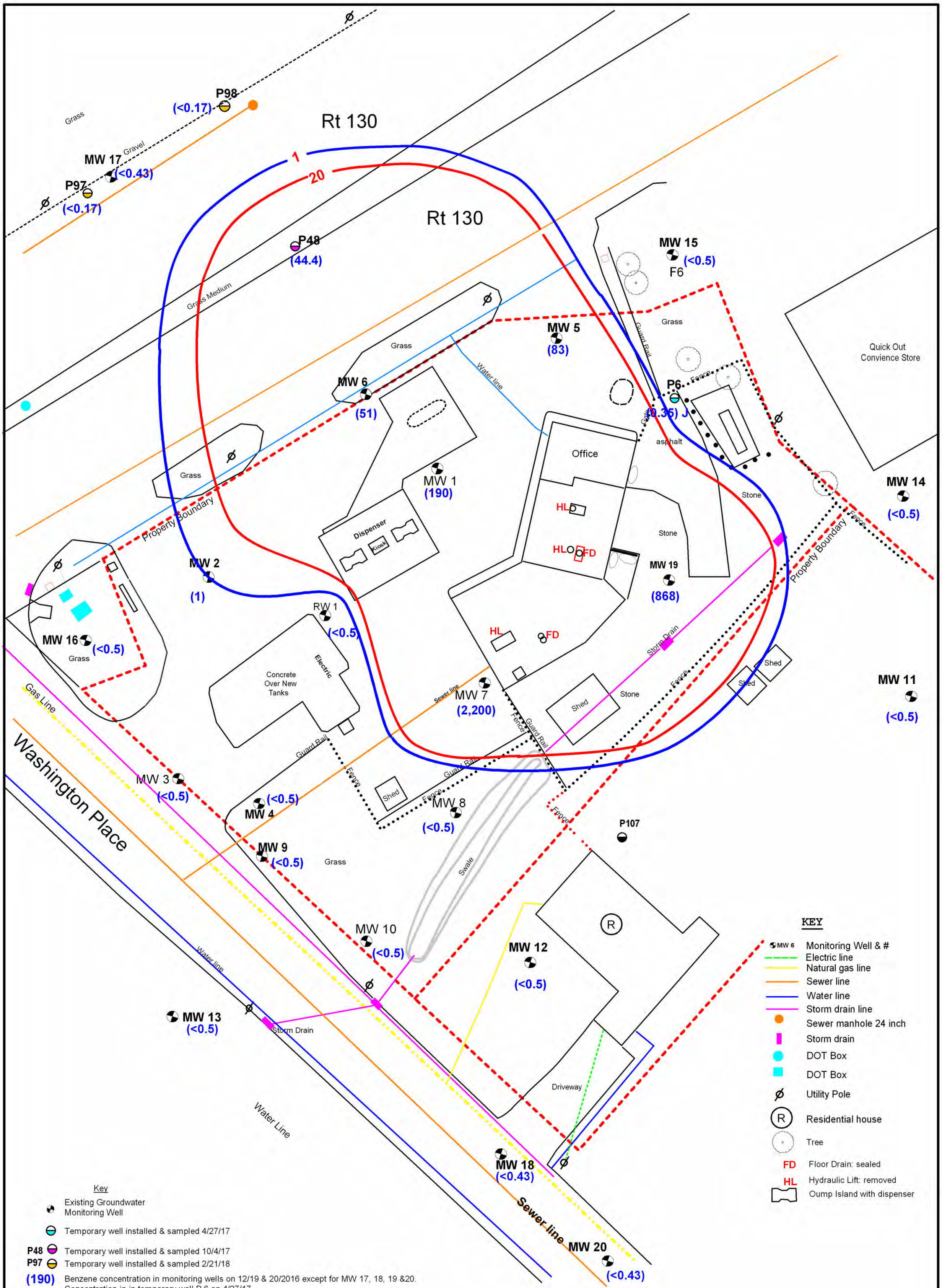


Photograph 10 *– View looking west behind auto body shop. Two above-ground storage tanks are shown along the wall.*

APPENDIX C:

Groundwater Contaminant Iso-Concentration and Flow Contour Maps

Prepared by On-Site Environmental, Inc.


Rt 130
Rt 130
P98
(<0.17)
Grass
MW 17
(<0.43)
Gravel
P97
(<0.17)
1
20
P48
(44.4)
Grass Medium
MW 15
(<0.5)
F6
MW 5
(83)
Grass
Guard Rail
Quick Out
Convience Store
Water line
MW 6
(51)
Fence
P6
(0.35) J
Gate
asphalt
Office
MW 1
(190)
Grass
HL
FD
Stone
MW 14
(<0.5)
Dispenser
Kiosk
Property Boundary
MW 2
(1)
MW 19
(868)
RW 1
(<0.5)
HL
FD
Storm Drain
MW 16
(<0.5)
Grass
Concrete
Over New
Tanks
Electric
Shed
Shed
Stone
Fence
Gas Line
Sewer line
MW 7
(2,200)
Guard Rail
Fence
Guard Rail
MW 11
(<0.5)
Shed
Guard Rail
Fence
MW 3
(<0.5)
MW 4
(<0.5)
Fence
MW 8
(<0.5)
P107
MW 9
(<0.5)
Grass
Swale
MW 10
(<0.5)
MW 12
(<0.5)
R
Water line
MW 13
(<0.5)
Storm Drain
Driveway
Water Line
MW 18
(<0.43)
Sewer line
MW 20
(<0.43)
KEY
MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser
Key
Existing Groundwater Monitoring Well
Temporary well installed & sampled 4/27/17
P48 Temporary well installed & sampled 10/4/17
P97 Temporary well installed & sampled 2/21/18
(190) Benzene concentration in monitoring wells on 12/19 & 20/2016 except for MW 17, 18, 19 &20.
Concentration in in temporary well P 6 on 4/27/17.
Concentration in P 48 on 10/4/17 & in P 97 & P98 on 2/21/18.
Concentration in MW 17, MW 18 & MW 19 on 10/3/18 (ppb).
Concentration in MW 20 on 1/18/19.
1 1 ppb contour line (dashed were approximated)
20 20 ppb contour line (dashed were approximated)
N
0'
30'
Approximate scale in feet
Note: Groundwater Class IIA standards is 1 ppb
Groundwater screening level for vapor intrusion is 20 pppb.
Fresh water chronic criteria is 114 ppb.
Fresh water human health criteria is 0.15 ppb.
ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709
Drawing #: Ben up to 1-18-19
Date 12/6/18
Figure 1 Benzene in Groundwater 12/19 - 21/16 4/27/17 & 10/4/17 & 2/21/18 & 10/3/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(<0.53)

Grass Medium

MW 15
(<0.5)

MW 5
(25)

Guard Rail

Grass

Quick Out
Convience Store

Water line

MW 6
(32)

P6
(<0.23)

Fence

asphalt

Office

(580)
MW 1

600

Grass

TB7-1

Property Boundary

Dispenser

Kiosk

HL

FD

Stone

MW 14
(<0.5)

MW 2
(4)

MW 19
(1,960)

RW 1
(<0.5)

MW 16 (<0.5)

Grass

Concrete
Over New
Tanks

Electric

Storm Drain

Shed

Gas Line

Sewer line

MW 7
(810)

MW 11
(<0.5)

Guard Rail

Fence

Washington Place

MW 3
(<0.4)

MW 4
(<0.5)

Shed

MW 8
(<0.5)

P107

MW 9
(<0.5)

Grass

Swale

Sewer line

MW 10
(<0.5)

R

MW 12
(<0.5)

Water line

MW 13
(<0.5)

Storm Drain

Driveway

MW 18
(<0.53)

MW 20
(<0.53)

Key

Existing Groundwater Monitoring Well

Temporary well installed 4/27/18

(810) Toluene concentration in monitoring wells on 12/19 -21/2016 except for MW 17, MW 18, MW 19 & MW 20.
Concentration in temporary well P 6 on 4/27/18.
Concentration in MW 17, MW 18 & MW 19 on 10/3/18.
Concentration in MW 20 on 1/18/19.

600 600 ppb contour line

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser

N

0' 30'

Approximate scale in feet

Note: Groundwater Class IIA standard is 600 ppb
Groundwater screening level for vapor intrusion is 330,000 ppb.
Fresh water chronic criteria is 253 ppb.
Fresh water human health criteria is 1,300 ppb.

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: Toluene up to 1/18/19

Date 2/19/19

Figure 2 Toluene in Groundwater 12/19 - 21/16 4/27/17 & 10/3/18 & 1/18/19

North Bruswick Gulf
1696 Georges Road Rt 130
North Brunswick,New Jersey

Rt 130

Rt 130

Grass

Gravel

MW 17
(<0.60)

Grass Medium

MW 15
(<0.5)

MW 5
(73)

Grass

Guard Rail

Quick Out
Convience Store

Water line

MW 6
(58)

P6
(0.37 J)

Fence

asphalt

Office

Grass

TB7-1

MW 1
(260)

700

HL

Stone

MW 14
(<0.5)

Dispenser

Kiosk

HL

FD

Stone

Property Boundary

Fence

MW 2
(48)

MW 19
(1,790)

RW 1
(<0.5)

HL

FD

MW 16
(<0.5)

Grass

Storm Drain

Concrete
Over New
Tanks

Electric

Sewer line

MW 7
(1,900)

Fence

Guard Rail

Shed

Stone

Shed

Shed

MW 11
(<0.5)

Gas Line

Washington Place

MW 3
(<0.5)

Guard Rail

Fence

Guard Rail

Fence

Shed

Fence

MW 4
(<0.5)

MW 8
(<0.5)

Fence

P107

MW 9
(<0.5)

Grass

Swale

Sewer line

MW 10
(<0.5)

MW 12
(<0.5)

R

Water line

MW 13
(<0.5)

Storm Drain

Driveway

MW 18
(<0.60)

MW 20
(<0.60)

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Oump Island with dispenser

Key

Existing Groundwater Monitoring Well

(58) Ethylbenzene concentration in monitoring wells on 12/19-21/2016 except MW 17, MW 18, MW 19 & MW 20.
Concentration in P 6 on 4/27/17
Concentration in MW 17, MW 18 & MW 19 on 10/3/18 (ppb)
Concentration in MW 20 on 1/18/19

—700— 700 ppb contour line

Note:
Groundwater Class IIA standard and groundwater screeening level for vapor intrusion is 700 ppb.
Fresh water chronic criteria is 14 ppb.
Fresh water humanh health criteria is 530 ppb.

N

0' 30'
Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: EB up to 1-18-19
Date: 2/19/19

Figure 3 Ethyl Benzene in Groundwater 12/19 - 21/16 &4/27/17 & 10/3/18 & 1/18/19

North Bruswick Gulf
1696 Georges Road Rt 130
North Brunswick,New Jersey

Rt 130

Rt 130

Grass

Gravel

MW 17
(<0.59)

Grass Medium

MW 15
(<0.5)

MW 5
(47)

Guard Rail

Grass

Quick Out
Convience Store

Water line

Fence

MW 6
(66)

Gate

asphalt

Office

Grass

MW 1
(980)

Stone

MW 14
(<0.5)

HL

Property Boundary

Dispenser

Kiosk

Stone

HL

FD

8,600

MW 19
(8,790)

Property Boundary

Fence

MW 2
(182)

RW 1
(<0.5)

MW 16 (<0.5)

Grass

1,000

HL

FD

Storm Drain

Concrete
Over New
Tanks

Electric

Sewer line

MW 7
(5,200)

Shed

Stone

Fence

Shed

Shed

MW 11
(<0.5)

Gas Line

Guard Rail

Fence

Guard Rail

Guard Rail

Washington Place

MW 3
(<0.5)

(<0.5)

MW 4

Shed

Fence

MW 8
(1.6 J)

Fence

P107

MW 9
(<0.5)

Grass

Swale

Sewer line

MW 10
(<0.5)

R

MW 12
(<0.5)

Water line

MW 13
(<0.5)

Storm Drain

Driveway

MW 18
(<0.59)

MW 20
(<0.59)

Key

Existing Groundwater
Monitoring Well

(5,200) Xylene concentration in monitoring wells on 12/19-21/2016 except for MW 17, MW 18, MW 19 & MW 20
Concentration in MW 17, MW 18 & MW 19 on 10/3/18 (ppb).
Concentration in MW 20 on 1/18/19.

1,000 1,000 ppb contour line (dashed were approximated)

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser

Note: Groundwater Class IIA standard is 1,000 ppb
Groundwater screening level for vapor intrusion is 8,600 ppb.
Fresh water chronic criteria is 27 ppb.

N

0' 30'

Approximate scale in feet

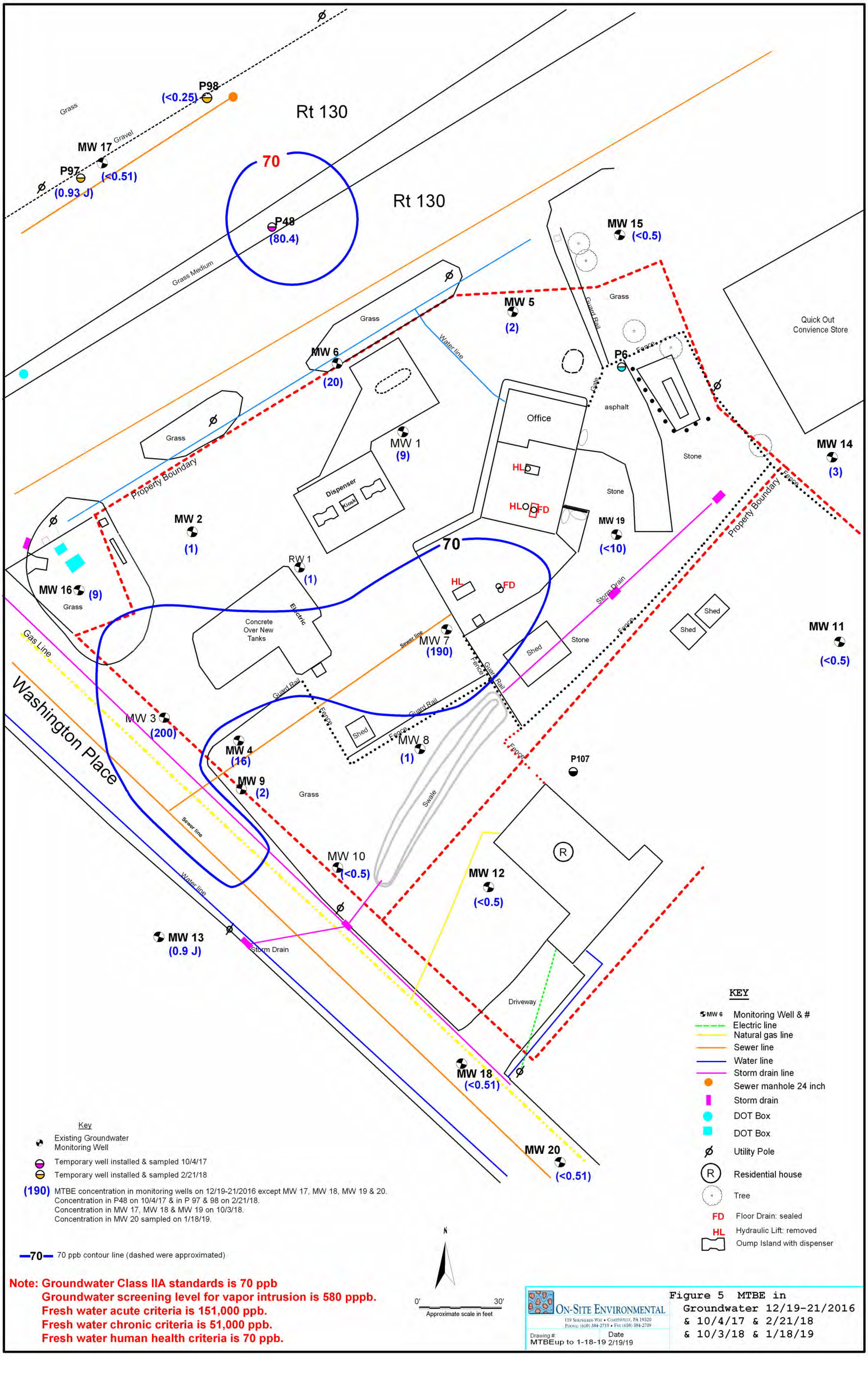
ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: xylenes up to 1-18-19

Date 2/19/19

Figure 4 Xylenes in Groundwater 12/19 - 21/16 & 10/3/18 & 1/18/19

North Bruswick Gulf
1696 Georges Road Rt 130
North Brunswick,New Jersey



Note: Groundwater Class IIA standards is 70 ppb
Groundwater screening level for vapor intrusion is 580 pppb.
Fresh water acute criteria is 151,000 ppb.
Fresh water chronic criteria is 51,000 ppb.
Fresh water human health criteria is 70 ppb.

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatsville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: MTBEup to 1-18-19
Date 2/19/19

Figure 5 MTBE in Groundwater 12/19-21/2016 & 10/4/17 & 2/21/18 & 10/3/18 & 1/18/19

P98 (<7.0)
Grass
Gravel
MW 17
P97 (<7.0)
(<5.8)
Rt 130
100
Rt 130
P48 (136)
Grass Medium
MW 15 (<5)
Grass
Guard Rail
MW 5 (7 J)
Quick Out Convience Store
Water line
MW 6 (70)
P6 (<3)
Fence
Gate
asphalt
Office
Grass
MW 1 (63)
Stone
HL
100
Dispenser
Kiosk
Property Boundary
Fence
MW 14 (13 J)
HL
FD
Stone
MW 2 (9 J)
MW 19 (123 J)
RW 1 (10 J)
HL
FD
Storm Drain
MW 16 (<5)
Grass
Concrete Over New Tanks
Electric
Shed
Shed
Stone
Gas Line
Sewer line
MW 7 (430)
Guard Rail
Fence
Guard Rail
Fence
Shed
Fence
Guard Rail
Fence
MW 11 (<5)
MW 3 (2,100)
(47) MW 4
MW 8 (<5)
Fence
P107
MW 9 (<5)
Grass
Swale
Washington Place
Sewer line
MW 10 (<5)
R
MW 12 (<5)
Water line
MW 13 (<5)
Storm Drain
Driveway
MW 18 (6.3 J)
MW 20 (<5.8)

Key

Existing Groundwater Monitoring Well

Temporary well installed & sampled 10/4/17

Temporary well installed & sampled 2/21/18

(430) TBA concentration in monitoring wells on 12/19-21/2016 except MW 17, MW 18, MW 19 & MW 20.
Concentration in temporary well P 6 on 4/27/18
Concentration in temporary well P 48 on 10/4/17
Concentration in temporary well P97 & P98 on 2/21/18
Concentration in MW 17, MW 18 & MW 19 on 10/3/18
Concentration in MW 20 on 1/18/19

100 100 ppb contour line (dashed were approximated)

N

0' 30'
Approximate scale in feet

Note: Groundwater Class IIA standards is 100 ppb
Fresh water chronic criteria is 355,000 ppb

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: TBA up to 1/18/19
Date 2/19/19

Figure 6 TBA in Groundwater 12/19-21/2016 4/27/17 & 10/4/17 & 2/21/18 & 10/3/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(<1)

Grass Medium

MW 15
(<1)

MW 5
(660)

Guard Rail

Grass

Quick Out
Convience Store

Fence

100

Water line

MW 6
(13)

Gate

asphalt

Office

Grass

TB7-1

MW 1
(240)

Stone

HL

Property Boundary

Dispenser

Kiosk

Stone

HL

FD

MW 14
(<1)

Fence

MW 2
(230)

MW 19
(2,060)

Property Boundary

RW 1
(<1)

HL

FD

MW 16
(<0.5)

Grass

Storm Drain

Shed

Shed

Concrete
Over New
Tanks

Electric

Sewer line

MW 7
(1,800)

Shed

Stone

Fence

MW 11
(<1)

Gas Line

Guard Rail

Fence

Guard Rail

Washington Place

MW 3
(<1)

Guard Rail

Fence

Shed

Fence

MW 4
(<1)

MW 8
(<1)

P107

MW 9
(<1)

Grass

Swale

Fence

Sewer line

MW 10
(<1)

R

MW 12
(<1)

Water line

MW 13
(<1)

Storm Drain

(1.1 J)

MW 18

Driveway

MW 20
(<1)

Getty Station

Key

Existing Groundwater Monitoring Well

(170) 1,2,4-Trimethylbenzene concentration in monitoring wells on 12/19-21/2016 except MW 17, MW 18, MW 19 & 20
MW 17, MW 18 & MW 19 sampled on 10/3/18 (ppb)
MW 20 sampled on 1/18/19

—100— 100 ppb contour line (dashed were approximated)

Note: Groundwater interum standard is 100 ppb

KEY

- MW 6 Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R Residential house
- Tree
- FD Floor Drain: sealed
- HL Hydraulic Lift: removed
- Oump Island with dispenser

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing # 124 TMB up to 1-18-19

Date 2/19/19

Figure 7 1,2,4-TMB in Groundwater 12/19 - 21/16 & 10/3/18 & 1/18/19

North Bruswick Gulf
1696 Georges Road Rt 130
North Brunswick,New Jersey

Rt 130

Rt 130

Grass

Gravel

MW 17

(<0.0053)

Grass Medium

MW 15

(<0.0095)

MW 5

(<0.0095)

Grass

Guard Rail

Fence

Quick Out
Convience Store

Water line

MW 6

(<0.0095)

Grass

TB7-1

MW 1

(<0.0094)

Property Boundary

Dispenser

Kiosk

Office

asphalt

Stone

HL

FD

MW 14

(<0.0094)

Fence

Property Boundary

MW 2

(<0.048)

MW 19

(<0.0053)

RW 1

(<0.0095)

0.03

0.4

HL

FD

MW 16

(<0.5)

Grass

Concrete
Over New
Tanks

Electric

MW 7

(0.52)

Sewer line

Storm Drain

Fence

Shed

Shed

Shed

Stone

MW 11

(<0.0095)

Gas Line

Washington Place

Guard Rail

Fence

Guard Rail

Guard Rail

MW 3

(<0.0094)

MW 4

(<0.0096)

Shed

Fence

MW 8

(<0.0095)

Fence

P107

MW 9

(<0.0095)

Grass

Swale

Sewer line

MW 10

(<0.0095)

R

MW 12

(<0.0095)

Water line

MW 13

(<0.0095)

Storm Drain

Driveway

(<0.0053)

MW 18

MW 20

(<0.0052)

Getty Station

Key

Existing Groundwater
Monitoring Well

(0.52) Ethyldibromide concentration in monitoring wells on 12/19-21/2016 except MW 17, MW 18, MW 19 & MW 20
Concentration in MW 17, MW 18 & MW 19 on 10/3/18 (ppb).
Concentration in MW 20 on 1/18/19.

0.03 0.03 ppb contour line (dashed were approximated)

(0.048) Detection level above groundwater standard.

0.4 0.4 ppb vapor intrusion contour line (dashed were approximated)

Note: Groundwater Class IIA standards is 0.03 ppb
Groundwater screening level for vapor intrrusion is 0.4 ppb

N

0' 30'

Approximate scale in feet

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: EDB up to 1-18-19

Date 2/19/19

Figure 8 Ethyldibromide in Groundwater 12/19 - 21/16 & 10/3/18 & 1/18/19
North Bruswick Gulf
1696 Georges Road Rt 130
North Brunswick,New Jersey

Grass

MW 17 Gravel

(<0.022)

Rt 130

Rt 130

Grass Medium

MW 15

(<0.010)

MW 5

(0.025 J)

Grass

Guard Rail

Quick Out
Convience Store

Fence

Water line

Gate

asphalt

Office

Stone

MW 6

(<0.010)

0.1

MW 1

(0.15)

Grass

Property Boundary

Dispenser

Kiosk

HL

FD

MW 14

(<0.010)

Fence

MW 2

(0.011 J)

MW 19

(<0.022)

Stone

RW 1

(<0.010)

HL

FD

Property Boundary

MW 16

(<0.010)

Grass

Concrete
Over New
Tanks

Electric

Storm Drain

Shed

Shed

MW 11

(na)

Gas Line

Sewer line

MW 7

(0.012 J)

Guard Rail

Fence

Shed

Stone

Fence

Washington Place

MW 3

(<0.010)

MW 4

(<0.010)

Guard Rail

Fence

Shed

Fence

MW 8

(<0.010)

Fence

P107

MW 9

(<0.010)

Grass

Swale

MW 10

(<0.010)

R

MW 12

(<0.010)

Water line

MW 13

(<0.010)

Storm Drain

Sewer line

Driveway

0.1

MW 18

(0.208 a 10/3/18)

(0.135 11/15/18)

MW 20

(<0.022)

KEY

- MW 6 Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R Residential house
- Tree
- FD Floor Drain: sealed
- HL Hydraulic Lift: removed
- Oump Island with dispenser

Key

Existing Groundwater Monitoring Well

(<0.01) Benzo(a)anthracene concentration in monitoring wells on 12/19-21/2019 except MW 17, MW 18, MW 19 & MW20
Concentration in MW 17, MW 18 and MW 19 sampled on 10/3/18.
Concentration in MW 18 sampled on 11/15/18
Concentration in MW 20 sampled on 1/18/19

(0.15) Concentration above standard

— 0.1 — 0.1 ppb contour line (dashed were approximated)

a Sample extracted out of hold time

Note: Groundwater Class IIA standard is 0.1 ppb
Fresh water chronicn criteria is 0.025 ppb
Fresh water human health criteria is 0.038 ppb

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: B(a)A up to 1/18/19

Date 2/19/19

Figure 9 Benzo(a)anthracene in Groundwater 12/19-21/2016 & 10/3/18 & 11/15/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(<0.032)

Grass Medium

MW 15
(<0.010)

MW 5
(<0.010)

Guard Rail

Grass

Fence

Quick Out
Convience Store

Water line

MW 6
(<0.010)

0.1

MW 1
(0.18)

Grass

Property Boundary

Office

asphalt

Stone

MW 14
(<0.010)

Dispenser

Kiosk

HL

FD

Stone

Fence

MW 2
(<0.010)

MW 19
(<0.032)

RW 1
(<0.010)

MW 16
(<0.010)

Grass

Concrete
Over New
Tanks

Electric

Storm Drain

Property Boundary

Gas Line

MW 7
(0.011 J)

Sewer line

Shed

Shed

Shed

Stone

Fence

MW 11
(na)

Guard Rail

Guard Rail

Fence

Guard Rail

Fence

Shed

Fence

MW 3
(<0.010)

MW 4
(<0.010)

MW 8
(<0.010)

P107

MW 9
(<0.010)

Grass

Swale

Washington Place

MW 10
(<0.010)

R

MW 12
(<0.010)

Water line

MW 13
(<0.010)

Storm Drain

Sewer line

Driveway

MW 18
(<0.032 a 10/3/18)
(<0.032 11/15/18)

MW 20
(<0.032)

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Oump Island with dispenser

Key

- Existing Groundwater Monitoring Well
- (<0.032) Benzo(a)pryene concentration in monitoring wells on 12/19-21/2019 except MW 17, MW 18, MW 19 & MW20
  Concentration in MW 17, MW 18 and MW 19 sampled on 10/3/18.
  Concentration in MW 18 sampled on 11/15/18
  Concentration in MW 20 sampled on 1/18/19
- (0.18) Concentration above standard
- — 0.1 — 0.1 ppb contour line (dashed were approximated)
- a — Sample extracted out of hold time

Note: Groundwater Class IIA standard is 0.1 ppb
Fresh water chronic criteria is 0.014 ppb
Fresh water human health criteria is 0.0038 ppb

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: B(a)Pyrene up to 1/18/19

Date 2/19/19

Figure 10 Benzo(a)pryene in Groundwater 12/19-21/2016 & 10/3/18 & 11/15/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(<0.022)

Grass Medium

MW 15
(<0.010)

MW 5
(0.012 J)

Guard Rail

Grass

Fence

Quick Out
Convience Store

Water line

MW 6
(<0.010)

0.2

MW 1
(0.41)

Grass

Property Boundary

Office

asphalt

Stone

MW 14
(<0.010)

Dispenser

Kiosk

HL

FD

Stone

Fence

MW 2
(0.013J)

MW 19
(<0.022)

Property Boundary

RW 1
(<0.010)

MW 16
(<0.010)

Grass

Concrete
Over New
Tanks

Electric

HL

FD

Storm Drain

Gas Line

Sewer line

MW 7
(0.023 J)

Shed

Stone

Shed

Shed

MW 11
(na)

Fence

Guard Rail

Guard Rail

Fence

Washington Place

MW 3
(<0.010)

(<0.010)

MW 4

Shed

Guard Rail

Fence

MW 8
(<0.010)

Fence

P107

MW 9
(<0.010)

Grass

Swale

MW 10
(<0.010)

R

MW 12
(<0.010)

Water line

MW 13
(<0.010)

Storm Drain

Sewer line

Driveway

MW 18
(<0.041 a 10/3/18)
(<0.041 11/15/18)

MW 20
(<0.022)

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Oump Island with dispenser

Key

Existing Groundwater Monitoring Well

(<0.01) Benzo(b)fluoranthene concentration in monitoring wells on 12/19-21/2019 except MW 17, MW 18, MW 19 & MW20
Concentration in MW 17, MW 18 and MW 19 sampled on 10/3/18.
Concentration in MW 18 sampled on 11/15/18
Concentration in MW 20 sampled on 1/18/19

(0.15) Concentration above standard

— 0.2 — 0.2 ppb contour line (dashed were approximated)

a Sample extracted out of hold time

Note: Groundwater Class IIA standard is 0.2 ppb
Fresh water chronic criteria is 9.07 ppb
Fresh water human health criteria is 0.038 ppb

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: B(a)A up to 1/18/19
Date: 2/19/19

Figure 11 Benzo(b)fluoranthene in Groundwater 12/19-21/2016 & 10/3/18 & 11/15/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(na)

Grass Medium

5

MW 15
(<0.1)

MW 5
(100)

Grass

Guard Rail

Fence

Quick Out
Convience Store

Water line

MW 6
(9)

Grass

TB7-1

MW 1
(21)

Property Boundary

Dispenser

Kiosk

Office

asphalt

Fence

Stone

MW 14
(<0.1)

HL

FD

Stone

MW 2
(8)

MW 19
(7.5 J)

Property Boundary

Fence

RW 1
(1)

MW 16
(<0.1)

Grass

Concrete
Over New
Tanks

Electric

Storm Drain

Shed

Shed

Shed

Stone

Gas Line

Sewer line

MW 7
(58)

Guard Rail

Fence

MW 11
(n.a.)

Washington Place

MW 3
(<0.1)

MW 4
(<0.1)

Fence

Shed

Fence

MW 8
(<0.1)

Guard Rail

Fence

MW 9
(<0.1)

Grass

Swale

MW 10
(<0.1)

R

MW 12
(<0.1)

Water line

MW 13
(<0.1)

Storm Drain

Driveway

(4.6 a J on 10/3/18)

MW 18
(4 on 11/15/18)

Sewer line

MW 20

Getty Station

Key

Existing Groundwater Monitoring Well

(100) 1-methylnaphthalene concentration in monitoring wells on 12/19-21/2016 except MW 17, MW 18, MW 19 & MW 20
Concentration in MW 17, MW 18 & MW 19 on 10/3/18(ppb)
Concentration in MW 18 on 11/15/18

— 5 — 5 ppb contour line (dashed were approximated)

a: sample extracted out of hold time

Note: Groundwater interim standards is 5 ppb

N

0' 30'

Approximate scale in feet

KEY

- MW 6 Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R Residential house
- Tree
- FD Floor Drain: sealed
- HL Hydraulic Lift: removed
- Oump Island with dispenser
- Tree

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing # 1Mnap up to 10/3/18

Date 2/19/19

Figure 12 1-Methylnaphthalene in Groundwater 12/19-21/2016 & 10/3/18 & 11/15/18

North Bruswick Gulf
1696 Georges Road Rt 130
North Brunswick,New Jersey

Rt 130

Rt 130

Grass

Gravel

MW 17
(<0.85)

Grass Medium

MW 15
(<0.1)

30

MW 5
(120)

Guard Rail

Grass

Quick Out
Convience Store

Fence

Water line

MW 6
(4)

Grass

TB7-1

MW 1
(18)

Property Boundary

Dispenser

Kiosk

Office

asphalt

Stone

MW 14
(<0.1)

HL

FD

MW 2
(9)

MW 19
(133)

RW 1
(1)

MW 16
(<0.1)

Grass

Concrete
Over New
Tanks

Electric

Storm Drain

Shed

Gas Line

Sewer line

MW 7
(97)

Guard Rail

Fence

MW 3
(<0.1)

MW 4
(<0.1)

MW 8
(<0.1)

MW 9
(<0.1)

Grass

Swale

Washington Place

Getty Station

MW 10
(<0.01)

MW 12
(<0.1)

R

MW 13
(<0.1)

Storm Drain

Driveway

(7.1 a on 10/3/18)

MW 18
(6.5 on 11/15/18)

MW 11
(n.a.)

MW 20
(<0.20)

KEY

- MW 6 Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R Residential house
- Tree
- FD Floor Drain: sealed
- HL Hydraulic Lift: removed
- Oump Island with dispenser

Key

Existing Groundwater Monitoring Well

(120) 2-methylnaphthalene concentration in monitoring wells on 12/19-21/2016 except MW 17, MW 18, MW 19 &20
Concentration in MW 17, MW 18 & MW 19 sampled on 10/3/18 (ppb)
Concentration in MW 18 on 11/15/18
Conccentration in MW 20 sampled on 1/18/19

—30— 30 ppb contour line (dashed were approximated)

a: sample extracted out of hold time.

Note: Groundwater Class IIA standards is 30 ppb
Fresh water chronic criteria is 330 ppb.

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: 2Mnap up to 1/18/19

Date: 2/19/19

Figure 13 2-Methylnaphthalene in Groundwater 12/19-21/2016 & 10/3/18 & 11/15/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(<0.98)

Grass Medium

MW 15
(0.045 J)

MW 5
(39)

Grass

Guard Rail

Quick Out
Convience Store

Water line

MW 6
(11)

P6
(<1)

Fence

asphalt

Office

Grass

TB7-1

MW 1
(47)

Stone

HL

Dispenser

Kiosk

Property Boundary

Stone

HL

FD

MW 14
(0.033 J)

Fence

MW 2
(11)

300

MW 19
(448)

RW 1
(0.082)

HL

FD

MW 16
(0.053 J)

Grass

Storm Drain

Shed

Shed

Concrete
Over New
Tanks

Electric

Sewer line

MW 7
(420)

Stone

Shed

Fence

MW 11
(n.a.)

Gas Line

Guard Rail

Fence

Guard Rail

Washington Place

MW 3
(<0.03)

MW 4
(0.039 J)

Shed

Fence

MW 8
(<0.03)

Fence

P107

MW 9
(0.049 J)

Grass

Swale

MW 10
(<0.03)

R

MW 12
(<0.03)

Water line

Getty Station

MW 13
(0.037 J)

Storm Drain

Sewer line

Driveway

(45.1 a on 10/3/18)

MW 18
(25.6 on 11/15/18)

MW 20
(0.25 J)

Key

Existing Groundwater
Monitoring Well

(420) Naphthalene concentration in monitoring wells except MW 17, MW 18, Mw 19 & MW 20 sampled on 12/19-21/2016.
Concentration in P 6 on 4/27/18.
Concentration in MW 17, MW 18 & MW 19 on 10/3/18 (ppb).
Concentration in MMW 18 on 10/3/18 (a: extracted out of hold time)
Concentration in MW 18 on 11/15/18.
Concentration in MW 20 on 1/18/19.

300 300 ppb contour line (dashed were approximated)

a Sample extracted out of hold time

Note: Groundwater Class IIA standards is 300 ppb
Groundwater screening level for vapor intrusion is 300pppb.
Fresh water chronic criteria is 13 ppb.

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser

N

0' 30'
Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: Nap up to 1-18-19
Date 2/19/19

Figure 14 Naphthalene in Groundwater 12/19-21/2016 & 4/27/18 & 10/3/18 & 11/15/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(<1)

Grass Medium

MW 15
(4.5)

MW 5
(0.59)

Guard Rail

Grass

Quick Out
Convience Store

Water line

MW 6
(<0.11)

Fence

Gate

asphalt

Office

Grass

MW 1
(<0.11)

Stone

MW 14
(6.4)

HL

Dispenser

Kiosk

Stone

Property Boundary

Fence

HL FD

MW 2
(0.78)

MW 19
(<10)

RW 1
(<0.11)

MW 16
(0.61)

Grass

HL

FD

Storm Drain

Shed

Shed

Concrete
Over New
Tanks

Electric

Sewer line

MW 7
(0.16J)

Stone

Fence

MW 11
(NA)

Gas Line

Guard Rail

Guard Rail

Fence

Shed

Fence

Guard Rail

Fence

MW 3
(4)

MW 4
(0.70)

MW 8
(0.41J)

P107

MW 9
(5.8)

Grass

Swale

MW 10
(0.94)

MW 12
(0.30J)

Water line

MW 13
(1.1)

Storm Drain

Driveway

Water Line

MW 18
(<1)

Sewer line

MW 20

(3.1) Concentration in MW 20 may be related to sewage
Sewage odor in MW 20 groundwater sample

Washington Place

1

1

1

1

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Oump Island with dispenser

Key

- Existing Groundwater Monitoring Well
- (0.94) — Beryllium concentration in monitoring wells on 12/19-21/2016 except MW 17, 18, 19 & MW 20 Concentration in in MW 17, MW 18 & MW 19 on 10/3/18 Concenrtation in MW 20 on 1/18/19 (ppb)
- (1.1) — Beryllium concentration above standard
- (<10) — Detection level above standard
- — 1 — Inferred extent of beryllium above standard of 1 ug/l dashed where approximated

Note: Groundwater Class IIA standards is 1 ppb
Fresh water chonic criteria is 3.6 ug/l
Fresh water human health criteria is 6.0 ug/l

Tree

N

0' 30'

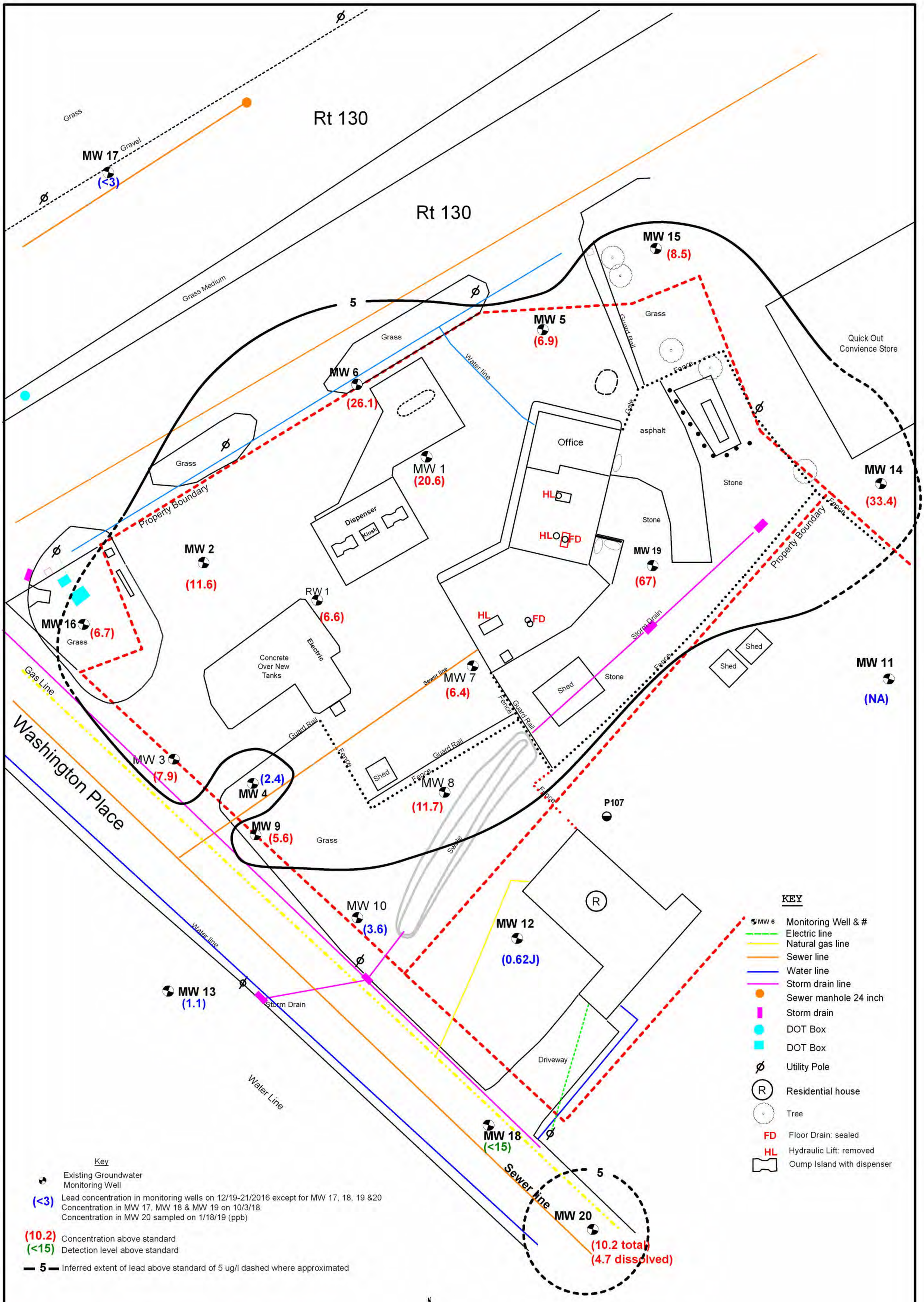
Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing # Beryllium GW

Date 12/6/18

Figure 15 Beryllium
Groundwater 12/19 - 21/16
10/3/18 & 1/18/19



Note: Groundwater Class IIA standards is 5 ppb
Fresh water acute criteria is 38 ug/l dissolved
Fresh water chronic criterial is 5.4 ug/l dissolved
Fresh water human health criteria is 5.0 ug/l total

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #. GW Lead
Date 2/13/19

Figure 16 Lead in Groundwater
12/19 - 21/16 &
10/3/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(13.5)

Grass Medium

MW 15
(74.3)

Grass

Guard Rail

MW 5
(13.8)

Quick Out
Convience Store

Fence

100

Water line

Gate

asphalt

Office

Grass

MW 6
(<2.8)

MW 1
(4.9J)

Stone

MW 14
(159)

HL

Dispenser

Kiosk

Property Boundary

Fence

Stone

HL

FD

MW 2
(62)

MW 19
(<100)

RW 1
(7.4J)

HL

FD

Storm Drain

MW 16
(43.6)

Grass

Concrete
Over New
Tanks

Electric

Shed

Shed

Shed

MW 11
(NA)

Gas Line

Sewer line

MW 7
(45.3)

Guard Rail

Fence

Guard Rail

Stone

Fence

Storm Drain

Fence

100

Washington Place

MW 3
(195)

(54.7)
MW 4

Shed

Fence

Guard Rail

MW 8
(28.5)

Fence

MW 9
(190)

Grass

Swale

MW 10
(32.7)

R

MW 12
(25.2)

Water line

MW 13
(49.6)

Storm Drain

Driveway

Water Line

MW 18
(14.8)

Sewer line

100

MW 20

(132 total)
(125 dissolved)

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser

Key

Existing Groundwater
Monitoring Well

(7.4) Nickel concentration in monitoring wells on 12/19-21/2016 except MW 17, 18, 19 & MW 20
Concentration in MW 17, MW 18 & MW 19 sampled on 10/3/18.
Concentration in MW 20 sampled on 1/18/19 (ppb)

(159) Concentration above standard

—100— Inferred extent of nickel above standard of 100 ug/l dashed where approximated

Note: Groundwater Class IIA standards is 100 ppb
Fresh water acute & chronic criteria depends on hardness
Fresh water human health criteria is 500 ug/l

Tree

N

0' 30'
Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #. GW Nickel

Date 2/13/19

Figure 17 Nickel
Groundwater 12/19 - 21/16
10/3/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(1.6)

Grass Medium

MW 15
(3)

MW 5
(35.8)

Guard Rail

Grass

Quick Out
Convience Store

Fence

Water line

MW 6
(14.8)

Gate

asphalt

Office

MW 1
(13.2)

Grass

Stone

MW 14
(50.6)

HL

Dispenser

Kiosk

Property Boundary

Fence

Stone

HL

FD

MW 2
(5.8)

MW 19
(38.4)

RW 1
(1.6J)

HL

FD

MW 16
(1.5)

Grass

Storm Drain

Concrete
Over New
Tanks

Electric

Shed

Shed

Gas Line

MW 7
(24.2)

Sewer line

Stone

Fence

Guard Rail

Fence

MW 11
(NA)

Washington Place

MW 3
(8.2)

(7.1)
MW 4

Guard Rail

Fence

Shed

Fence

MW 8
(28.3)

Fence

MW 9
(10.5)

Grass

Swale

MW 10
(2.7)

R

MW 12
(1.8J)

Water line

MW 13
(1.7J)

Storm Drain

Driveway

Water Line

MW 18
(2.5)

Sewer line

MW 20

(2.5 total)
(<1) dissolved)

Key

Existing Groundwater
Monitoring Well

(2.5) Arsenic concentration in monitoring wells on 12/19-21/2016 except MW 17, 18, 19 & MW 20
Concentration in MW 17, MW 18 & MW 19 sampled on 10/3/18.
Concentration in MW 20 sampled on 1/18/19 (ppb)

(3.8) Concentration above standard

—100— Inferred extent of arsenic above standard of 3 ug/l dashed where approximated

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser

Note: Groundwater Class IIA standards is 3 ppb
Fresh water acute criteria is 340 ppb
Fresh water chronic criteria is 150 ppb
Fresh water human health criteria is 0.017 ppbl

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 SHEPHERDS WAY • COATESVILLE, PA 19320
PHONE: (610) 384-2719 • FAX (610) 384-2709

Drawing #: GW Arsenic

Date 2/13/19

Figure 18 Arsenic
Groundwater 12/19 - 21/16
10/3/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(<3)

Grass Medium

MW 15
(4)

MW 5
(14.5)

Guard Rail

Grass

Quick Out
Convience Store

Fence

Water line

Gate

asphalt

Office

Stone

MW 6
(2.1)

Grass

4

MW 1
(10.7)

Property Boundary

Dispenser

Kiosk

HL

FD

MW 14
(4.2J)

Fence

Property Boundary

MW 2
(5.3)

MW 19
(<30)

RW 1
(5.3J)

HL

FD

Storm Drain

MW 16
(2.6)

Grass

Concrete
Over New
Tanks

Electric

Gas Line

Sewer line

MW 7
(8.2)

Guard Rail

Fence

Shed

Stone

Shed

Shed

MW 11
(NA)

Washington Place

MW 3
(1.8)

(5.7)
MW 4

Guard Rail

Fence

Shed

Fence

MW 8
(3.1)

Fence

MW 9
(6.7)

Grass

Swale

MW 10
(3.4)

R

MW 12
(1.8)

Water line

MW 13
(1.8)

Storm Drain

Driveway

Water Line

MW 18
(<3)

Sewer line

MW 20

(<3 total)
(<3) dissolved)

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser

Key

Existing Groundwater
Monitoring Well

(1.8) Cadmium concentration in monitoring wells on 12/19-21/2016 except MW 17, 18, 19 & MW 20
Concentration in MW 17, MW 18 & MW 19 sampled on 10/3/18.
Concentration in MW 20 sampled on 1/18/19 (ppb)

(6.7) Concentration above standard

— 4 — Inferred extent of cadmium above standard of 4 ug/l dashed where approximated

Note: Groundwater Class IIA standards is 4 ppb
Fresh water acute criteria is ? ppb
Fresh water chronic criteria is ? ppb
Fresh water human health criteria is 3.4 ppb

N

0' 30'
Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #
GW Cadmium

Date
2/13/19

Figure 19 Cadmium
Groundwater 12/19 - 21/16
10/3/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(<50)

Grass Medium

MW 5
(10.5)

Grass

Guard Rail

Grass

Quick Out
Convience Store

MW 15
(120)

100

100

Water line

MW 6
(<1.9)

Fence

Gate

asphalt

Office

Grass

MW 1
(<1.9)

Stone

MW 14
(125)

HL

Dispenser

Kiosk

Stone

Fence

Property Boundary

HL FD

MW 19
(<500)

MW 2
(45.9)

RW 1
(3.7J)

Property Boundary

MW 16
(20.7)

Grass

HL

FD

Storm Drain

Shed

Shed

Concrete
Over New
Tanks

Electric

Gas Line

Sewer line

MW 7
(28.1)

Stone

Fence

Guard Rail

Guard Rail

Shed

MW 11
(NA)

Washington Place

MW 3
(162)

100

(76.4)
MW 4

Guard Rail

Fence

Shed

Fence

Guard Rail

MW 8
(13.9)

Fence

MW 9
(127)

Grass

Swale

MW 10
(19)

R

MW 12
(15.7)

Water line

MW 13
(42.7)

Storm Drain

Driveway

Water Line

MW 18
(<50)

Sewer line

MW 20

(83.3 total)
(78.9) dissolved)

Key

Existing Groundwater
Monitoring Well

(42.7) Cobalt concentration in monitoring wells on 12/19-21/2016 except MW 17, 18, 19 & MW 20
Concentration in MW 17, MW 18 & MW 19 sampled on 10/3/18.
Concentration in MW 20 sampled on 1/18/19 (ppb)

(125) Concentration above groundwater standard

—100— Inferred extent of cobalt above standard of 100 ug/l dashed where approximated

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Oump Island with dispenser

Note: Groundwater Class IIA standards is 100 ppb
Fresh water chronic criteria is 24 ppb

N

0' 30'
Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #
GW Cobalt

Date
2/19/19

Figure 20 Cobalt
Groundwater 12/19 - 21/16
10/3/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(<0.20)

Grass Medium

MW 15
(<0.050)

MW 5
(0.055 J)

Guard Rail

Grass

Quick Out
Convience Store

Fence

Water line

MW 6
(0.067 J)

Gate

asphalt

Office

Grass

MW 1
(<0.050)

Stone

HL

FD

Property Boundary

Dispenser

Kiosk

MW 14
(<0.050)

Fence

Stone

MW 2
(<0.050)

MW 19
(<0.20)

RW 1
(<0.050)

Property Boundary

MW 16
(<0.050)

Grass

HL

FD

Storm Drain

Concrete
Over New
Tanks

Electric

Shed

Shed

Shed

Gas Line

Sewer line

MW 7
(<0.050)

MW 11
(NA)

Fence

Guard Rail

Stone

Fence

Washington Place

Guard Rail

Fence

Guard Rail

MW 3
(<0.050)

Shed

Fence

MW 4
(<0.050)

MW 8
(<0.050)

Fence

P107

MW 9
(<0.050)

Grass

Swale

MW 10
(<0.050)

R

MW 12
(<0.050)

Water line

MW 13
(<0.050)

Storm Drain

Driveway

Water Line

MW 18
(<0.20)

Sewer line

MW 20

(<0.20 total)
(<0.20 dissolved)

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Oump Island with dispenser

Key

Existing Groundwater Monitoring Well

(0.055) Mercury concentration in monitoring wells on 12/19-21/2016 except MW 17, 18, 19 & 20
Concentration in MW 17, MW 18 & MW 19 on 10/3/18
Concentration in MW 20 on 1/18/19 (ppb)

Note: Groundwater Class IIA standards is 2 ppb
Fresh water acute criteria is 1.4 ppb
Fresh water chronic criteria is 0.77 ppb
Fresh water human health criteria is 0.050 ppb

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing # GW Mercury

Date 2/13/19

Figure 21 Mercury
Groundwater 12/19 - 21/16
10/3/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(2,130)

Grass Medium

MW 15
(3,670)

MW 5
(5,920)

Grass

Guard Rail

Fence

Quick Out
Convience Store

Water line

MW 6
(1,050)

Grass

MW 1
(2,460)

Property Boundary

Office

asphalt

Stone

MW 14
(5,780)

Dispenser

Kiosk

HL

FD

Stone

MW 2
(4,140)

MW 19
(60,700)

RW 1
(793)

MW 16
(2,230)

Grass

Concrete
Over New
Tanks

Electric

HL

FD

Storm Drain

Gas Line

Sewer line

MW 7
(2,470)

Shed

Stone

Shed

Shed

MW 11
(NA)

Washington Place

Guard Rail

Fence

Guard Rail

Fence

MW 3
(869)

(2,300)
MW 4

Shed

Fence

MW 8
(1,460)

Fence

MW 9
(5,680)

Grass

Swale

MW 10
(1,510)

R

MW 12
(293)

Water line

MW 13
(617)

Storm Drain

Driveway

Water Line

MW 18
(<200)

Sewer line

MW 20

(6,130 total)
(2,480 dissolved)

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Oump Island with dispenser

Key

Existing Groundwater Monitoring Well

(<200) Aluminum concentration in monitoring wells on 12/19-21/2016 except MW 17, 18, 19 & MW 20
Concentration in MW 17, MW 18 & MW 19 sampled on 10/3/18.
Concentration in MW 20 sampled on 1/18/19 (ppb)

(617) Concentration above groundwater standard

Note: Groundwater Class IIA standards is 200 ppb
All concentrations exceed the groundwater standard

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 SHEPHERDS WAY • COATESVILLE, PA 19320
PHONE: (610) 384-2719 • FAX (610) 384-2709

Drawing #
GW Aluminum

Date
2/19/19

Figure 22 Aluminum
Groundwater 12/19 - 21/16
10/3/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(297)

Grass Medium

MW 15
(1,280)

MW 5
(820)

Grass

Guard Rail

Fence

Quick Out
Convience Store

Water line

MW 6
(276)

Grass

MW 1
(485)

Property Boundary

Office

asphalt

Stone

MW 14
(567)

Dispenser

Kiosk

HL

FD

Stone

Fence

MW 2
(349)

MW 19
(222)

RW 1
(153)

HL

FD

Storm Drain

Property Boundary

MW 16
(22.2)

Grass

Concrete
Over New
Tanks

Electric

Shed

Shed

Gas Line

Sewer line

MW 7
(793)

Guard Rail

Fence

Shed

Stone

Fence

MW 11
(NA)

Washington Place

MW 3
(276)

MW 4
(557)

Guard Rail

Fence

Shed

Fence

MW 8
(249)

Fence

MW 9
(165)

Grass

Swale

MW 10
(38.1)

R

MW 12
(498)

Water line

MW 13
(300)

Storm Drain

Driveway

Water Line

MW 18
(340)

Sewer line

MW 20

(531 total)
(489 dissolved)

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Oump Island with dispenser

Key

Existing Groundwater Monitoring Well

(38.1) Manganese concentration in monitoring wells on 12/19-21/2016 except MW 17, 18, 19 & MW 20
Concentration in MW 17, MW 18 & MW 19 sampled on 10/3/18.
Concentration in MW 20 sampled on 1/18/19 (ppb)

(531) Concentration above groundwater standard

Note: Groundwater Class IIA standards is 50 ppb
All concentrations exceed standard except samples from MW 10 & MW 16

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 SHEPHERDS WAY • COATESVILLE, PA 19320
PHONE: (610) 384-2719 • FAX (610) 384-2709

Drawing #: GW Manganese

Date: 2/19/19

Figure 23 Manganese
Groundwater 12/19 - 21/16
10/3/18 & 1/18/19

Rt 130

Rt 130

50,000

Grass

Gravel

MW 17
(287,000)

Grass Medium

MW 15
(254,000)

MW 5
(33,100)

Grass

Guard Rail

Quick Out
Convience Store

Fence

Water line

MW 6
(143,000)

Gate

asphalt

Office

Grass

MW 1
(144,000)

Stone

HL

FD

MW 14
(592,000)

Property Boundary

Dispenser

Kiosk

Stone

Fence

MW 2
(254,000)

MW 19
(<100,000)

RW 1
(76,300)

HL

FD

Storm Drain

MW 16
(41,200)

Grass

Concrete
Over New
Tanks

Electric

Shed

Shed

Shed

Stone

Fence

MW 11
(NA)

Gas Line

Sewer line

MW 7
(34,800)

Guard Rail

Fence

Guard Rail

Guard Rail

Washington Place

MW 3
(79,400)

(42,000)
MW 4

Fence

Shed

Fence

MW 8
(10,800)

Fence

MW 9
(14,900)

Grass

Swale

MW 10
(22,000)

R

MW 12
(8,480)

Water line

MW 13
(54,300)

Storm Drain

Driveway

Water Line

MW 18
(12,700)

Sewer line

MW 20

(64,300 total)
(62,600 dissolved)

KEY

- MW 6 Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R Residential house
- Tree
- FD Floor Drain: sealed
- HL Hydraulic Lift: removed
- Oump Island with dispenser

Key

- Existing Groundwater Monitoring Well
- (12,700) Sodium concentration in monitoring wells on 12/19-21/2016 except MW 17, 18, 19 & MW 20
  Concentration in MW 17, MW 18 & MW 19 sampled on 10/3/18.
  Concentration in MW 20 sampled on 1/18/19 (ppb)
- (62,600) Concentration above groundwater standard

Note: Groundwater Class IIA standards is 50,000 ppb

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #
GW Sodium

Date
2/19/19

Figure 24 Sodium
Groundwater 12/19 - 21/16
10/3/18 & 1/18/19

Rt 130

Rt 130

Grass

Gravel

MW 17
(3,130)

Grass Medium

MW 15
(1,940)

MW 5
(65,500)

Grass

Guard Rail

Fence

Quick Out
Convience Store

Water line

MW 6
(44,000)

Grass

MW 1
(26,800)

Property Boundary

Office

asphalt

Stone

MW 14
(57,600)

Dispenser

Kiosk

HL

FD

Stone

MW 2
(11,900)

MW 19
(83,900)

RW 1
(5,520)

HL

FD

Storm Drain

Property Boundary

Fence

MW 16
(1,270)

Grass

Concrete
Over New
Tanks

Electric

Gas Line

Sewer line

MW 7
(46,800)

Shed

Stone

Shed

Shed

MW 11
(NA)

Guard Rail

Fence

Guard Rail

Washington Place

MW 3
(4,200)

MW 4
(6,250)

Fence

Shed

Guard Rail

MW 8
(35,800)

Fence

P107

MW 9
(18,000)

Grass

Swale

MW 10
(2,080)

R

MW 12
(2,390)

Water line

MW 13
(2,240)

Storm Drain

Driveway

Water Line

MW 18
(11,900)

Sewer line

MW 20

(19,300 total)
(11,800 dissolved)

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Oump Island with dispenser

Key

Existing Groundwater Monitoring Well

(11,900) Iron concentration in monitoring wells except MW 17, 18 & 19 on 12/19-21/2016 and in MW 17, MW 18 & MW 19 on 10/3/18 & in MW 20 on 1/18/19 (ppb)

Note: Groundwater Class IIA standards is 300 ppb
All concentrations exceed the groundwater standard

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: GW iron

Date 2/13/19

Figure 25 Iron
Groundwater 12/19 - 21/16
10/3/18 & 1/18/19

ATTACHMENTS

ATTACHMENT 1:

Table of Environmentally Sensitive Areas in Vicinity of the Site

Attachment 1
Environmentally Sensitive Areas in Vicinity of the Site*
North Brunswick Gulf Service Station Site
North Brunswick, New Jersey

Environmentally Sensitive Area (as per N.J.A.C. 7:1E-1.8)	Presence in Vicinity of the Site
Surface Waters	Yes
Sources of water supply	No
Bay islands and barrier island corridors	No
Beaches	No
Dunes	No
Wetlands and wetland transition areas	No
Breeding areas for forest area nesting species, colonial water birds or aquatic furbearers	No
Migratory stopover areas for migrant shorebirds, raptors or passerines	No
Wintering areas (including coastal tidal marshes and water areas), waterfowl concentration areas and Atlantic White Cedar stands	No
Prime fishing areas	No
Finfish migratory pathways	No
Special submerged vegetation areas	No
Shellfish harvesting waters	No
Forest areas (prime and unique forest land)	No
Federal and State-listed threatened or endangered species	Yes
Federal and State wilderness areas	No
Federal and State Wild and Scenic River	No

***Note that there are no Environmentally Sensitive Areas on the Site or immediately adjacent to the Site.**

ATTACHMENT 2:

Natural Heritage Program Letter and Database Search Results

State of New Jersey
MAIL CODE 501-04
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF PARKS & FORESTRY
NEW JERSEY FOREST SERVICE
OFFICE OF NATURAL LANDS MANAGEMENT
P.O. BOX 420
TRENTON, NJ 08625-0420
Tel. (609) 984-1339 Fax (609) 984-0427

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

CATHERINE R. McCABE
Commissioner

February 22, 2019

Erik O'Connor
41 Spring Street, Suite 102
New Providence, NJ 07974

Re: North Brunswick Gulf Station
Block(s) - 282, Lot(s) - 1
North Brunswick Township, Middlesex County

Dear Mr. O'Connor:

Thank you for your data request regarding rare species information for the above referenced project site.

Searches of the Natural Heritage Database and the Landscape Project (Version 3.3) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the topographic map(s) submitted with the Natural Heritage Data Request Form into our Geographic Information System. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Landscape Project habitat mapping and the Biotics Database for occurrences of any rare wildlife species or wildlife habitat on the referenced site. The Natural Heritage Database was searched for occurrences of rare plant species or ecological communities that may be on the project site. Please refer to Table 1 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented on site. A detailed report is provided for each category coded as 'Yes' in Table 1.

We have also checked the Landscape Project habitat mapping and Biotics Database for occurrences of rare wildlife species or wildlife habitat in the immediate vicinity (within ¼ mile) of the referenced site. Additionally, the Natural Heritage Database was checked for occurrences of rare plant species or ecological communities within ¼ mile of the site. Please refer to Table 2 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented within the immediate vicinity of the site. Detailed reports are provided for all categories coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and ecological communities. Please refer to Tables 1 and 2 (attached) to determine if any priority sites are located on or in the immediate vicinity of the site.

A list of rare plant species and ecological communities that have been documented from the county (or counties), referenced above, can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/countylist.html. If suitable habitat is present at the project site, the species in that list have potential to be present.

Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes_2010.pdf.

Beginning May 9, 2017, the Natural Heritage Program reports for wildlife species will utilize data from Landscape Project Version 3.3. If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive web application at the following URL,

https://njdep.maps.arcgis.com/apps/webappviewer/index.html?id=0e6a44098c524ed99bf739953cb4d4c7, or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292-9400.

For additional information regarding any Federally listed plant or animal species, please contact the U.S. Fish & Wildlife Service, New Jersey Field Office at http://www.fws.gov/northeast/njfieldoffice/endangered/consultation.html.

PLEASE SEE 'CAUTIONS AND RESTRICTIONS ON NHP DATA', which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/newcaution2008.pdf.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,



Robert J. Cartica
Administrator

c: NHP File No. 19-4007444-16119

Table 1: On Site Data Request Search Results (6 Possible Reports)

Report Name	**Included**	**Number of Pages**
1. Possibly on Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites On Site	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	No	0 pages included
4. Vernal Pool Habitat on the Project Site Based on Search of Landscape Project 3.3	No	0 pages included
5. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included

Table 2: Vicinity Data Request Search Results (6 possible reports)

Report Name	**Included**	**Number of Pages**
1. Immediate Vicinity of the Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites within the Immediate Vicinity	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	1 page(s) included
4. Vernal Pool Habitat In the Immediate Vicinity of Project Site Based on Search of Landscape Project 3.3	No	0 pages included
5. Rare Wildlife Species or Wildlife Habitat In the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species In the Immediate Vicinity of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included

Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
Aves								
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N

APPENDIX Q

COMPLAINCE AVERAGING

MANGANESE DIRECT CONTACT SAMPLES 0 TO 2 feet						
Contaminant	Sample I.D	Depth (ft bgs)	Vertical Zone 0 to 2 ft	Functional Area	Concentration (mg/kg)	MDL (NDs only) (mg/kg)
Manganese	P 10	0 - 1	Surface	FA1 Surface	393	
Manganese	P 22	0 - 0.5	Surface	FA1 Surface	242	
Manganese	P 54	0 - 0.5	Surface	FA1 Surface	90.1	
Manganese	P 54	0.5 - 1	Surface	FA1 Surface	162	
Manganese	P 55	0 - 0.33	Surface	FA1 Surface	168	
Manganese	P 59	0 - 0.5	Surface	FA1 Surface	351	
Manganese	P 59	1.5 - 2	Surface	FA1 Surface	372	
Manganese	P 61	0 - 0.5	Surface	FA1 Surface	277	
Manganese	P 61	1.5 - 2	Surface	FA1 Surface	17.6	
Manganese	P 66	0 - 0.5	Surface	FA1 Surface	381	
Manganese	P 66	1.5 - 2	Surface	FA1 Surface	1380	
Manganese	P 68	0 - 0.5	Surface	FA1 Surface	415	
Manganese	P 68	1.5 - 2	Surface	FA1 Surface	31.9	
Manganese	P 69	0.5 - 1	Surface	FA1 Surface	508	
Manganese	P 69	1 - 1.5	Surface	FA1 Surface	650	
Manganese	P 80	0 - 0.5	Surface	FA1 Surface	29.8	
Manganese	P 82	0 - 0.5	Surface	FA1 Surface	55.6	
Manganese	P 82	1.5 - 2	Surface	FA1 Surface	16.6	
Manganese	P 85	0 - 0.5	Surface	FA1 Surface	2040	
Manganese	P 85	1.5 - 2	Surface	FA1 Surface	56.9	
Manganese	P 92	0 - 0.5	Surface	FA1 Surface	12500	
Manganese	P 92	1.5 - 2	Surface	FA1 Surface	ND	570
Manganese	P 102	0 - 0.5	Surface	FA1 Surface	319	
Manganese	P 102	1 - 2	Surface	FA1 Surface	980	
Manganese	P 103	0 - 0.5	Surface	FA1 Surface	392	
Manganese	P 103	1 - 2	Surface	FA1 Surface	438	
Manganese	P 106	0 - 0.5	Surface	FA1 Surface	35	
Manganese	P 106	1.5 - 2	Surface	FA1 Surface	18.4	
Manganese	P 108	1 - 1.5	Surface	FA1 Surface	17.5	
Manganese	P 119	0 - 0.5	Surface	FA1 Surface	32.8	
Manganese	P 119	0.5 - 1	Surface	FA1 Surface	55.5	
Manganese	P 119	1.5 - 2	Surface	FA1 Surface	61.4	
Manganese	P 120	0 - 0.5	Surface	FA1 Surface	641	
Manganese	P 120	0.5 - 1	Surface	FA1 Surface	232	
Manganese	P 120	1.5 - 2	Surface	FA1 Surface	90.6	

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	10/11/2019 2:48:42 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

manganese 0to2ft DC

General Statistics

Total Number of Observations	35	Number of Distinct Observations	35
Number of Detects	34	Number of Non-Detects	1
Number of Distinct Detects	34	Number of Distinct Non-Detects	1
Minimum Detect	16.6	Minimum Non-Detect	570
Maximum Detect	12500	Maximum Non-Detect	570
Variance Detects	4534924	Percent Non-Detects	2.857%
Mean Detects	689.7	SD Detects	2130
Median Detects	237	CV Detects	3.088
Skewness Detects	5.486	Kurtosis Detects	31.11
Mean of Logged Detects	5.153	SD of Logged Detects	1.555

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.306	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.933	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.39	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.152	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	675.4	Standard Error of Mean	355.1
SD	2070	95% KM (BCA) UCL	1363
95% KM (t) UCL	1276	95% KM (Percentile Bootstrap) UCL	1357
95% KM (z) UCL	1260	95% KM Bootstrap t UCL	3738
90% KM Chebyshev UCL	1741	95% KM Chebyshev UCL	2223
97.5% KM Chebyshev UCL	2893	99% KM Chebyshev UCL	4209

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	2.046	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.819	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.209	**Kolmogrov-Smirnoff GOF**	
5% K-S Critical Value	0.16	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.465	k star (bias corrected MLE)	0.443
Theta hat (MLE)	1485	Theta star (bias corrected MLE)	1556
nu hat (MLE)	31.59	nu star (bias corrected)	30.14
MLE Mean (bias corrected)	689.7	MLE Sd (bias corrected)	1036

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.106	nu hat (KM)	7.454
Approximate Chi Square Value (7.45, α)	2.423	Adjusted Chi Square Value (7.45, β)	2.289
95% Gamma Approximate KM-UCL (use when n>=50)	2078	95% Gamma Adjusted KM-UCL (use when n<50)	2199

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	670
Maximum	12500	Median	232
SD	2101	CV	3.136
k hat (MLE)	0.403	k star (bias corrected MLE)	0.387
Theta hat (MLE)	1664	Theta star (bias corrected MLE)	1731
nu hat (MLE)	28.18	nu star (bias corrected)	27.1
MLE Mean (bias corrected)	670	MLE Sd (bias corrected)	1077
		Adjusted Level of Significance (β)	0.0425
Approximate Chi Square Value (27.10, α)	16.23	Adjusted Chi Square Value (27.10, β)	15.83
95% Gamma Approximate UCL (use when n>=50)	1119	95% Gamma Adjusted UCL (use when n<50)	1147

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.949	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.933	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.104	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.152	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	673.4	Mean in Log Scale	5.143
SD in Original Scale	2100	SD in Log Scale	1.534
95% t UCL (assumes normality of ROS data)	1274	95% Percentile Bootstrap UCL	1348
95% BCA Bootstrap UCL	1877	95% Bootstrap t UCL	3892
95% H-UCL (Log ROS)	1281		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	5.14	95% H-UCL (KM -Log)	1251
KM SD (logged)	1.525	95% Critical H Value (KM-Log)	3.169
KM Standard Error of Mean (logged)	0.264		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	678.2	Mean in Log Scale	5.168
SD in Original Scale	2099	SD in Log Scale	1.535
95% t UCL (Assumes normality)	1278	95% H-Stat UCL	1316

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

99% KM (Chebyshev) UCL	4209

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Vanadium DIRECT CONTACT SAMPLES 0 TO 2 feet						
Contaminant	**Sample I.D.**	**Depth (ft bgs)**	**Vertical Zone 0 to 2 ft**	**Functional Area**	**Concentration (mg/kg)**	**MDL (NDs only) (mg/kg)**
Vanadium	P 10	0 - 1	Surface	FA1 Surface	73.9	
Vanadium	P 22	0 - 0.5	Surface	FA1 Surface	26.3	
Vanadium	P 54	0 - 0.5	Surface	FA1 Surface	20.8	
Vanadium	P 54	0.5 - 1	Surface	FA1 Surface	30	
Vanadium	P 55	0 - 0.33	Surface	FA1 Surface	23.9	
Vanadium	P 59	0 - 0.5	Surface	FA1 Surface	53.2	
Vanadium	P 59	1.5 - 2	Surface	FA1 Surface	45.9	
Vanadium	P 61	0 - 0.5	Surface	FA1 Surface	59.8	
Vanadium	P 61	1.5 - 2	Surface	FA1 Surface	35	
Vanadium	P 66	0 - 0.5	Surface	FA1 Surface	66.8	
Vanadium	P 66	1.5 - 2	Surface	FA1 Surface	40.7	
Vanadium	P 68	0 - 0.5	Surface	FA1 Surface	74.7	
Vanadium	P 68	1.5 - 2	Surface	FA1 Surface	19.5	
Vanadium	P 69	0.5 - 1	Surface	FA1 Surface	39.2	
Vanadium	P 69	1 - 1.5	Surface	FA1 Surface	45.3	
Vanadium	P 82	0 - 0.5	Surface	FA1 Surface	35.8	
Vanadium	P 82	1.5 - 2	Surface	FA1 Surface	15.5	
Vanadium	P 85	0 - 0.5	Surface	FA1 Surface	36.2	
Vanadium	P 85	1.5 - 2	Surface	FA1 Surface	50.2	
Vanadium	P 92	0 - 0.5	Surface	FA1 Surface	80	
Vanadium	P 92	1.5 - 2	Surface	FA1 Surface	17.9	
Vanadium	P 102	0 - 0.5	Surface	FA1 Surface	42.2	
Vanadium	P 102	1 - 2	Surface	FA1 Surface	40.1	
Vanadium	P 103	0 - 0.5	Surface	FA1 Surface	69	
Vanadium	P 103	1 - 2	Surface	FA1 Surface	31.8	
Vanadium	P 106	0 - 0.5	Surface	FA1 Surface	22.4	
Vanadium	P 106	1.5 - 2	Surface	FA1 Surface	11.8	
Vanadium	P 119	0 - 0.5	Surface	FA1 Surface	19.4	
Vanadium	P 119	0.5 - 1	Surface	FA1 Surface	25.2	
Vanadium	P 119	1.5 - 2	Surface	FA1 Surface	23.7	
Vanadium	P 120	0 - 0.5	Surface	FA1 Surface	25.3	
Vanadium	P 120	0.5 - 1	Surface	FA1 Surface	24	
Vanadium	P 120	1.5 - 2	Surface	FA1 Surface	22.7	

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	10/11/2019 3:15:21 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

vanadium 0to2ft DC

General Statistics

Total Number of Observations	33	Number of Distinct Observations	33
		Number of Missing Observations	0
Minimum	11.8	Mean	37.82
Maximum	80	Median	35
SD	18.9	Std. Error of Mean	3.29
Coefficient of Variation	0.5	Skewness	0.83

Normal GOF Test

Shapiro Wilk Test Statistic	0.904	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.931	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.153	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.154	Data appear Normal at 5% Significance Level

Data appear Approximate Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	43.4	95% Adjusted-CLT UCL (Chen-1995)	43.74
		95% Modified-t UCL (Johnson-1978)	43.48

Gamma GOF Test

A-D Test Statistic	0.467	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.75	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.134	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.154	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	4.39	k star (bias corrected MLE)	4.011
Theta hat (MLE)	8.616	Theta star (bias corrected MLE)	9.429
nu hat (MLE)	289.8	nu star (bias corrected)	264.7
MLE Mean (bias corrected)	37.82	MLE Sd (bias corrected)	18.89
		Approximate Chi Square Value (0.05)	228.1
Adjusted Level of Significance	0.0419	Adjusted Chi Square Value	226.3

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	43.91	95% Adjusted Gamma UCL (use when n<50)	44.25

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.968	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk Critical Value	0.931	Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.114	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.154	Data appear Lognormal at 5% Significance Level

Data appear Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	2.468	Mean of logged Data	3.515
Maximum of Logged Data	4.382	SD of logged Data	0.496

Assuming Lognormal Distribution

95% H-UCL	45.03	90% Chebyshev (MVUE) UCL	48.1
95% Chebyshev (MVUE) UCL	52.74	97.5% Chebyshev (MVUE) UCL	59.18
99% Chebyshev (MVUE) UCL	71.83		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution at 5% Significance Level

Nonparametric Distribution Free UCLs

95% CLT UCL	43.24	95% Jackknife UCL	43.4
95% Standard Bootstrap UCL	43.12	95% Bootstrap-t UCL	43.85
95% Hall's Bootstrap UCL	43.56	95% Percentile Bootstrap UCL	43.18
95% BCA Bootstrap UCL	43.61		
90% Chebyshev(Mean, Sd) UCL	47.69	95% Chebyshev(Mean, Sd) UCL	52.16
97.5% Chebyshev(Mean, Sd) UCL	58.37	99% Chebyshev(Mean, Sd) UCL	70.56

Suggested UCL to Use

95% Student's-t UCL	43.4

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.

For additional insight the user may want to consult a statistician.

ARSENIC DIRECT CONTACT SAMPLES 2 feet and deeper						
Contaminant	**Sample I.D.**	**Depth (ft bgs)**	**Vertical Zone 2 ft and Deeper**	**Functional Area**	**Concentration (mg/kg)**	**MDL (NDs only) (mg/kg)**
Asenic	P 68	6 - 6.5	subsurface	FA1 Subsurface	ND	2.2
Asenic	P 73	3	subsurface	FA1 Subsurface	8.3	
Asenic	P 74	6 - 6.5	subsurface	FA1 Subsurface	3.7	
Asenic	P 82	5.5 - 6	subsurface	FA1 Subsurface	20.5	
Asenic	P 85	3.5 - 4	subsurface	FA1 Subsurface	11.4	
Asenic	P 92	6 - 6.5	subsurface	FA1 Subsurface	3.7	
Asenic	P 114	6 - 6.5	subsurface	FA1 Subsurface	2.7	
Asenic	P 115	6 - 6.5	subsurface	FA1 Subsurface	5.1	
Asenic	MW 18	5 - 5.5	subsurface	FA1 Subsurface	ND	2.1
ARITHMETIC MEAN = 6.15						

LEAD DIRECT CONTACT SAMPLES 2 feet and Deeper						
Contaminant	**Sample I.D.**	**Depth (ft bgs)**	**Vertical Zone 2 ft and Deeper**	**Functional Area**	**Concentration (mg/kg)**	**MDL (NDs only) (mg/kg)**
Lead	P 16	4'	subsurface	FA1 subsurface	14.9	
Lead	P 13	4'	subsurface	FA1 subsurface	529	
Lead	P 13	6'	subsurface	FA1 subsurface	49.9	
Lead	P 14	5'	subsurface	FA1 subsurface	55	
Lead	P 15	5'	subsurface	FA1 subsurface	11.2	
Lead	P 90	3.5-4'	subsurface	FA1 subsurface	15.4	
Lead	P 90	5.5-6'	subsurface	FA1 subsurface	10.7	
Lead	P 90	10-10.5'	subsurface	FA1 subsurface	5.3	
Lead	P 89	3.5-4'	subsurface	FA1 subsurface	8.2	
Lead	P 10	3'	subsurface	FA1 subsurface	190	
Lead	P 72	3.5-4'	subsurface	FA1 subsurface	555	
Lead	P 58	6-6.5'	subsurface	FA1 subsurface	9	
Lead	P 59	4.5-5'	subsurface	FA1 subsurface	469	
Lead	P 87	6-6.5'	subsurface	FA1 subsurface	147	
Lead	P 8	6'	subsurface	FA1 subsurface	6.8	
Lead	P 8	12'	subsurface	FA1 subsurface	10.5	
Lead	P 85	3.5-4'	subsurface	FA1 subsurface	ND	7
Lead	P 30	6.5-7'	subsurface	FA1 subsurface	11.5	
Lead	P 30	8'	subsurface	FA1 subsurface	8	
Lead	P 30	17-18'	subsurface	FA1 subsurface	36.8	
Lead	P 30	21'	subsurface	FA1 subsurface	18.9	
Lead	P 66	6-6.5'	subsurface	FA1 subsurface	9	
Lead	P 41	5'	subsurface	FA1 subsurface	15.7	
Lead	P 41	10'	subsurface	FA1 subsurface	9.3	
Lead	P 42	6'	subsurface	FA1 subsurface	10.7	
Lead	P 42	8'	subsurface	FA1 subsurface	5.2	
Lead	P 92	6-6.5'	subsurface	FA1 subsurface	15.4	
Lead	P 17	4'	subsurface	FA1 subsurface	27	
Lead	P 17	9'	subsurface	FA1 subsurface	11.7	
Lead	P 95	5.5-6'	subsurface	FA1 subsurface	9.8	

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	10/14/2019 10:30:44 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

lead 2ftanddeeper DC

General Statistics

Total Number of Observations	31	Number of Distinct Observations	28
Number of Detects	30	Number of Non-Detects	1
Number of Distinct Detects	27	Number of Distinct Non-Detects	1
Minimum Detect	5.2	Minimum Non-Detect	7
Maximum Detect	1490	Maximum Non-Detect	7
Variance Detects	90452	Percent Non-Detects	3.226%
Mean Detects	125.5	SD Detects	300.8
Median Detects	13.3	CV Detects	2.396
Skewness Detects	3.658	Kurtosis Detects	15.04
Mean of Logged Detects	3.257	SD of Logged Detects	1.562

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.458	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.927	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.393	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.162	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	121.7	Standard Error of Mean	53.28
SD	291.7	95% KM (BCA) UCL	215.3
95% KM (t) UCL	212.1	95% KM (Percentile Bootstrap) UCL	211.2
95% KM (z) UCL	209.3	95% KM Bootstrap t UCL	311.5
90% KM Chebyshev UCL	281.5	95% KM Chebyshev UCL	353.9
97.5% KM Chebyshev UCL	454.4	99% KM Chebyshev UCL	651.8

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	4.108	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.828	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.316	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.171	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.415	k star (bias corrected MLE)	0.396
Theta hat (MLE)	302.4	Theta star (bias corrected MLE)	317.2
nu hat (MLE)	24.91	nu star (bias corrected)	23.75
MLE Mean (bias corrected)	125.5	MLE Sd (bias corrected)	199.5

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.174	nu hat (KM)	10.79
Approximate Chi Square Value (10.79, α)	4.441	Adjusted Chi Square Value (10.79, β)	4.216
95% Gamma Approximate KM-UCL (use when n>=50)	295.6	95% Gamma Adjusted KM-UCL (use when n<50)	311.4

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	121.5
Maximum	1490	Median	11.7
SD	296.6	CV	2.441
k hat (MLE)	0.371	k star (bias corrected MLE)	0.356
Theta hat (MLE)	327.6	Theta star (bias corrected MLE)	340.9
nu hat (MLE)	22.99	nu star (bias corrected)	22.1
MLE Mean (bias corrected)	121.5	MLE Sd (bias corrected)	203.5
		Adjusted Level of Significance (β)	0.0413
Approximate Chi Square Value (22.10, α)	12.41	Adjusted Chi Square Value (22.10, β)	12.01
95% Gamma Approximate UCL (use when n>=50)	216.3	95% Gamma Adjusted UCL (use when n<50)	223.6

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.802	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.927	Detected Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.26	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.162	Detected Data Not Lognormal at 5% Significance Level

Detected Data Not Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	121.6	Mean in Log Scale	3.179
SD in Original Scale	296.5	SD in Log Scale	1.596
95% t UCL (assumes normality of ROS data)	211.9	95% Percentile Bootstrap UCL	216.6
95% BCA Bootstrap UCL	273.9	95% Bootstrap t UCL	337.7
95% H-UCL (Log ROS)	219		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	121.6	Mean in Log Scale	3.192
SD in Original Scale	296.5	SD in Log Scale	1.578
95% t UCL (Assumes normality)	212	95% H-Stat UCL	211.6

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

99% KM (Chebyshev) UCL	651.8

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Appendix R

Classified Exemption Area

New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

CLASSIFICATION EXCEPTION AREA / WELL RESTRICTION AREA (CEA/WRA) FACT SHEET FORM

Date Stamp
(For Department use only)

SECTION A. SITE INFORMATION

Site Name: Lawrence Fuel LLC, AKA 1696 Rt 130 LLC AKA North Brunswick Gulf

Program Interest (PI) Number(s): 010180

Case Tracking Number(s) for this submission: 01-08-30-1546-07, 01-08-30-1549-55, 19-05-08-1010-08

This form must be attached to the Cover / Certification Form if not submitted through the Remedial Phase Report Online Service

1. Indicate the reason for submission of this form *(see instructions)*:

☒ New CEA ☐ Revise CEA ☐ Reestablish CEA ☐ Existing CEA with no changes
☐ CEA for historic fill ☐ CEA for Historically Applied Pesticides (HAP) ☐ CEA lift/removal

If you are submitting this form for an existing CEA provide the CEA Subject Item ID: _____

2. Indicate the type of ground water Remedial Action (RA):

☐ Natural ☐ Active ☒ Final RA not yet selected

3. Is this form being submitted with a Remedial Action Permit (RAP) Form (for Soil or Ground Water)?.... ☐ Yes ☒ No

SECTION B. CEA COMPONENT AND VAPOR INTRUSION INFORMATION

Name of document that includes the CEA Fate and Transport Description: Remedial Investigation Report

Date of document: 09/30/2019

1. **Ground Water Classification:** What is the ground water classification within the CEA as per N.J.A.C. 7:9C?

(Check all that apply)

☐ Class I-A
☐ Class I-PL Pinelands Protection Area
☐ Class I-PL Pinelands Preservation Area
☒ Class II-A
☐ Class III-A
☐ Class III-B

2. **Contaminant Data:** This CEA/WRA applies only to the contaminants listed below with concentrations above, or assumed to be above, numeric values established for the applicable classification area via the Ground Water Quality Standards (GWQS), N.J.A.C. 7:9C. Except for historic fill CEAs based on assumed ground water contamination, list the maximum contaminant value for all ground water data that could be representative of **current** conditions for any well or sampling point used to establish the CEA. See form instructions before entering data into the below table.

Contaminant	Concentration (1)	GWQS (2)	SWQS(3)	GWSL(4)
Benzene	1,660	1		20
Ethylbenzene	2,800	700		700
Toluene	2,510	600		330,000
Xylenes	10,800	1,000		8,600
MTBE	83.6	70		580

Notes: (1) Maximum concentration in Micrograms Per Liter
(2) New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C-1.7 and 1.9(c)
(3) Surface Water Quality Standards, N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body.
(4) Current NJDEP Vapor Intrusion (VI) Ground Water Screening Levels (GWSL) available at http://www.nj.gov/dep/srp/guidance/vaporintrusion/

☒ Check if attaching the form Addendum to list additional contaminants and associated information.

3. CEA Boundaries and VI Pathway Status: Year of tax map used: 1998

Are there volatile contaminants in the CEA? ☒ Yes ☐ No

Is there LNAPL currently found in the CEA? ☐ Yes ☒ No

For CEA revisions only:

☐ Check if CEA Boundary has changed (*See instructions*)

☐ Check if Block and Lot numbers have changed (*See instructions*)

List the block(s) and lot(s) included in the areal extent of the CEA and check the appropriate boxes:

Block	Lot(s)	Check if off-site	Check if VI pathway was evaluated*	Check if VI pathway status is indeterminate*
282	1	☐	☒	☐
282	2	☒	☒	☐
None	Rt 130	☒	☒	☐
None	Washington Place	☒	☒	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

☐ Check if attaching an Addendum to list additional Blocks/Lots and associated information. *(see instructions)*

*Follow instructions for parcels where the vapor intrusion (VI) pathway was evaluated and the status is indeterminate.

Direction of ground water flow: south & SE (*If multiple water bearing zones exist within the CEA and/or there is no predominant flow direction, see instructions.*)

Vertical depth of CEA: 30 (ft bgs) **and** 80 (msl).

Horizontal extent of CEA: 69,069 Indicate units: ☐ acres or ☒ square feet

Name(s) of the affected Geologic Formation(s)/Unit(s) (*see instructions if multiple formations/units affected)*:

Pennsauken Formation

Narrative description of proposed CEA boundaries:

The plume is approximately 253 ft in a north to south direction and 273 feet in an east to west direction and extends approx. 80 feet beneath Rt 130, approx. 24 ft beneath Washington Place & approx. 45 feet onto an adjacent property at Block 282 Lot 2. The plume is stable and in some locations shrinking. The plume was horizontally delineated based on actual analytical data from 20 monitoring wells. THe vertical extent is projected at 30 feet below grade based on professional judgement. A clay layer was detected at a depth of 20 feet below grade which should limit the vertical extent. Impacts are projected to remain above standards for another 37 years.

4. Projected Term of CEA: *(Based on modeling/calculations in the fate and transport description)*

Proposed Duration in Years: 37 Anticipated Expiration Date: 05/21/2056

or ☐ Indeterminate (*Review instructions before selecting* "Indeterminate" *for the CEA duration.*)

5. ATTACH AND/OR SUBMIT THE FOLLOWING: (*see instructions for additional information/requirements*)

Exhibit A: Site Location Maps – Based on USGS Quadrangle Map;

Exhibit B: CEA Map and Cross Section Figure – See N.J.A.C 7:26C- 7.3(c)1 and 2 and instructions regarding what is required to be included on the map and the cross-section figure.

Exhibit C: GIS Deliverables – CEA Boundary Extent Map. The CEA Boundary Extent Map shall be submitted via email to srpgis_cea@dep.nj.gov. (*See the instructions for detailed GIS deliverable requirements.)*

Identify format of CEA Boundary Extent Map being submitted: ..... ☒ Shape File ☐ CAD File ☐ N/A

If there is a CEA map already on NJ-GeoWeb, does it need to be revised? ..... ☐ Yes ☐ No ☒ N/A

SECTION C. CURRENT GROUND WATER USE DOCUMENTATION

1. Indicate the year of the most recent well search completed per N.J.A.C. 7:26E-1.14: 2019
2. If this Fact Sheet form is for a revised CEA or an existing CEA with no changes, have new wells been installed since the CEA was established? ☐ Yes ☐ No ☒ N/A
3. Are there any pumping wells (e.g., potable, industrial, irrigation or recovery wells) within the foot print of the CEA? ☐ Yes ☒ No

   If "Yes" list/attach list of the type and status of any pumping well(s) within CEA:

SECTION D. WELL RESTRICTION INFORMATION

Certain well restrictions relevant to potable ground water use, such as "Double Case Wells", "Sample Potable Wells", and "Evaluate Production Wells", are consistently set within the boundaries of all CEAs established by the NJDEP in Class I and II-A areas (*see instructions*).

1. Are there any other site-specific well restrictions relevant to potable ground water use that should be set within or near the boundaries of the proposed CEA? ☐ Yes ☒ No

   If "Yes", describe below any such site-specific well restrictions proposed for this CEA:

SECTION E. PUBLIC NOTIFICATION REQUIREMENTS

1. Indicate which of the following entities have been notified pursuant to N.J.A.C. 7:26C-7.3(d) and the dates each notification was sent. (*check all that apply*)

☒ Municipal and county clerk(s)	Dated mailed:	09/16/2019
☒ Local, county or regional health department(s)	Dated mailed:	09/16/2019
☐ Designated County Environmental Health Act agency (if applicable)	Dated mailed:	09/16/2019
☒ County Planning Board	Dated mailed:	09/16/2019
☐ Pinelands Commission (if applicable)	Dated mailed:	09/16/2019
☒ Owners of real property overlying CEA foot print	Dated mailed:	09/16/2019

2. **List of Names and Addresses** – List below and/or in an attachment, the names/addresses of all persons notified pursuant to N.J.A.C. 7:26C-7.3(d) based on the proposed CEA boundaries. If the site property owner differs from the person responsible for conducting the remediation, check here ☐ and enter the site owner's name and address first in the table below. *See instructions for more information regarding the address list.*

Entity or Owner Name	**Notification Address Used** If owner address differs from property address overlying CEA, add an " * " after the address.	**Blocks/Lots overlying CEA owned by this person** Block	Lot(s)
Walter Lapp	555 Georges Road Daayton, NJ 08810 *	B 282	L 1
Ruth Frey	582 S. Waterloo Road Devon, Pa. 19333 *	B 282	L 1
Thomas Csepes	359 Washington Place North Brunswick NJ 08902	B 282	L 2
Middlesex County Health Dept.- Lester Jones	35 Kennedy Boulevard East Brunswick, NJ 08816		
Middlesex County Office of Planning - Mirah Becker	5th Floor 75 Bayard St. New Brunswick, NJ 08901		
Middlesex County Clerk - Elaine Flynn	75 Bayard St. New Brunswick, NJ 08901		
North Brunswick Clerk - Lissa Russo	North Brunswick Municipal Bldg. 710 Herman Rd North Brunswick, NJ 08902		
North Brunswick Health Officer - Nick DeStefano	North Brunswick Municipal Bldg. 710 Herman RD North Brunswick, NJ 08902		
North Brunswick Dept. of Public Works - Eric Chaszar	45 Quarry Lane North Brunswick, NJ 08902		
NJ Dept. of Transporation - Dianne Scaccetti	Davis Goldberg Complex 1035 Parkway Ave. Trenton, NJ 08625		
Petroleum Supply Corp: Ted Cohen	3701 Bedford Ave. Brooklyn, NY 11229		
Brunswick Auto Craft	1696 Georges Rd North Brunswick, NJ 08902		
Hare Krishna Fuel, Inc.	1696 Georges Rd North Brunswick, NJ 08902		

ADDENDUM
Classification Exception Area / Well Restriction Area
Fact Sheet Form

Section B. CEA Component and Vapor Intrusion Information

1. **Contaminant Data** (continued): This CEA/WRA applies only to the contaminants listed on page 1 and in the table below with concentrations above, or assumed to be above, numeric values established for the applicable classification area via the GWQS, N.J.A.C. 7:9C. Except for historic fill CEAs based on assumed ground water contamination, list below the maximum contaminant value for all ground water data that could be representative of **current** conditions for any well or sampling point used to establish the CEA. See form Instructions before entering data into the tables below.

Contaminant	Concentration (1)	GWQS (2)	SWQS(3)	VI GWSL(4)
TBA	241	100		
Tetrachloroethene (PCE)	1.8	1		31
1,2,4 Trimethylbenzene	2,450	100		
VOC TICs	8,140	500		
Bis(2-ethylhexyl)phthalate	5	3		
1 and 2-Methylnaphthalene	100/92.3 I	5/30		
Naphthalene	433	300		300
SVOC TICs	3,898	500		
Aluminum & Arsenic: Naturally occurring	7810/17.4	200/3		
Beryllium: Naturally ocurring	2.1	1		
Iron & Sodium: Naturally occurring	72,800/380,000	300/50,000		
Manganese : Naturally occurring	1,530	50		
Lead: Naturally occuring	17.5	5		

Notes: (1) Maximum concentration in Micrograms Per Liter
(2) New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C-1.7 and 1.9(c)
(3) Surface Water Quality Standards, N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body.
(4) Current NJDEP Vapor Intrusion (VI) Ground Water Screening Levels (GWSL)

2. **CEA Boundaries and VI Pathway Status** (continued): List additional parcels included in the CEA. Attach additional Addendum sheets if necessary to list all blocks and lots within the CEA.

For CEA revisions, check here if block and lot numbers have changed: ☐

Block	Lot(s)	Check if off-site	Check if VI pathway was evaluated*	Check if VI pathway status is indeterminate*
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

* Follow instructions for parcels where the vapor intrusion (VI) pathway was evaluated and status is indeterminate.

Information required to be submitted with CEA per ARRCS 7:26C

1. Copies of required maps are attached as **Figure 1, 2, 3, 4 and 5** and include site location map, AOC map, CEA Boundary Extent map and two cross sections, respectively.

2. How horizontal and vertical extent predictions were performed.

Since the source of the most mobile compounds were removed 17 years ago and groundwater analytical data from monitoring wells indicates the plume is stable and in some locals shrinking, extent predictions were made using professional judgment that concluded:

- the plume will only decrease in size with time.
- The horizontal extent is equal to the current extent of the plume (253 ft in north to south direction and 273 ft in east to west direction).
- The vertical extent is estimated at 30 feet below grade, which is 10 feet below a clay layer detected at a depth of 20 feet below grade.

Data that supports this conclusion is highlighted below:

- Groundwater analytical data from down gradient monitoring wells MW 3 and MW 8 indicate the concentrations of benzene, MTBE and TBA have decreased to below the standard with time as highlighted below:

Contaminant	Concentration in 2009 (ug/l)	Concentration in 2019 (ug/l)
Benzene MW 3	1.7	<0.43
MTBE MW 3	2000	65.4
TBA MW 3	6300	64.3
Benzene MW 8	32	<0.43
MTBE MW 8	280	0.75 J
TBA MW 8	340	<5.8

  Groundwater analytical data from 20 monitoring wells is summarized on individual well forms that show the concentrations in most wells have decreased over time **(Table 1)**.

- Nine (9) monitoring wells have been installed along the periphery of the plume to evaluate horizontal extent and contaminant transport (MW 9 through MW 18 and MW 20). Groundwater samples from those well that were collected over time have indicated that the concentrations of benzene, MTBE and TBA in those wells were always below the GWQS, which indicates the plume is not expanding. It also indicates the plume started to shrink around 2009 when the concentrations in MW 8 (the most down gradient impacted well) began to decrease.

- Although only four sampling events were available since remedial efforts stopped in July 2003 and R-squared values were low, concentration versus time plots for all volatile organic

compounds that have had concentrations above the GWQS at one time (MW 1 through MW 8 & RW 1) do show a decreasing trend over time with the exception of the following:

- Benzene in MW 4 increased.
- BTEX, MTBE and TBA in RW 1 increased likely due to an elevated water table.

The concentration versus time series plots are attached.

- Trend analysis using the Mann Kendall Statistical Test indicates:

  The concentrations of BTEX. MTBE and TBA is either stabile or decreasing in most wells. A summary of the Mann Kendal analysis is presented below and snap shots of the Mann Kendall spreadsheets are attached.

Well ID	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
MW 1	Stabile	Non-stabile	Stabile	Stabile	Decreasing	Decreasing
MW 2	Stabile	Decreasing	Stabile	Stabile	Stabile	Decreasing
MW 3	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Non-stabile
MW 4	Non-stabile	Decreasing	Decreasing	Non-stabile	Decreasing	Decreasing
MW 5	Stabile	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
MW 6	Decreasing	Non-stabile	Non-stabile	Non-stabile	Non-Stabile	Decreasing
MW 7	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
MW 8	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Non-stabile
RW 1	Non-stabile	Non-stabile	Non-stabile	Non-stabile	Non-stabile	Stabile

- Based on slug test performed at the site in four wells the hydraulic conductivity of the subsurface aquifer ranges from 3.34 ft/day at the up gradient northeast end of the site (which is characteristic of a fine sand) to an average of 0.12 ft/day in the down gradient south west end of the site (which is characteristic of silt, clay and mixtures of sand, silt and clay). The low hydraulic conductivity of the material at the southwest end of the site has limited the horizontal migration of the contaminants. The slug test data is summarized below and printout of the slug test analysis were presented to the NJDEP in a *Preliminary Site Investigation/Remedial Action Report"* dated May 1,2002.

Rising Head Permeability Test	
Location	ft/day
MW 1	3.339
MW 2	0.0599
MW 3	0.291
MW 4	0.007704
Geometric Mean	0.1455

- Based on borings installed at the site the subsurface material at the up gradient northeastern part of the site is composed of silty clays to a depth of 12 feet underlain by fine to medium sands with thin interbedded silty and sandy clays to a depth of 20 feet, which is underlain by a plastic clay of undetermined thickness. The material from the middle of the site to the southwest is mainly a silty clay to a depth of approximately 20 feet, which is also underlain by a plastic clay. The clayey nature of the material at the southwest end of the site has limited the

horizontal migration of contaminants in the subsurface and the clay layer at a depth of 20 feet below grade will limit the vertical extent of the impacts.

- **Figure 3 in Appendix Q** shows the proposed CEA boundary. The CEA boundary is based on two rounds of groundwater data collected in 2016 and 2019 from twenty (20) monitoring wells.

- **Figures 6 in Appendix Q** is a water table gradient map showing the inferred direction of groundwater flow on 5/21/19, which indicates the main direction of groundwater flow is towards the south and southeast, which is in line with the topographic gradient.

2. How the CEA duration was estimated.

The duration was estimated by performing regression analysis on groundwater data collected over time from individual wells to develop site specific degradation rates for the contaminants of concern. Then using that data in the formulas below:

Half life in days = $t_{1/2}$ = 0.693 divided by degradation rate

Duration of CEA = $\frac{-t_{1/2}\,[\ln C/Co]}{.693}$

where :

t1/2 is the half life in days

C: final concentration = ground water quality standard

Co: Initial concentration

Based on site specific degradation rates for the most mobile contaminants of concern the duration of the plume has been calculated to be above standards for 36.5 more years (which will be approximately 48 years after the source has been removed - year 2056). The regression analysis and duration calculations are summarized below and are attached.

MW ID	Duration for benzene to reach GWQS from 5/22/19 (years)	Duration of MTBE to reach GWQS from 5/22/19 (years)	Duration of TBA to reach GWQS from 5/22/19 (years)
MW 1	36.53	Will likely reach standard in next few years	May have reached the standard
MW 2	15.13	Reached standard in last 2 samples	Will likely reach standard in next few years
MW 3	Reached standard in last 2 samples	Reached standard in last sample	Reached standard in the last sample
MW 4	Not determined because concentrations increased in last sample	Reached standard in last 2 samples	Reached standard in last 2 samples
MW 5	Reached standard in the	Never was above the	Reached standard in

	last sample	standard	last 3 samples
MW 6	9.73	Reached standard in last 2 samples	Reached standard in last 2 samples
MW 7	16.83	Reached standard in last sample	Reached standard in the last sample
MW 8	Reached standard in last 2 samples	Reached standard in last 2 samples	Reached standard in last 2 samples
RW 1	Not determined because concentrations increased in last sample	Not determined because concentrations increased in last sample	Not determined because concentrations increased in last sample

Since the longest time to reach the GWQS calculated to be at MW 1 and that duration is greater than 30 years additional remediation may be conducted at MW 1 to reduce the cleanup time.

3. That the vapor intrusion pathway was included in the fate and transport description, if applicable.

The compounds that had concentrations above the Ground Water Quality Screening Levels for Vapor Intrusion (GQSLVI) include benzene, ethylbenzene, xylenes and naphthalene. The inferred distribution of those compounds are shown on **Figures 60, 61, 63 and 71 in the RIR** (generated from the last sampling event) indicate the onsite building and convenience store located adjacent to the site are within the 30 foot trigger distance for benzene and ethylbenzene and that the onsite building is also within the 30 foot trigger distance for xylenes and naphthalene. Since the facility uses the ontaminants of concern in its operations collecting VI samples at the onsite building was not conducted. The VI pathway will need to be addressed in a deed notice to ensure public health will be protected in the future if the land use or facility operations change. To evaluate the VI pathway at the adjacent property On-Site contacted the LSRP on record for the 1674 RT 130 site (which has a PCE problem) and secured summary tables and sample location figures of sub-slab soil gas samples collected at the convenience store. That data indicated the only compounds above the standards were PCE and TCE and that the concentration of gasoline related compounds were below the sub-slab soil gas screening levels. In light of that information the LSRP for the NBG site concluded the VI pathway has been evaluated and is not a concern at the adjacent property. The sub-slab soil gas data secured from the adjacent site is presented in **Appendix J of the RIR**.

4. That a site specific evaluation was conducted regarding how changes in property use or conditions above the CEA area could affect the fate and transport of the groundwater contamination or of vapors emanating from the plume.

If the land use changes to residential the VI pathway will need to be reevaluated and preconstruction activities should include a vapor barrier within the footprint of the proposed building structures. In addition, if the unpaved area within the CEA are paved that could result in a decrease of infiltrating water which in turn will increase the soil gas air space (i.e., dry out the soil), which in turn can increase the vapor phase transport to groundwater by vapor phase diffusion and advection. Therefore, if areas are paved where the soil concentrations are greater that the default impact to groundwater screening levels 4 to 8 quarters of groundwater data will need to be performed to demonstrate the concentrations in groundwater are still decreasing.

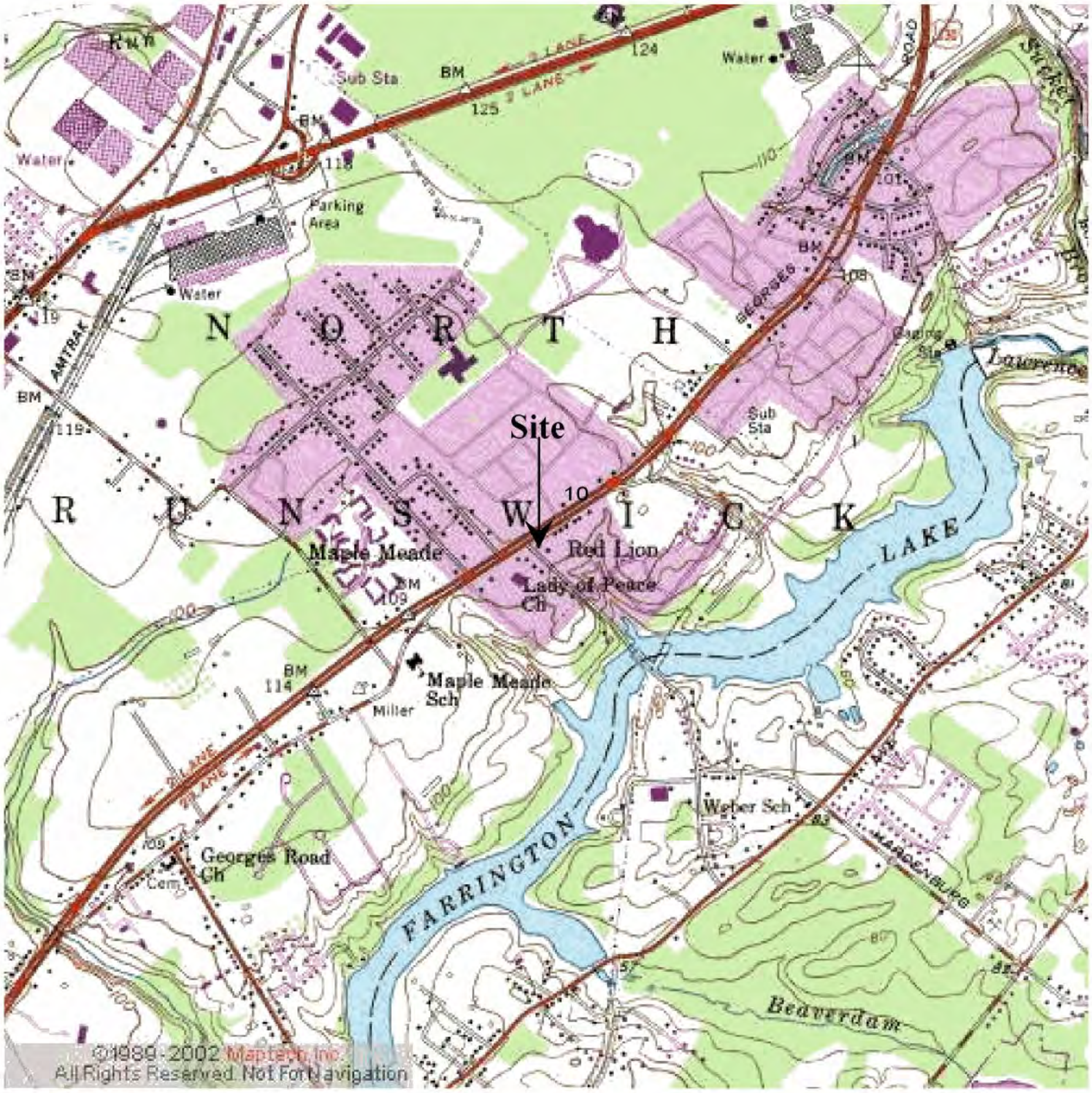
Also if paved areas are disturbed infiltration of rainwater would increase, which in turn could result in more contaminants leaching from the soil to the groundwater resulting in increased concentrations in groundwater. Therefore paved areas should be maintained to minimize increased infiltration.

5. An estimate of how far the plume will travel before it decreases to the ground water quality standards.

Since the site data indicates the plume is stable and shrinking it has been concluded based on professional judgment that the plume will not travel further than its current extent.

6. An estimate of how long the CEA will need to remain in place.

Based on the analysis described above in item # 2 the CEA will need to remain in place for 36.5 years from 5/21/19 which is until 2056. If further remediation is conducted then the duration will need to be re-evaluated.



North Brunswick Quadrangle

N

0' 2030'

(approximate scale in feet)

Contour Interval: 10 feet
Photo Revised: 1981

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: File : Topo 10

Date 8/12/16

Figure 1 Site Location

North Bruswick Gulf
1696 Georges Road Rt 130
North Brunswick,New Jersey

Rt 130

Rt 130

Grass

Gravel

MW 17

Grass Medium

MW 15

AOC 4

MW 5

Grass

Guard Rail

Quick Out
Convience Store

Water line

Fence

MW 6

AOC 2

Gate

asphalt

Office

AOC 5

Grass

MW 1

Stone

MW 14

AOC 10

HL

Stone

AOC 6

HL

FD

Property Boundary

Dispenser

Kiosk

MW 2

AOC 1

MW 19

AOC 7

AOC 9

RW 1

HL

FD

AOC 3

F24

AOC 12

AOC 7

MW 16

Grass

Concrete
Over New
Tanks

Electric

Sewer line

MW 7

Shed

Stone

Fence

MW 11

Gas Line

AOC 1

Guard Rail

Fence

Shed

Shed

AOC 11

Washington Place

MW 3

Guard Rail

Fence

Shed

Guard Rail

MW 4

Fence

MW 8

Proposed CEA Boundary

MW 9

Grass

Swale

AOC 8

Fence

MW 10

R

MW 12

Water line

MW 13

Storm Drain

Driveway

Water Line

MW 18

Sewer line

MW 20

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Pump Island with dispenser
Direction of Groundwater flow

List of Areas of Concern (AOCs)

AOC 1: Historical & current UST location.
AOC 2: Former pump island.
AOC 3: Area behind station where high levels of lead were detected in soil.
AOC 4: Unregulated heating oil UST closed in place.
AOC 5: Unregulated heating oil AST.
AOC 6: Waste oil & heating oilAST.
AOC 7: Stom drains behind station.
AOC 8: Swale associated with storm drains.
AOC 9: Two Former floor drains in service area.
AOC 10: Three Former in ground hydraulic lifts in service area.
AOC 11: Former septic system - suspect location
AOC 12: Former Parts Cleaning Basin
AOC 13: Ground water media.

N

0' 30'
Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing # GW AOCs

Date 2/13/19

Figure 2 AOC Locations

North Brunswick Gulf
1696 Georges Road RT 130
North Brunswick, New Jersey 08902

Rt 130

Rt 130

Grass

Gravel

MW 17

Grass Medium

MW 15

MW 5

Grass

Guard Rail

Quick Out
Convience Store

Fence

Water line

MW 6

Gate

asphalt

Office

MW 1

Grass

Stone

MW 14

HL

Dispenser

Kiosk

Property Boundary

Stone

HL

FD

MW 19

Fence

MW 2

Property Boundary

RW 1

HL

FD

MW 16

Grass

Storm Drain

Concrete
Over New
Tanks

Electric

Sewer line

MW 7

Shed

Shed

Shed

Stone

Gas Line

Fence

Guard Rail

Fence

Guard Rail

Guard Rail

MW 11

Washington Place

MW 3

Fence

Shed

Fence

MW 8

MW 4

MW 9

Grass

Swale

Proposed CEA Boundary

Sewer line

MW 10

R

MW 12

Water line

MW 13

Storm Drain

Driveway

Water Line

MW 18

MW 20

KEY

MW 6 Monitoring Well & #
Electric line
Natural gas line
Sewer line
Water line
Storm drain line
Sewer manhole 24 inch
Storm drain
DOT Box
DOT Box
Utility Pole
R Residential house
Tree
FD Floor Drain: sealed
HL Hydraulic Lift: removed
Pump Island with dispenser
CEA Boundary Extent

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL

119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: CEA 2nd extent map

Date 8/2/19

Figure 3 CEA Boundary Extent

North Brunswick Gulf
1696 Georges Road RT 130
North Brunswick, New Jersey 08902

MW 5
MW 1
RW 1
MW 4
MW 9
MW 13
Washington Place
Medium sand
(106.89)
Sandy clay
(106.58)
WATER TABLE 5/21/19
Upper Vertical Boumdaryof CEA
(106.12)
(105.90)
Fine sand
(104.82)
(104.18)
Silty clay
Pea gravel
Silty clay
Clay
Medium sand
Clay & medium sand
TD 12.60'
Clay
Sand & clay
Silty clay
Silty clay
Medium sand
Pennsauken Formation
Plastic Clay at19.5 feet
TD 19.43'
TD 20.1'
Plastic Clay at18 feet
Clay
TD 18.82
TD 21.08
TD 19.05
HORIZONTAL EXTENT OF CEA
LOWER VERTICAL BOUNDARY OF CEA ~ 30 feet below grade
DEPTH (FT)
ELEVATION
0
5
10
15
20
25
30
110
105
100
95
90
85
80
0
20
40
60
80
100
120
140
160
180
200
220
240
DISTANCE (FT)

Horizontal Scale: 1 inch = 26 ft
Vertical Scale: 1 inch = 6.5 ft
Vertical Exageration = 4

ON-SITE ENVIRONMENTAL
119 SHEPHERDS WAY • COATESVILLE, PA 19320
PHONE: (610) 384-2719 • FAX (610) 384-2709

Drawing #:
File : XSECT
5 to 13

Date
8/1/2019

Figure 4 Cross Section

North Brunswick Gulf
1696 Georges RD RT 130
North Brunswick, New Jersey

Rt 130

MW 17

MW 6

MW 1

MW 19

Property Boundary

MW11

Sand & pea gravel

(106.78) Clayey sand

Sandy clay

Sand

TD 13.20'

(106.63)

TD 19.48'

(106.58)

Sand to 19.5 feet

Plastic Clay at19.5 feet

TD 20.10'

WATER TABLE 5/21/19

Upper Vertical Boundary of CEA

(106.91)

Fill

Sandy clay

Pennsauken Formation

Sand & clay

Clay

TD 20.40

(104.80)

Silty sandy clay

Clay

Sand & clay

Clay

TD 19.10'

DEPTH (FT)

ELEVATION

110 0 110

105 5 105

10 100

15 95

20 90

25 85

30 80

HORIZONTAL EXTENT OF CEA

LOWER VERTICAL BOUNDARY OF CEA ~ 30 feet below grade

0 30 60 90 120 150 180 210 240 270 300 330 360

DISTANCE (FT)

Horizontal Scale: 1 inch = 39 ft
Vertical Scale: 1 inch = 6.5 ft
Vertical Exageration = 6

ON-SITE ENVIRONMENTAL
119 SHEPHERDS WAY • COATESVILLE, PA 19320
PHONE: (610) 384-2719 • FAX (610) 384-2709

Drawing #:
File : XSECT 17 to 11

Date
8/1/2019

Figure 5 Cross Section

North Brunswick Gulf
1696 Georges RD RT 130
North Brunswick, New Jersey

Rt 130

Rt 130

Grass

Gravel

MW 17

(106.78)

Grass Medium

MW 15

(107.52)

107'

106.5'

106'

105.5'

105'

104.5'

MW 5

(106.89)

Grass

Guard Rail

Fence

Quick Out
Convience Store

Water line

MW 6

(106.63)

MW 1

(106.58)

Gate

asphalt

Office

Stone

HL

HL

FD

Dispenser

Kiosk

Property Boundary

MW 14

(103.71)

MW 19

(106.91)

MW 2

(105.94)

RW 1

(106.12)

MW 16

(106.58)

Grass

Concrete
Over New
Tanks

Electric

HL

FD

MW 7

(106.68)

Storm Drain

Shed

Shed

Shed

Stone

Fence

Sewer line

MW 11

(104.80)

Guard Rail

Fence

Guard Rail

Fence

MW 3

(104.49)

MW 4

(105.90)

MW 8

(104.91)

MW 9

(104.82)

Grass

Gas Line

Washington Place

Swale

MW 10

(104.25)

MW 12

(104.50)

104'

103.5'

103'

Water line

MW 13

(104.18)

Storm Drain

Driveway

Water Line

MW 18

(98.76)

Sewer line

MW 20

(97.36)

(97.36)

KEY

MW 6 Monitoring Well & #

Electric line

Natural gas line

Sewer line

Water line

Storm drain line

Sewer manhole 24 inch

Storm drain

DOT Box

DOT Box

Utility Pole

R Residential house

Tree

FD Floor Drain: sealed

HL Hydraulic Lift: removed

Pump Island with dispenser

(97.36) Elevation of water table (ft)

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #
WTG 5-21-19

Date
5/23/19

Figure 6 Water Table Gradient
5/21/19

North Brunswick Gulf
1696 Georges Road RT 130
North Brunswick, New Jersey 08902

Table 1: MW 1 - Summary of Volatile Organic Analysis (ug/l)

	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethene (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 1	5/22/2019	1,660	2,510	1,750	10,300	83.6	<120	<120	<33	<140	<11	<15	<12	<10	44.8 J	70.3	<0.0048	<41	42.9	<37	<18	<11	1,030		4,630 J	3.37	5/22/2019
	12/21/16	198	980	260	980	9	63	13 J	<0.5	6 J	<0.5	<0.5	<0.5	<0.5	25	54	<0.0094	<3	47	<3	<0.5	<0.5	248	62	1,560	8.27	12/21/16
	10/19-20/09	4,580	21,000	3,900	16,000	730	250	76	<2	27	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	3,920	6.4	10/19-20/09
	12/5-6/07	3,700	14,000	1,900	10,000	1,400	<1,000	<500	<20	<100	<20	<20	<10	<20	NA	NA	NA	<100	NA	<100	<10	<20	NA	NA	3,500	6.97	12/5-6/07
	01/11/05	1,250	5,160	1,010	6,550	752	540																		21,100		01/11/05
	03/09/02	5,300	9,100	2,500	9,100	7,200	1,300																		4,490	8.49	03/09/02
	02/27/02	7,800	10,000	2,300	10,000	17,000	2,000																			8.57	02/27/02
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 1 - Summary of Semi Volatile Organics (ug/l)

	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chryesne (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 1	5/22/2019	0.20 J	<0.14	<0.21	<0.21	0.0534	0.102	0.0402 J	<0.34	0.0446 J	0.58 J	5	<0.46	<0.23	<0.18	<0.36	<0.22	<0.23	<0.17	0.22 J	0.0534 J	NA	34	112	0.21 J	<0.22	1,407 J
	12/21/16	0	<0.010	<0.5	0.0312 J	0.15	0.48	0.13	0.31	0.18	<0.5	<2	<2	<0.5	0.33	0.053	<0.5	<2	0.30	0.19	0.22	21	18	32	0.28	0.40	750 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5		300	100		

Red number exceeds standard — Detection level above standard
DTW: Depth to water
NS: Not sampled
ND: Not detected
NA: Not analyzed
Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 2 -Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethene (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 2	5/22/2019	915	1,140	922	3,620	65.6	241	<60	<16	<69	<5.6	<7.3	<6	<5.1	44.2	66.3	<0.0053	<20	50.4	<19	<9	<5.5	376		1,140 J	5.32	5/22/2019
	12/19/16	1	4	29	145	1	<5	<50	<0.5	2	<0.5	2	<0.5	<0.5	39	17	<0.048	11	78	4	<0.5	<0.5	179	73	1,780 J	6.8	12/19/16
	10/19-20/09	530	1,780	890	3,980	96	820	<50	<2	38	<2	3.4	<1	<2	NA	NA	NA	11	NA	<10	<1	<2	NA	NA	2,480	5.33	10/19-20/09
	12/5-6/07	470	1,800	850	3,600	73	<1000	<500	<20	<100	<20	<20	<10	<20	NA	NA	NA	<100	NA	<100	<10	<20	NA	NA	4,750	5.58	12/5-6/07
	01/11/05	474	2,250	993	5,240	232	833						ND									ND			18,800		01/11/05
	03/09/02	520	920	130	500	670	910						11									4			450	9.35	03/09/02
	02/27/02	590	350	130	500	740	2,500																			8.79	02/27/02
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 2 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chryesne (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 2	5/22/2019	0.19 J	<0.13	<0.20	<0.21	<0.022	<0.043	<0.032	<0.33	<0.033	0.69 J	5	<0.45	<0.22	<0.17	<0.035	<0.22	<0.23	<0.17	<0.17	<0.017	NA	56 J	231	<0.17	<0.21	1,430 J
	12/19/16	0.053	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	0.011 J	0.011 J	<0.010	<2	4	4.9	<0.030	0.013 J	810 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/11/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/09/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/27/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3	0.3	700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard — Detection level above standard
DTW: Depth to water
NS: Not sampled
ND: Not detected
NA: Not analyzed
Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued) : MW 3 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethene (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 3	5/22/2019	<0.43	<0.53	<0.60	<0.59	65.4	64.3	<6.0	<1.6 e	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0054	>2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	5.19	5/22/2019
	10/3/2018	<0.43	<0.53	1.1	3.8	263	2,130	33	<6.9	<6.9	<0.56	<0.73			<0.78	<0.65	<0.0055	<2.0	<0.60	<1.9			<1.0		32 J	4.09	10/3/2018
	12/19/2016	<0.5	<0.5	<0.5	<0.5	280	2,100	30 J	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0094	<3	<3	<3	<0.5	<0.5	<1	<1	1,980 J	5.08	12/19/2016
	10/19-20/09	1.7	<2	<5	<10	2,480	6,300	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	17	2.77	10/19-20/09
	12/5-6/07	2.2	<5.0	<5.0	<10	2,800	<100	<50	<2	<10	<2	<2	<2	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	124	5.36	12/5-6/07
	1/11/2005	0.652	ND	ND	ND	116	721 D						ND									ND			8.69		1/11/2005
	3/9/2002	19	<2	<5	<2	1,000	360 J						<2									<2			83	9.46	3/9/2002
	2/27/2002	3	<1	<1	<1	710	590																			9.59	2/27/2002
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 3 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chryesne (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 3	5/22/2019	<0.18	<0.13	<0.70	<0.70	<0.043	<0.043	<0.093	<0.37	<0.037	<0.70	<1.6	<0.44	<0.5	<0.17	<0.014	<0.71	<0.77	<0.36	<0.16	<0.016	NA	<0.20	<0.20	<0.73	<0.17	0
	10/3/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	<0.1	<0.030	<0.010	100 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/11/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/9/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: Not detected
NA: Not analyzed
Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 4 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 4	5/21/2019	8.5	<0.53	<0.6	<0.59	12.3	7.6 J	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.53	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	16	47	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0096	<3	<1	<3	<0.5	<0.5	<1	<1	9	3.01	12/19/2016
	10/19-20/09	<1	<5	<2	<10	150	810	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	3.59	10/19-20/09
	12/5-6/07	<1.0	<5.0	<5.0	<10	129	<100	<50	<2	<10	<2	<2	<2	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	9.1	3.06	12/5-6/07
	1/12/2005	ND	ND	ND	ND	885	2190 D						ND									ND			3.060		1/12/2005
	3/9/2002	<1	<2	<5	<3	390	410						<2									<2			87	9.18	3/9/2002
	2/27/2002	<1	1	<1	<1	230	450																			12.81	2/27/2002
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 4 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 4	5/21/2019	<0.19	<0.13	<0.20	<0.20	<0.022	<0.042	<0.032	<0.33	<0.032	<0.21	<1.6	<0.44	<0.22	<0.17	<0.035	<0.21	<0.23	<0.17	<0.17	<0.037	NA	<0.20	<0.23	<0.17	<0.21	19 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	0.039 J	<0.030	<0.010	6.28
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/12/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/9/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1(continued): MW 5 -Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 5	5/22/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	2.1	<0.0054	<2.0	<0.60	<1.9	<0.9	<0.53	8	NA	332 J	3.39	5/22/2019
	12/19/16	83	26	73	47	3	7 J	7 J	<0.5	3 J	<0.5	<0.5	<0.5	<0.5	6	66	<0.0095	<3	23	<3	<0.5	<0.5	669	220	4,010 J	8.95	12/19/16
	10/19-20/09	120	17	190	340	<2	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	<1	<2	NA	<2	NA	NA	4,900	7.00	10/19-20/09
	12/5-6/07	23	160	350	840	<10	<200*	<100	<4	<20	<4	<4	<2	<4	NA	NA	NA	<20	NA	<20	<2	<4	NA	NA	4,110	7.41	12/5-6/07
	01/11/05	122	53.6	526	1,270	86.2	ND																		14,800		01/11/05
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 5 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 5	5/22/2019	<0.19	<0.13	<0.20	<0.21	<0.022	<0.043	<0.032	<0.33	<0.033	<0.21	<1.6	<0.45	<0.22	<0.17	<0.035	<0.22	<0.23	<0.17	<0.17	<0.037	NA	<0.21	<0.23	<0.17	<0.21	231 J
	12/19/16	0.49	0.3 J	<0.5	0.050 J	0.025 J	0.012 J	<0.010	0.013 J	<0.010	2	<5	<5	<0.5	0.021 J	<0.010	<0.5	<5	0.044 J	0.26	<0.010	101	124	39	0.17	0.046 J	2,360 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/11/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

: Detection level above standard

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 6 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 6	5/22/2019	46.2	69.5	149	662	26	62	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	30.8	54.7	<0.0051	<2.0	46.5	<1.9	<0.9	<0.53	561	NA	1,310 J	5.37	5/22/2019
	12/21/16	51	32	58	66	20	70	8 J	<0.5	3 J	<0.5	<0.3	<0.5	<0.5	9	16	<0.0095	6 J	13	<3	<0.5	<0.5	13	9	450 J	8.43	12/21/16
	10/20/09	1,800	2,300	870	3,300	470	340	<50	<2	21	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	3,500	6.54	10/20/09
	12/5/97	870	480	270	710	240	240*	<100	<4	<20	<4	<4	<2	<4	NA	NA	NA	<20	NA	<20	<2	<4	NA	NA	1,235	7.08	12/5/97
	01/11/05	385	1,210	313	4,110	483	ND																		12,000		01/11/05
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 6 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 6	5/22/2019	0.31 J	<0.13	<0.20	<0.21	<0.022	<0.043	<0.032	<0.33	<0.033	0.47 J	<1.6	<0.45	<0.22	<0.17	<0.035	<0.22	<0.23	<0.17	<0.17	<0.037	NA	29.4	84.2	<0.17	<0.21	1,518 J
	12/21/16	0.11	0.019 J	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	0.046 J	<0.010	9	4	11	<0.030	0.013 J	580 J
	10/20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/11/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

: Detection level above standard

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 7 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 7	5/22/2019	71.5	<0.53	3.7	4.8	2.7	6.7 J	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	1.1	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	14.5	NA	24.6 J	5.15	5/22/2019
	12/21/2016	2,200	810	1,500	5,200	190	430	150	<3	74	<3	<3	<3	<3	26	120	0.052	23 J	34	34	<3	<3	1800	530	4,700	8.07	12/21/2016
	10/19-20/09	4,400	6,500	3,400	21,000	300	300	150	<2	51	<2	<2	<1	<2	NA	NA	NA	26	NA	25	<1	<2	NA	NA	4,437	8.21	10/19-20/09
	12/5-6/07	5,200	5,900	3,500	21,000	390	<2,000*	<1600	<40	<200	<40	<40	<20	<40	NA	NA	NA	<200	NA	<200	<20	<40	NA	NA	7,950	6.81	12/5-6/07
	1/11/2005	5,330	12,600 D	3,790	25,100	254	ND																		62,600		1/11/2005
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 7 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 7	5/22/2019	<0.19	<0.13	<0.20	<0.21	<0.022	<0.043	<0.032	<0.33	<0.033	<0.21	<1.6	<0.45	<0.22	<0.17	<0.035	<0.22	<0.23	<0.17	<0.17	<0.017	NA	1.1	4.2	<0.17	<0.21	122.6 J
	12/21/2016	0.18	<0.010		0.090	0.012 J	0.023 J	<0.010	0.035 J	0.011 J	1	<2	<2	<2	0.97	0.026 J	<0.010	<0.5	<2	0.14	0.053	0.012 J	58	97	470	0.32	0.096	5.080 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/11/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																									300		

Red number exceeds standard
DTW: Deoth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Detection level above standard

Note: Samples collected in Mav 2019 via low flow technicues

Table 1 (continued): MW 8 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 8	5/21/2019	<0.43	<0.53	<0.60	<0.59	0.74 J	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	2.81	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	1.6 J	<5	<6	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	2.43	12/19/2016
	10/19-20/09	32	2.2	17	12	280	340	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	44.5	2.46	10/19-20/09
	12/5-6/07	170	16	150	330	370	<100	<60	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	472	3.32	12/5-6/07
	1/12/2005	170	64.9	315	2,100	75.5	89.9																		4,880		1/12/2005
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 8 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 8	5/21/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	<0.20	17 J	1.3 J	<0.22	<0.17	<0.034	<0.21	<0.22	<0.16	<0.16	<0.016	NA	<0.20	0.75 J	<0.17	<0.21	22 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	<0.030	<0.010	<0.010	12 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/12/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																									300		

Red exceeds standard
DTW: Deoth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in Mav 2019 via low flow technicues

Table 1 (continued): MW 9 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 9	5/21/2019	<0.43	<0.53	<0.60	<0.59	0.51 J	<5.8	<6.0	<1.6 a	<6.9	<0.56	0.73 J	<0.6	<0.51	<0.78	<0.65	<0.0051	<2.0	<0.60	<1.9	1.8	<0.53	<1.0	NA	0	1.00	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	2	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	0.79	12/19/2016
	10/19-20/09	<1	<2	<2	<2	<10	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	3.88	10/19-20/09
	12/5-6/07	<1.0	<5.0	<5.0	NA	37	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<5.0	2.46	12/5-6/07
	1/12/2005	NA	NA	NA	NA	36.7	61.5																		88.9		1/12/2005
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50			70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000	31						

MW 9 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 9	5/21/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.034	<0.21	<0.22	<0.16	<0.16	<0.016	NA	<0.20	<0.22	<0.17	<0.21	24 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	0.049 J	<0.030	<0.010	5 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/12/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																									300		

Red number exceeds standard
DTW: Deoth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in Mav 2019 via low flow technicues

Table 1 (continued): MW 10 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 10	5/21/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0051	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.82	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	1.37	12/19/2016
	10/19-20/09	<1	<2	<2	<10	<2	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	8.39	10/19-20/09
	12/5-6/07	<1.0	<5.0	<5.0	<10	<5.0	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<5.0	1.48	12/5-6/07
	1/11/2005	ND	ND	ND	ND	2.09	34.5																		45.8		1/11/2005
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 10 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 10	5/21/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.034	<0.21	<0.22	<0.16	<0.16	<0.036	NA	<0.20	<0.22	<0.17	<0.21	15.9 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	<0.030	<0.030	<0.010	0
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/11/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100																			5			100		
Groundwater Screening Levels for VI																								300			

No standard was exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 11 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 11	5/21/2019	<0.43	15.3	1.4	<0.59	<0.51	<5.8	<0.60	<1.6 a	<6.9	<0.56	<0.73	<0.60	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.40	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<5	18 J	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	7.26	12/19/2016
	10/19-20/09	<1	<2	<2	<10	<2	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	7.41	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 11 Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 11	5/21/2019	<0.19	<0.14	<0.21	<0.21	<0.023	<0.043	<0.033	<0.34	<0.033	<0.21	<1.7	<0.46	<0.23	<0.18	<0.036	<0.22	<0.23	<0.17	<0.17	<0.038	NA	<0.21	<0.23	<0.18	<0.22	4.2 J
	12/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

No standard was exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 12 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 12	5/21/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0054	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.80	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	1.26	12/19/2016
	10/19-20/09	<1	<2	10	15	<2	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	280	3.87	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 12 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 12	5/21/2019	0.35 J	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	0.70 J	<1.6	<0.44	<0.22	<0.17	<0.034	0.23 J	<0.22	<0.16	0.47 J	<0.036	NA	<0.20	<0.22	<0.17	<0.21	6.9 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	<0.030	<0.030	<0.010	46 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

No standard exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 13 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachlorethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 13	5/21/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0052	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.61	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	0.9 J	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	0.52	12/19/2016
	10/19-20/09	<1	<2	<2	<10	7.7	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	3.18	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50			70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5	2										100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 13 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 13	5/21/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.034	<0.21	<0.22	<0.16	<0.16	<0.036	NA	<0.20	<0.22	<0.17	<0.21	0
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	0.037 J	<0.030	<0.010	5 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100																			5			100		
Groundwater Screening Levels for VI																								300			

No standard exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 14 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachlorethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 14	5/22/2019	<0.43	<0.53	<0.60	<0.59	2.9	13.5	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	5.9 J	2.70	5/22/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	3	13 J	10 J	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0094	<3	<1	<3	<0.5	<0.5	<1	<1	0	7.16	12/19/2016
	10/19-20/09	<1	<2	<2	<10	<2	<100	<550	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	0.10	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 14 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 14	5/22/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.034	<0.21	<0.22	<0.16	<0.16	<0.036	NA	<0.20	<0.22	<0.17	<0.21	3.9 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	0.033 J	<0.030	<0.010	37 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100																			5			100		
Groundwater Screening Levels for VI																								300			

No standard exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 15 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachlorethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 15	5/22/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0054	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.95	5/22/2019
	12/20/2019	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	8.24	12/20/2019
	10/19-20/09	<1	<2	<2	<10	<2	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	6.49	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 15 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 15	5/22/2019	<0.19	<0.13	<0.20	<0.20	<0.022	<0.042	<0.032	<0.33	<0.032	<021	<1.6	<0.44	<0.22	<0.17	<0.035	<0.21	<0.23	<0.17	<0.17	<0.037	NA	<0.20	<0.23	<0.17	<0.21	0
	12/20/2019	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	0.045 J	<0.030	<0.010	21 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

No standard wass exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 16 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 16	5/21/2019	<0.43	<0.53	<0.63	<0.59	0.78 J	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0051	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.96	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	9	<5	<6	<0.5	<3	<0.5	<2	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	2.63	12/19/2016
	10/19-20/09	<1	<2	<2	<10	3.7	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	4.09	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5												100			
Groundwater Screening Levels for YI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 16 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 16	5/21/2019	<0.19	<0.14	<0.21	<0.21	<0.023	<0.043	<0.033	<0.34	<0.033	<0.21	<1.7	<0.46	<0.23	<0.18	<0.036	<0.22	<0.23	<0.17	<0.17	<0.038	NA	<0.21	<0.23	<0.18	<0.22	18 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	0.014 J	<0.010	<0.010	<0.1	<0.1	0.053 J	<0.030	<0.010	6 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100																			5			100		
Groundwater Screening Levels for YI																								300			

No standard was exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 17 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 17	5/22/2019	<0.43	<0.53	<0.63	<0.59	<0.51	<5.8	<6.0	<1.6 f	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0054	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	5.01	5/22/2019
	10/3/2018	<0.43	<0.53	<0.63	<0.59	<0.51	<5.8	<6	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	7.04	10/3/2018
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500	100/500	
Interim Groundwater Criteria												5												100			
Groundwater Screening Levels for YI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 17 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 17	5/22/2019	<0.19	<0.14	<0.21	<0.21	0.0281 J	<0.043	<0.033	<0.34	<0.033	<0.21	<1.7	<0.46	<0.23	<0.18	<0.036	<0.22	<0.23	<0.17	<0.17	<0.038	NA	<0.21	<0.23	<0.18	<0.22	0
	10/3/2018	<0.18	<0.13	<0.20	<0.20	<0.022	0.0419 J	<0.032	<0.32	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.034	<0.21	<0.22 c	<0.16	<0.16	<0.036	NA	<0.20	<0.22	<0.17	<0.21	
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for YI																								300			

No standard was exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

a: Associated CCV and BS outside of control limits high, sample was ND.
c: Associated CCV outside control limits high, sample was ND
f: Associated CCV outside of control limits low.

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 18 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 18	5/21/2019	<0.43	<0.53	0.93 J	<0.59	<0.51	<5.8	<6.0	<1.6 f	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0051	<2.0	<0.60	<1.9	<0.9	<0.53	1.4 J	NA	28 J	4.2	5/21/2019
	11/15/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.09	11/15/2018	
	10/3/2018	<0.43	<0.53	<0.60	<0.59	<0.51	6.3 J	<6.0	<1.6 b	<6.9		<0.73	<0.6	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	1.1 J	NA	6.1 J	4.82	10/3/2018
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500	100/500	
Interim Groundwater Criteria												5												100			
Groundwater Screening Levels for YI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 18 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 18	5/21/2019	5.5	0.48 J	<0.21	0.76 J	0.0348 J	<0.043	<0.033	<0.34	<0.033	1.5	<1.7	<0.46	4.3	<0.18	<0.036	2.8 J	1.5	0.82 J	3.9	<0.038	NA	5.8	23.1	4.3	0.45 J	21.2 J
	11/15/2018	3.4	0.64	<0.20	1.3	0.135	<0.041	<0.032	<0.32	<0.032	1.2	<1.6	<0.44	4.8	<0.17	<0.034	2.6	<0.22	1.4	4	<0.036	4	6.5	25.8	7	0.91	174.1 J
	11/15/18 Filtered	3.2	0.55	<0.20	<0.20	<0.022	<0.042	<0.032	<0.33	<0.032	0.48	<1.6	<0.44	3.3	<0.17	<0.035	0.95	<0.22 a	<0.16	2.6	<0.037	3.8	4.2	20.8	1.1	<0.21	58
	10/3/2018	4.1	0.73 J	0.43 J	1.4	0.108	<0.041	<0.032	<0.32	<0.032	1.4	<1.6	<0.44	5.7	<0.17	<0.034	2.6 J	<0.22 c	1.6	4.4	<0.036	NA	7.1	28.6	6.9	1.2	51.2 J
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for YI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

a: Associated CCV and BS outside of control limits high, sample was ND.
b:Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
c: Associated CV outside control limits high, sample was ND
f: Associated CCV outside of control limits low.

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 19 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 19	5/22/2019	1.530	339	2.800	10.800	<10	<120	<120	<33 f	<140	41.5	<15	<12	17.9 J	98.0 J	148	<0.0053	<41	110	<37	<18	<11	2.450		6.540 J	2.81	5/22/2019
	10/3/2018	868	1.960	1.790	8.790	<10	123 J	144 J	<33 a	<140	<11	<15	<12	65.9	103	156	<0.0053	<41	129	<37	<18	<11	2.860		9.140	5.96	10/3/2018
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500	100/500	
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 19 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 19	5/22/2019	0.35 J	<0.13	<0.20	<0.21	<0.022	<0.043	<0.032	<0.33	<0.033	1.4	<1.6	<0.45	3	<0.17	<0.035	<0.22	<0.23	<0.17	0.39 J	<0.037	NA	92.3	432	0.22 J	<0.21	3.890 J
	10/3/2018	0.36 J	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	1.7	<1.6	<0.44 c	0.47 J	<0.17	<0.034 c	<0.21	<0.22 c	<0.16	0.25 J	<0.036	NA	133	327	0.25 J	<0.21	3,717.7 J
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

a: Associated CCV and BS outside of control limits high, sample was ND.
c: Associated CCV outside control limits high, sample was ND
d: Associated CCV outside of control limits high
e: Associated CCV outside of control limits high, sample was ND.
f: Associated CCV outside of control limits low.

: Detection level above standard

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 20 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 20	5/21/2019	0.68	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 f	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0052	<2.0		<1.9	<0.9	<0.53	<1.0	NA	7.2 J	3.67	5/21/2019
	1/18/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0052	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	3.2	1/18/2019
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500	100/500	
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 20 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 20	5/21/2019	2.7	<0.14	<0.21	<0.21	<0.023	<0.043	<0.033	<0.34	<0.033	0.11 J	<1.7	<0.46	0.55 J	<0.18	<0.036	0.49 J	<0.23	<0.17	0.90 J	<0.038	NA	0.98 J	7.8	0.25 J	<0.22	5.2 J
	1/18/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.042	<0.032	<0.33	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.035	<0.21	<0.22	<0.16	0.20 J	<0.037	NA	<0.20	0.25	<0.17	<0.21	
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Shaded number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

a: Associated CCV and BS outside of control limits high, sample was ND.
c: Associated CCV outside control limits high, sample was ND
d: Associated CCV outside of control limits high
e: Associated CCV outside of control limits high, sample was ND.
f: Associated CCV outside of control limits low.

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): RW 1 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
RW 1	5/22/2019	510	940	295	1,490	58.8	111	<30	<8.2 a	<34	<2.8	<3.6	<3	<2.5	21.8 J	38.8	<0.0055	<10	10.9 J	<9.3	<4.5	<2.7	178		1,015 J	3.00	5/22/2019
	10/3/2018	<0.43	<0.53	<0.60	1.2	0.89 J	11	<6.0		<6.9		<0.73			<0.78	<0.65	<0.0055	<2.0	<0.60	<1.9			<1.0		0	5.43	10/3/2018
	12/21/2016	<0.5	<0.5	<0.5	<0.5	1	10 J	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	7.23	12/21/2016
	10/19-20/09	9	<2	<2	<5	<10	6.5	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	29	5.33	10/19-20/09
	12/5/2007	<1	<5	<5	<5	<10	7.5	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<5	6.04	12/5/2007
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500	100/500	100/500
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

RW 1 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
RW 1	5/22/2019	<0.19	<0.14	<0.21	<0.21	<0.023	<0.043	<0.033	<0.34	<0.033	<021	<1.7	<0.46	<0.23	<0.18	<0.036	<0.22	<0.23	<0.17	<0.17	<0.038	NA	5.9	58.3	<0.18	<0.22	568.2 J
	10/3/2018																										
	12/21/2016	<0.010	<0.010	<0.5	<0.010	<0.010	0.028 J	0.011 J	0.024 J	0.015 J	<0.5	<2	<2	<0.5	0.020 J	<0.010	<0.5	<2	0.015 J	<0.010	0.016 J	<0.1	<0.1	0.082	<0.030	0.017 J	17 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

: Detection level above standard

Note: Samples collected in May 2019 via low flow techniques

MW 1 Groundwater Monitoring Data Table and Hydrographs with Trend Line

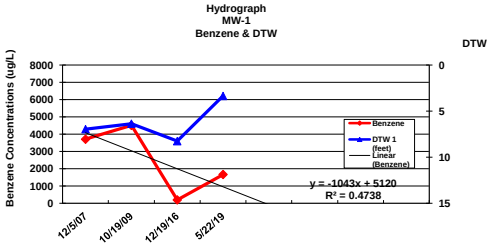
ug/L

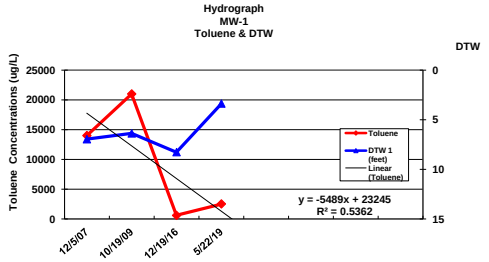
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	TBA
MW-1	2/27/02	8.57	7800	18000	3300	10000	17000	3000
	3/9/02	8.48	5300	9100	2500	9100	7200	1300
	1/11/05		1290	5160	1030	6590	753	540
	12/5/07	6.97	3700	14000	1900	10000	1600	<1000
	10/19/09	6.38	4500	21000	2900	16000	730	290
	12/19/16	8.27	190	580	260	980	9	63
	5/22/19	3.37	1660	2510	1750	10300	83.6	<120
Groundwater Quality Standard			1	600	700	1,000	70	100

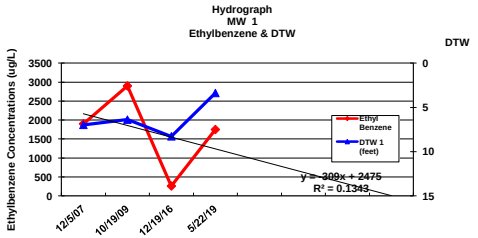
[1] DTW depth to groundwater

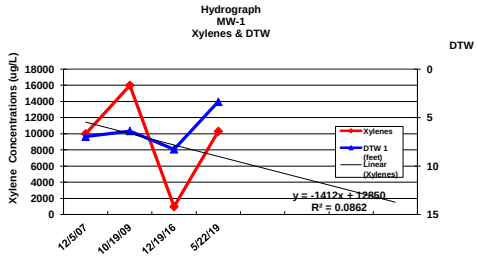
NO remedial activities were conducted after July 2003

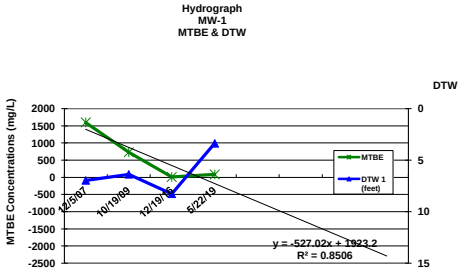
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

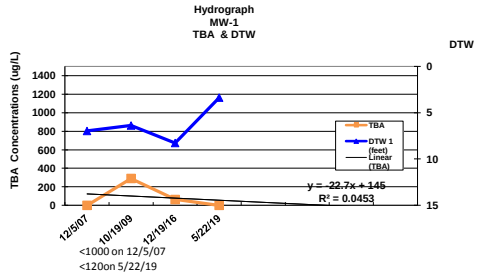












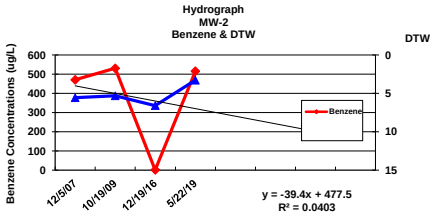
MW 2 Groundwater Monitoring Data Table and Hydrographs with Trend Line

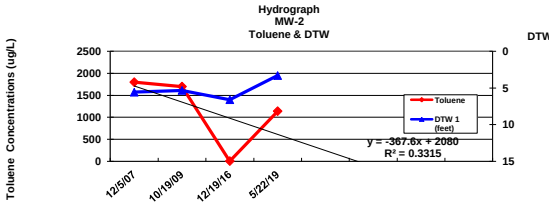
ug/L

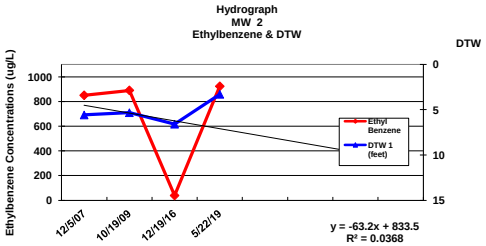
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	TBA
MW-2	2/27/02	8.79	390	350	130	500	740	2500
	3/9/02	8.48	220	520	130	500	670	910
	1/11/05		474	2320	992	5240	223	833
	12/5/07	5.58	470	1800	850	3600	71	<1000
	10/19/09	5.33	530	1700	890	3900	96	820
	12/19/16	6.60	1	4	39	145	1	<5
	5/22/19	3.30	515	1140	923	3620	65.6	241.0
Groundwater Quality Standard			1	600	700	1,000	70	100

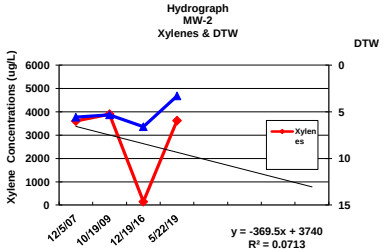
[1] DTW depth to groundwater

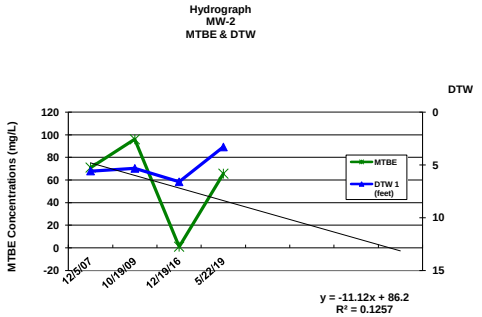
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

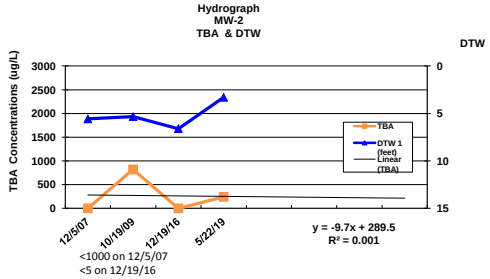












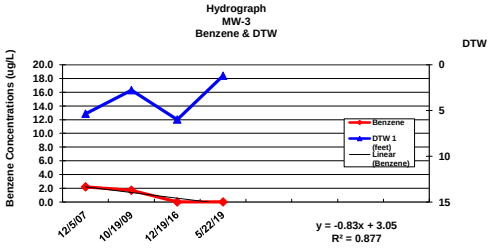
<1000 on 12/5/07
<5 on 12/19/16

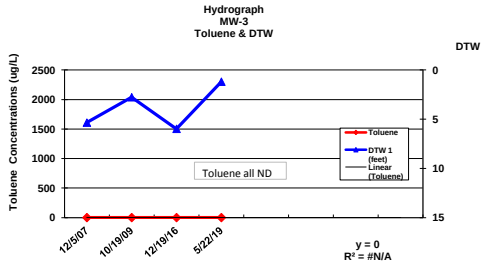
MW 3 Groundwater Monitoring Data Table and Hydrographs with Trend Lines
ug/L

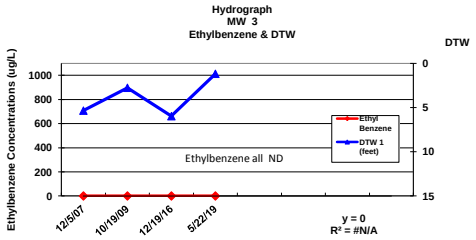
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	TBA
MW-3	2/27/02	9.59	3	<1	<1	<1	710	290
	3/9/02	9.53	19	<2	<5	<2	3000	360
	1/11/05		0.659	ND	ND	ND	116	732
	12/5/07	5.35	2.2	<5	<5	<10	2800	<100
	10/19/09	2.77	1.7	<2	<2	<10	2000	6300
	12/19/16	5.98	<0.5	<0.5	<0.5	<0.5	200	2100
	5/22/19	1.19	<0.43	<0.53	<0.6	<0.59	65.4	64.3
Groundwater Quality Standard			1	600	700	1,000	70	100

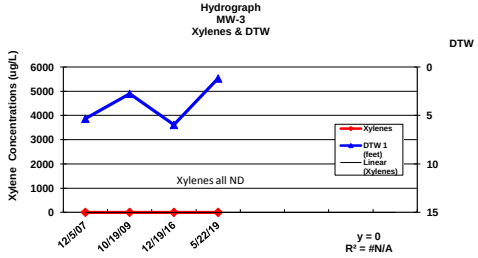
[1] DTW depth to groundwater

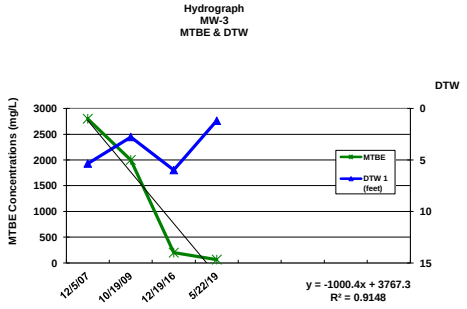
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

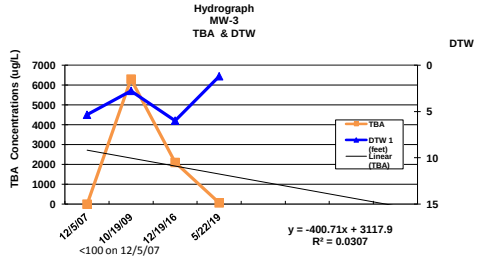












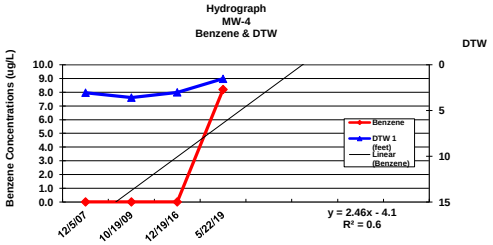
MW 4 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

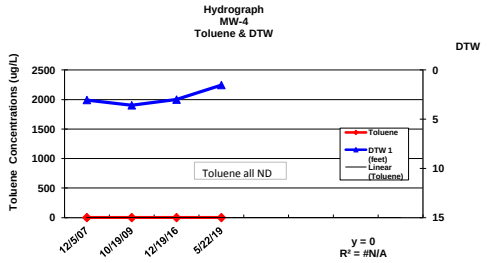
ug/L

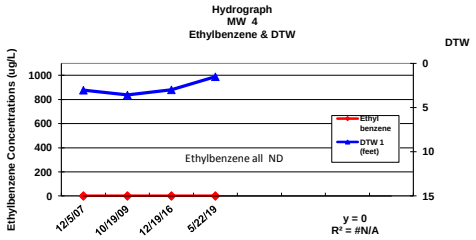
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
MW-4	2/27/02	9.59	<1	1	<5	<1	230	450
	3/9/02	9.18	<1	<2	ND	<3	390	410
	1/11/05		ND	ND	<5	ND	865	2190
	12/5/07	3.05	<1	<5	<2	<10	120	<100
	10/19/09	3.59	<1	<2	<10	<10	150	810
	12/19/16	3.01	<0.5	<0.5	<0.5	<0.5	16	47
	5/22/19	1.53	8.2	<0.53	<0.6	<0.59	12.3	7.0
Groundwater Quality Standard			1	600	700	1,000	70	100

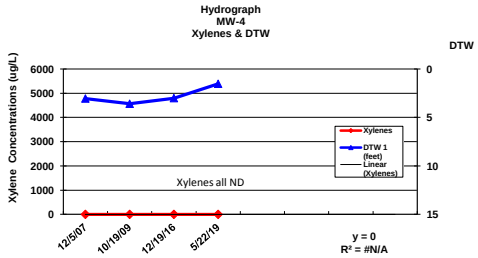
[1] DTW depth to groundwater

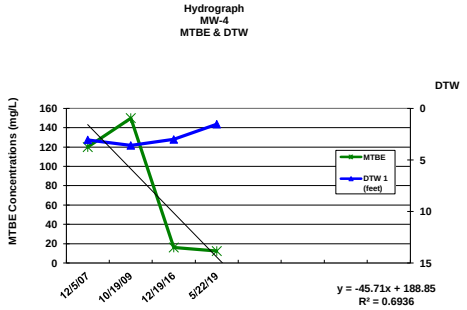
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

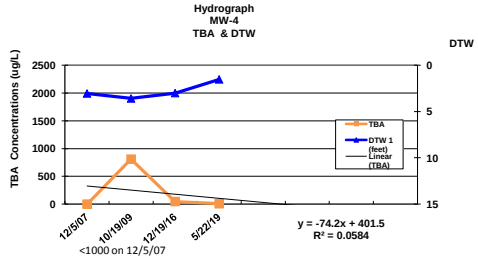












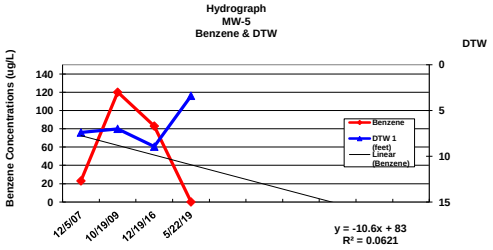
MW 5 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

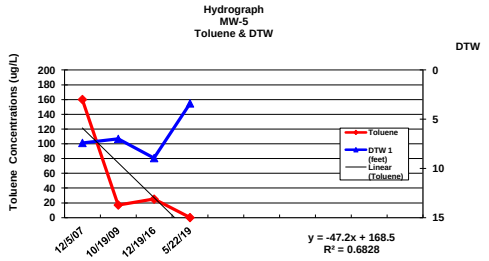
ug/L

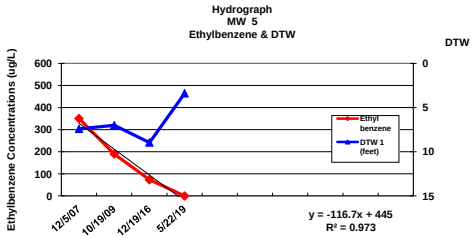
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
MW-5	1/11/05		122	53.6	526	1270	86.2	ND
	12/5/07	7.41	23	160	350	840	<10	<200
	10/19/09	7.00	120	17	190	340	<2	<100
	12/19/16	8.95	83.0	25	73	47	2	7
	5/22/19	3.39	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8
Groundwater Quality Standard			1	600	700	1,000	70	100

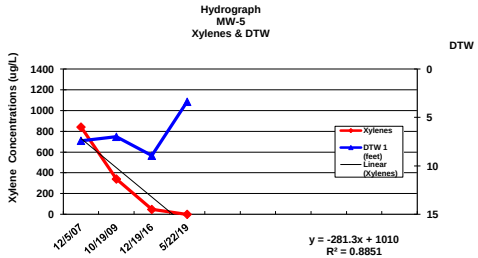
[1] DTW depth to groundwater

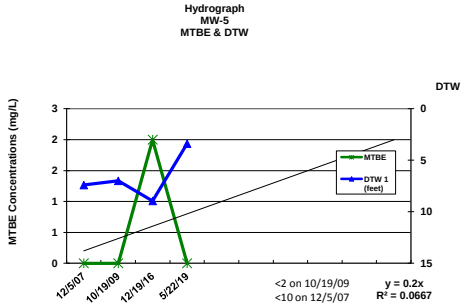
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.



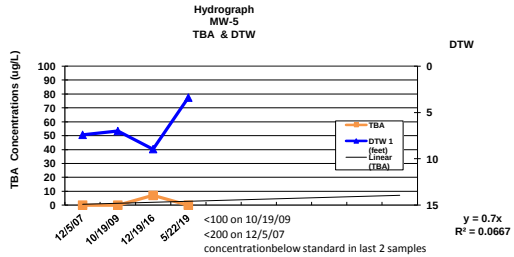








<2 on 10/19/09
<10 on 12/5/07
Concentrations below standard in last 2 samples



<100 on 10/19/09
<200 on 12/5/07
concentrationbelow standard in last 2 samples

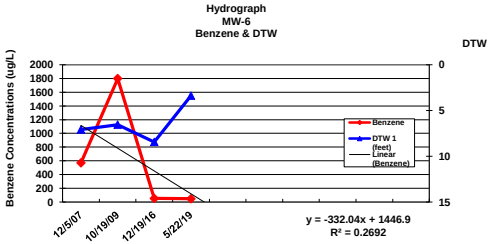
MW 6 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

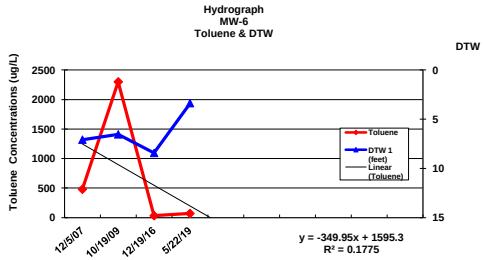
ug/L

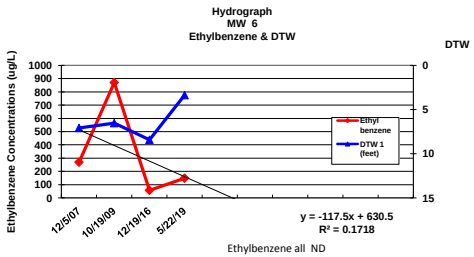
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
MW-6	1/11/05		385	1210	313	4110	483.0	ND
	12/5/07	7.08	570	480	270	710	240	<200
	10/19/09	6.54	1800	2300	870	3300	470	340
	12/19/16	8.43	51.0	32	58	66	20	70
	5/22/19	3.37	46.2	69.5	149	662	26	62
Groundwater Quality Standard			1	600	700	1,000	70	100

[1] DTW depth to groundwater

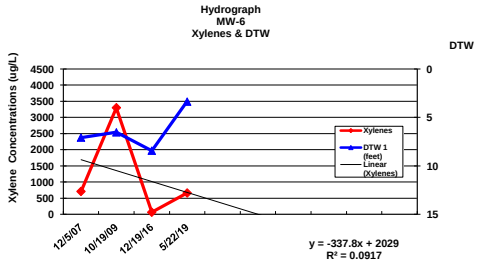
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

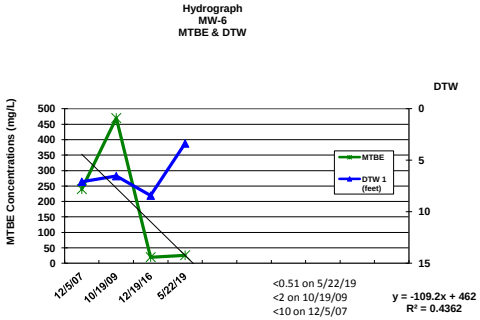


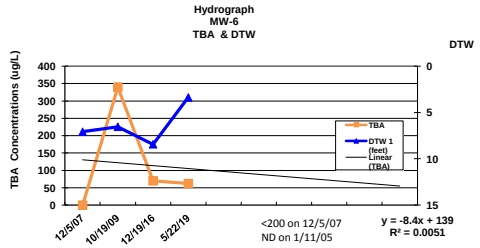




Ethylbenzene all ND







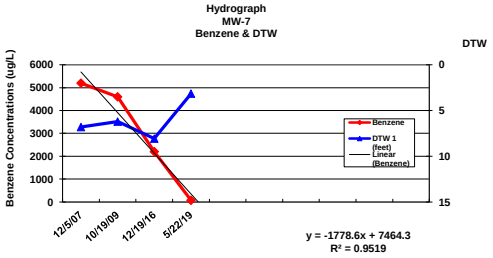
MW 7 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

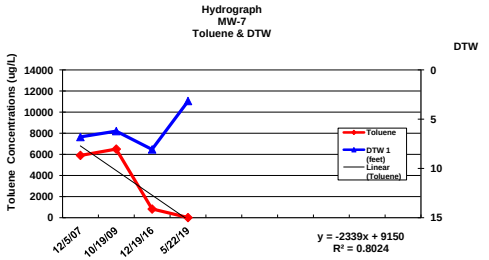
ug/L

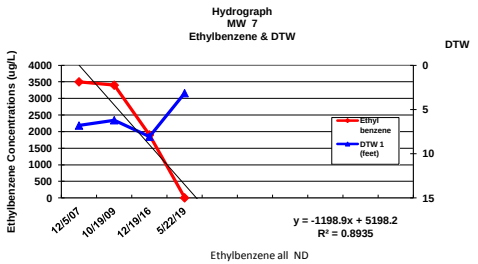
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
MW-7	1/11/05		5330	12600	3790	25100	254	ND
	12/5/07	6.81	5200	5900	3500	21000	390	<2000
	10/19/09	6.21	4600	6500	3400	21000	390	380
	12/19/16	8.07	2200	810	1900	5200	190	430
	5/22/19	3.15	71.5	<0.53	3.7	5	3	6.7
Groundwater Quality Standard			1	600	700	1,000	70	100

[1] DTW depth to groundwater

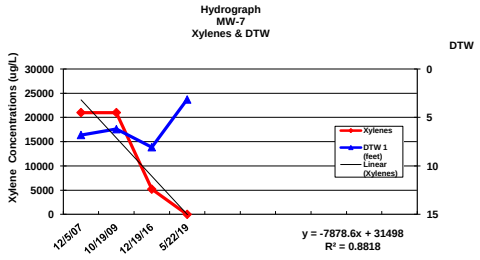
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.



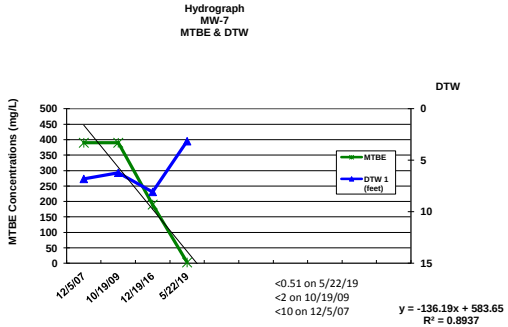


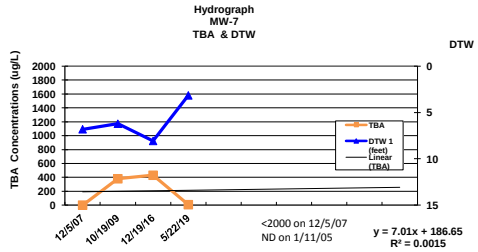


Ethylbenzene all ND



Xylenes all ND





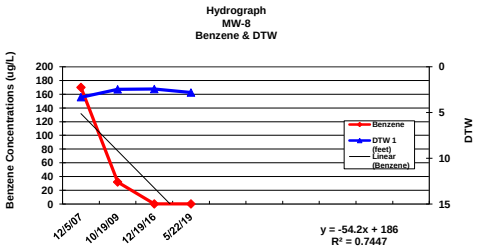
MW 8 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

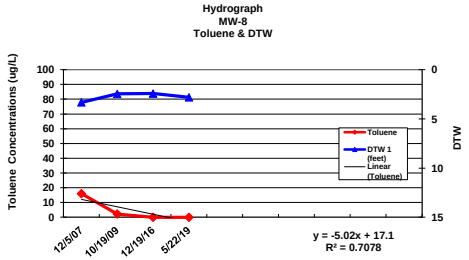
ug/L

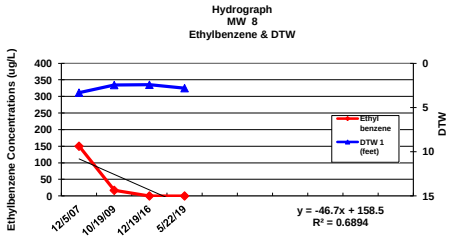
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
MW-8	1/11/05		170	64.9	315	2190	75.5	89.9
	12/5/07	3.32	170	16	150	330	370	<100
	10/19/09	2.46	32	2	17	12	280	340
	12/19/16	2.43	<0.5	<0.5	<0.5	2	1	<5
	5/22/19	2.81	<0.43	<0.53	<0.60	<0.59	0.75	<5.8
Groundwater Quality Standard			1	600	700	1,000	70	100

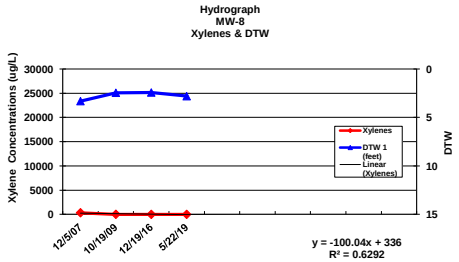
[1] DTW depth to groundwater

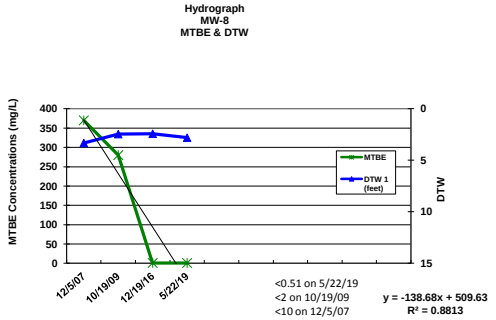
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

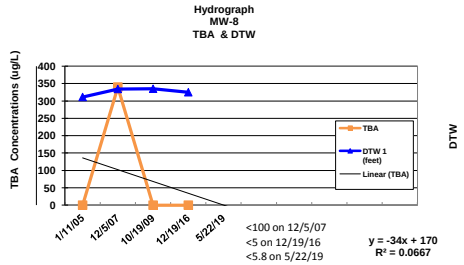










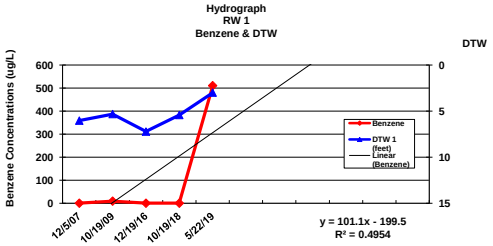


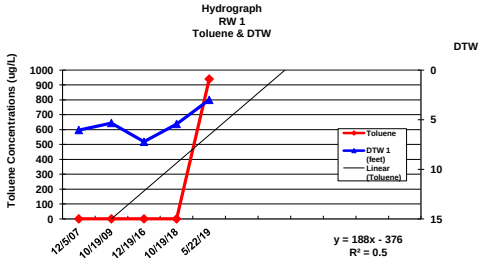
RW 1 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

ug/L

Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
RW 1	12/5/07	6.04	<1	<5	<5	<10	7.5	<100
	10/19/09	5.33	9	<2	<2	<10	6.5	<100
	12/19/16	7.23	<0.5	<0.5	<0.5	<0.5	1	10
	10/19/18	5.43	<0.43	<0.53	<0.60	1.2	0.89	11
	5/22/19	3.00	510	940	295	1490	58.80	111
Groundwater Quality Standard			1	600	700	1,000	70	100

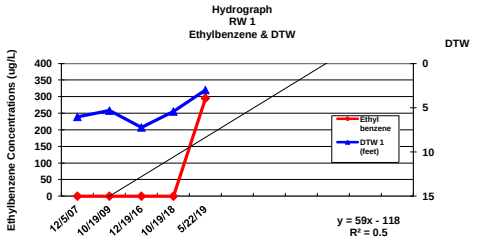
[1] DTW depth to groundwater

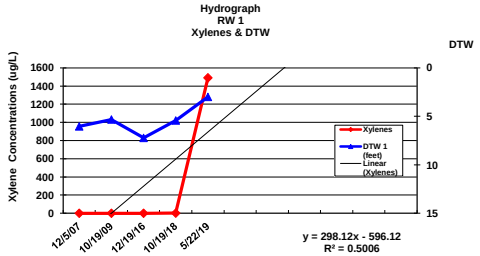


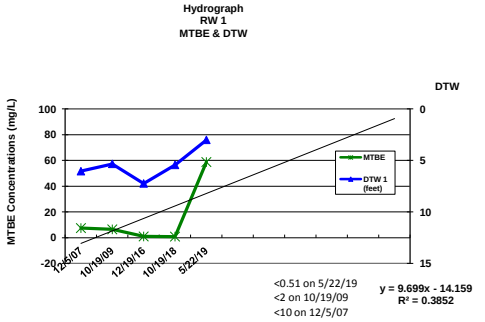


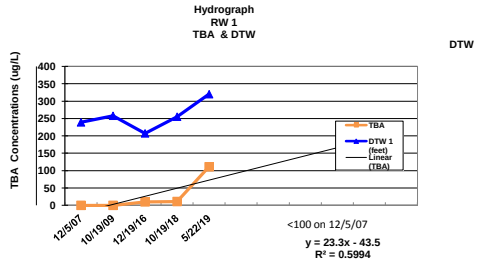
NO remedial activities were conducted after July 2003

Only summary table of the analytical data for the samples collected on 12/5/07 by the Whitman Co. were available for review.









State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 1

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	3,700.00	14,000.00	1,900.00	10,000.00	1,600.00	1000.00
2	19-Oct-09	4,500.00	21,000.00	2,900.00	16,000.00	730.00	290.00
3	21-Dec-16	190.00	580.00	260.00	980.00	9.00	63.00
4	22-May-19	1,660.00	2,510.00	1,750.00	10,300.00	83.60	100.00
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		-2	-2	-2	0	-4	-4
Number of Rounds n =		4	4	4	4	4	4
Average =		2512.50	9522.50	1702.50	9320.00	605.65	363.25
Standard Deviation =		1956.28	9676.85	1088.74	6207.54	737.73	435.99
Coefficient of Variation (CV) =		0.78	1.02	0.64	0.67	1.22	1.20
Trend ≥ 80% Confidence Level		No Trend	No Trend	No Trend	No Trend	**DECREASING**	**DECREASING**
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		**CV <= 1 STABLE**	**CV > 1 NON-STABLE**	**CV <= 1 STABLE**	**CV <= 1 STABLE**	NA	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 2

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	21/5/07	470.00	1,800.00	850.00	3,600.00	71.00	1000.00
2	19-Oct-09	530.00	1,700.00	890.00	3,900.00	96.00	820.00
3	21-Dec-16	1.00	4.00	39.00	145.00	1.00	5.00
4	22-May-19	515.00	1,140.00	923.00	3,620.00	65.60	241.00
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		0	-4	2	0	-2	-4
Number of Rounds n =		4	4	4	4	4	4
Average =		379.00	1161.00	675.50	2816.25	58.40	516.50
Standard Deviation =		253.29	824.20	425.38	1786.09	40.49	470.25
Coefficient of Variation (CV) =		0.67	0.71	0.63	0.63	0.69	0.91
Trend ≥ 80% Confidence Level		No Trend	**DECREASING**	No Trend	No Trend	No Trend	**DECREASING**
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		**CV <= 1 STABLE**	NA	**CV <= 1 STABLE**	**CV <= 1 STABLE**	**CV <= 1 STABLE**	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 3

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	2.20	2.50	2.50	5.00	2,800.00	50.00
2	19-Oct-09	1.70	1.00	1.00	5.00	2,000.00	6300.00
3	21-Dec-16	0.25	0.27	0.25	3.80	200.00	2100.00
4	21-May-19	0.22	0.27	0.30	0.30	65.40	64.30
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		-6	-5	-4	-5	-6	0
Number of Rounds n =		4	4	4	4	4	4
Average =		1.09	1.01	1.01	3.52	1266.35	2128.58
Standard Deviation =		1.01	1.05	1.05	2.23	1350.27	2942.98
Coefficient of Variation (CV) =		0.93	1.05	1.04	0.63	1.07	1.38
Trend ≥ 80% Confidence Level		DECREASING	DECREASING	DECREASING	DECREASING	DECREASING	No Trend
Trend ≥ 90% Confidence Level		DECREASING	No Trend	No Trend	No Trend	DECREASING	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		NA	NA	NA	NA	NA	CV > 1 NON-STABLE
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 4

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	0.50	2.50	2.50	5.00	120.00	50.00
2	19-Oct-09	0.50	1.00	1.00	5.00	150.00	810.00
3	21-Dec-16	0.50	0.25	0.25	0.25	16.00	47.00
4	22-May-19	8.20	0.27	0.30	0.30	12.30	7.00
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		3	-4	-4	-3	-4	-4
Number of Rounds n =		4	4	4	4	4	4
Average =		2.43	1.00	1.01	2.64	74.58	228.50
Standard Deviation =		3.85	1.06	1.05	2.73	70.86	388.16
Coefficient of Variation (CV) =		1.59	1.05	1.04	1.04	0.95	1.70
Trend ≥ 80% Confidence Level		No Trend	DECREASING	DECREASING	No Trend	DECREASING	DECREASING
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		CV > 1 NON-STABLE	NA	NA	CV > 1 NON-STABLE	NA	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 5

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	23.00	160.00	350.00	840.00	5.00	100.00
2	19-Oct-09	120.00	17.00	190.00	340.00	1.00	50.00
3	19-Dec-16	83.00	23.00	73.00	47.00	2.00	7.00
4	22-May-19	0.22	0.27	0.30	0.30	0.26	2.90
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic	S =	-2	-4	-6	-6	-4	-6
Number of Rounds	n =	4	4	4	4	4	4
Average =		56.55	50.07	153.33	306.82	2.06	39.98
Standard Deviation =		54.85	73.92	152.64	385.94	2.08	45.33
Coefficient of Variation (CV) =		0.97	1.48	1.00	1.26	1.01	1.13
Trend ≥ 80% Confidence Level		No Trend	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**
Trend ≥ 90% Confidence Level		No Trend	No Trend	**DECREASING**	**DECREASING**	No Trend	**DECREASING**
Stability Test, If No Trend Exists at 80% Confidence Level		**CV <= 1 STABLE**	NA	NA	NA	NA	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 6

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	570.00	480.00	270.00	710.00	240.00	200.00
2	19-Oct-09	1,800.00	2,300.00	870.00	3,300.00	470.00	340.00
3	19-Dec-16	51.00	32.00	58.00	66.00	20.00	70.00
4	22-May-19	46.20	69.50	149.00	662.00	26.00	62.00
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		-4	-2	-2	-2	-2	-4
Number of Rounds n =		4	4	4	4	4	4
Average =		616.80	720.38	336.75	1184.50	189.00	168.00
Standard Deviation =		826.21	1072.46	365.95	1440.43	213.46	130.96
Coefficient of Variation (CV) =		1.34	1.49	1.09	1.22	1.13	0.78
Trend ≥ 80% Confidence Level		**DECREASING**	No Trend	No Trend	No Trend	No Trend	**DECREASING**
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		NA	**CV > 1 NON-STABLE**	**CV > 1 NON-STABLE**	**CV > 1 NON-STABLE**	**CV > 1 NON-STABLE**	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 7

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	5,200.00	5,900.00	3,500.00	21,000.00	390.00	2000.00
2	19-Oct-09	4,600.00	6,500.00	3,400.00	21,000.00	390.00	380.00
3	19-Dec-16	2,200.00	810.00	1,900.00	5,200.00	190.00	430.00
4	22-May-19	71.50	0.27	3.70	4.80	2.70	6.70
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		-6	-4	-6	-5	-5	-4
Number of Rounds n =		4	4	4	4	4	4
Average =		3017.88	3302.57	2200.93	11801.20	243.18	704.18
Standard Deviation =		2353.35	3370.87	1637.45	10831.54	185.98	884.29
Coefficient of Variation (CV) =		0.78	1.02	0.74	0.92	0.76	1.26
Trend ≥ 80% Confidence Level		**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**
Trend ≥ 90% Confidence Level		**DECREASING**	No Trend	**DECREASING**	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		NA	NA	NA	NA	NA	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 8

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	170.00	16.00	150.00	330.00	370.00	50.00
2	19-Oct-09	32.00	2.20	17.00	12.00	280.00	340.00
3	19-Dec-16	0.25	0.25	0.25	1.60	1.00	2.50
4	22-May-19	0.22	0.27	0.30	0.30	0.75	2.90
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		-6	-4	-4	-6	-6	-2
Number of Rounds n =		4	4	4	4	4	4
Average =		50.62	4.68	41.89	85.97	162.94	98.85
Standard Deviation =		80.99	7.60	72.50	162.77	190.71	162.31
Coefficient of Variation (CV) =		1.60	1.62	1.73	1.89	1.17	1.64
Trend ≥ 80% Confidence Level		**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	No Trend
Trend ≥ 90% Confidence Level		**DECREASING**	No Trend	No Trend	**DECREASING**	**DECREASING**	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		NA	NA	NA	NA	NA	**CV > 1 NON-STABLE**
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	RW 1

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	0.50	2.50	2.50	5.00	7.50	50.00
2	19-Oct-09	9.00	1.00	1.00	5.00	6.50	50.00
3	19-Dec-16	0.25	0.25	0.25	0.25	1.00	0.25
4	22-May-19	510.00	940.00	295.00	1,490.00	58.80	111.00
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		2	0	0	1	0	1
Number of Rounds n =		4	4	4	4	4	4
Average =		129.94	235.94	74.69	375.06	18.45	52.81
Standard Deviation =		253.41	469.38	146.88	743.30	27.05	45.33
Coefficient of Variation (CV) =		1.95	1.99	1.97	1.98	1.47	0.86
Trend ≥ 80% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		CV > 1 NON-STABLE	CV > 1 NON-STABLE	CV > 1 NON-STABLE	CV > 1 NON-STABLE	CV > 1 NON-STABLE	CV <= 1 STABLE
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	25-Jul-19	Checked By =	FJ
Concentration Units =	ug/L				

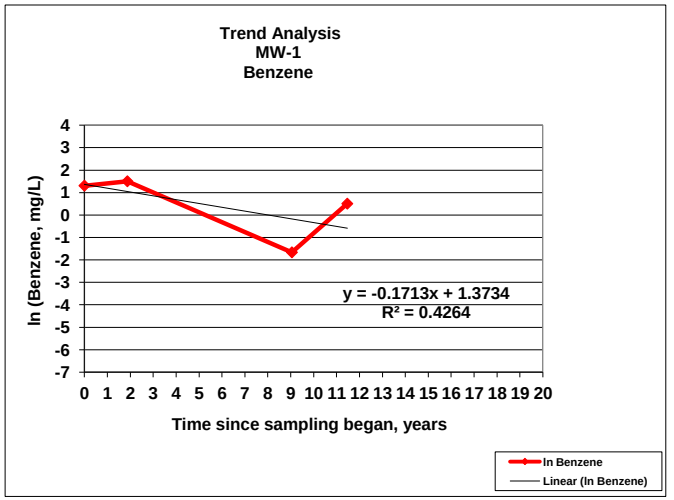
First-Order Decay Rate Calculation

Facility Name: North Brunswick Gulf **Facility ID:** _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ **Date:** 7/10/19

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): Source well - MW 1

Sampling Date	Depth to Ground Water feet	Benzene MW-1 mg/L	Benzene MW-1 ug/L	ln Benzene MW-1 mg/L	Elapsed time since 12/5/07 years
12/5/07		3.700	3700	1.308	0.00
10/19/09		4.500	4500	1.504	1.87
12/21/16		0.190	190	-1.661	9.05
5/22/19		1.660	1660	0.507	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	



R 0.6529

Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-1, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	3.7		
Enter k_{point}	⇨	0.1713		
Time to reach cleanup level			48.0	years
36.53 more years to reach standard from 5/22/19				

First-Order Decay Rate Calculation

Facility Name: **North Brunsick Gulf**

Facility ID: _____

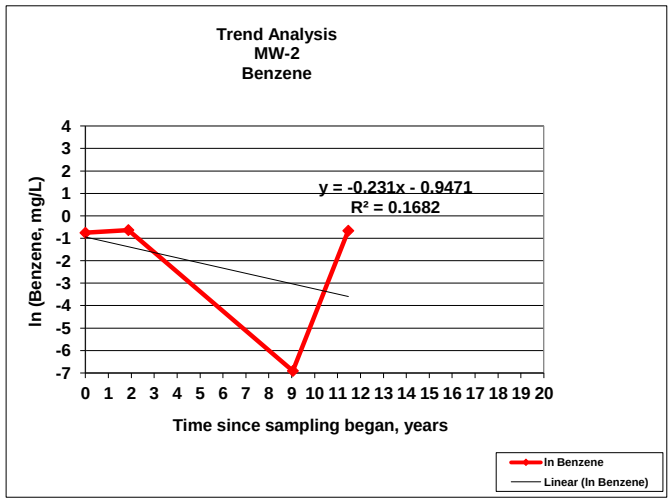
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 2 - side gradient downgradient

Sampling Date	Depth to Ground Water feet	Benzene MW-2 mg/L	Benzene MW-2 ug/L	ln Benzene MW-2 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.470	470	-0.755	0.00
10/19/09		0.530	530	-0.635	1.87
12/21/16		0.001	1	-6.908	9.05
5/22/19		0.515	515	-0.664	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-2, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	0.47		
Enter k_{point}	⇨	0.231		
Time to reach cleanup level			26.6	years

15.13 more years to reach standard from 5/22/19

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

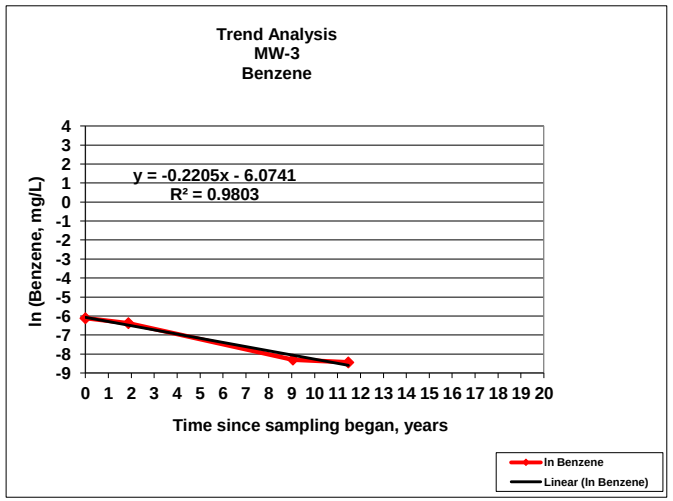
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 3 - downgradient

Sampling Date	Depth to Ground Water feet	Benzene MW-3 mg/L	Benzene MW-3 ug/L	ln Benzene MW-3 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.0022	2.2	-6.119	0.00
10/19/09		0.0017	1.7	-6.377	1.87
12/21/16		0.00025	<0.5	-8.294	9.05
5/22/19		0.000215	<0.43	-8.445	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	
For non-detects used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-3, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	0.0022		
Enter k_{point}	⇨	0.2205		
Time to reach cleanup level			3.6	years

Groundwater reached the cleanup level in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

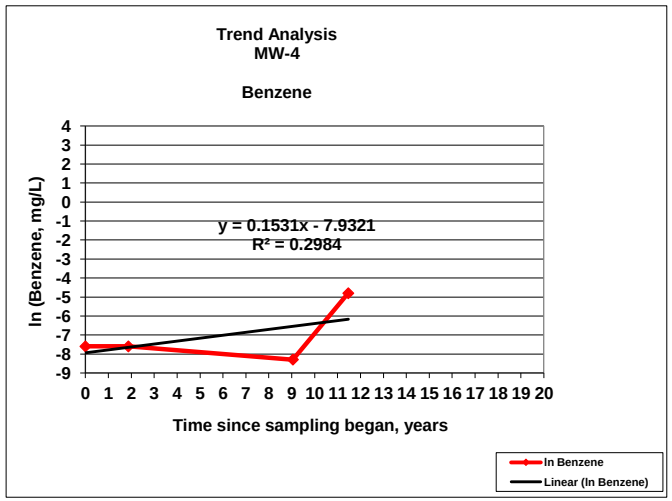
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswik, NJ

Date: 7/10/19

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 4 - downgradient

Sampling Date	Depth to Ground Water feet	Benzene MW-4 mg/L	Benzene MW-4 ug/L	ln Benzene MW-4 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.00050	<1.0	-7.601	0.00
10/19/09		0.00050	<1.0	-7.601	1.87
12/21/16		0.00025	<0.5	-8.294	9.05
5/22/19		0.0082	8.2	-4.804	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	
For non-detects used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-4, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	0.0005		
Enter k_{point}	⇨	0.1531		
Time to reach cleanup level			-4.5	years

Not applicable because concentrations increased

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

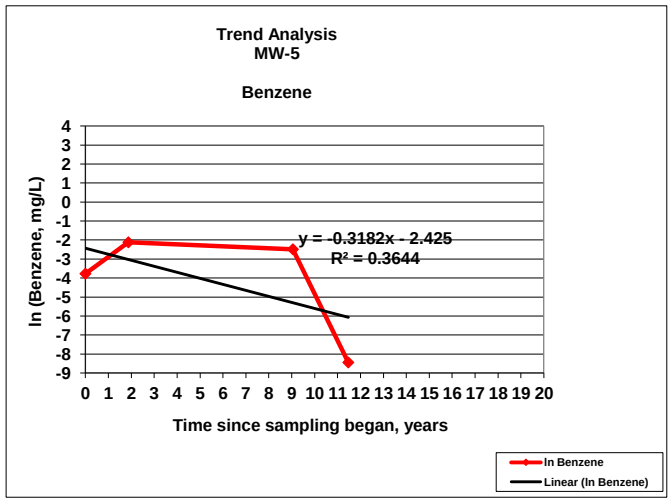
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 5 - upgradient

Sampling Date	Depth to Ground Water feet	Benzene MW-5 mg/L	Benzene MW-5 ug/L	ln Benzene MW-5 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.023	23	-3.772	0.00
10/19/09		0.120	120	-2.120	1.87
12/21/16		0.083	83	-2.489	9.05
5/22/19		0.000215	<0.43	-8.445	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-5, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	0.023		
Enter k_{point}	⇨	0.3182		
Time to reach cleanup level			9.9	years

Groundwater reached standard in last sample

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

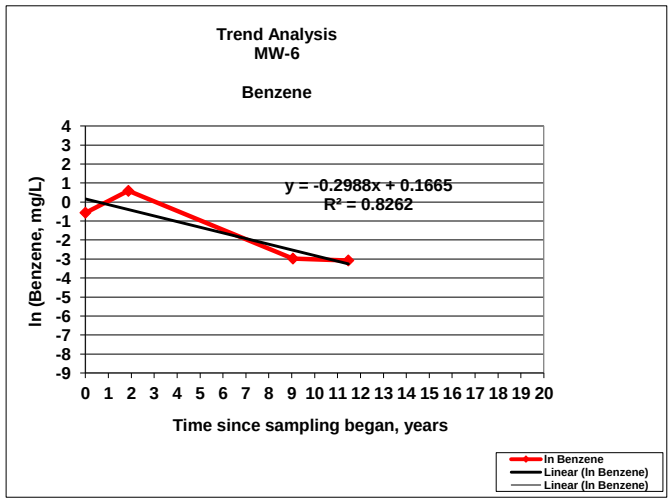
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 6 - side gradient

Sampling Date	Depth to Ground Water feet	Benzene MW-6 mg/L	Benzene MW-6 ug/L	ln Benzene MW-6 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.570	570	-0.562	0.00
10/19/09		1.800	1800	0.588	1.87
12/21/16		0.051	51	-2.976	9.05
5/22/19		0.0462	46.2	-3.075	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-6, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	0.57		
Enter k_{point}	⇨	0.2988		
Time to reach cleanup level			21.2	years

9.73 more years to reach standard from 5/22/19

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

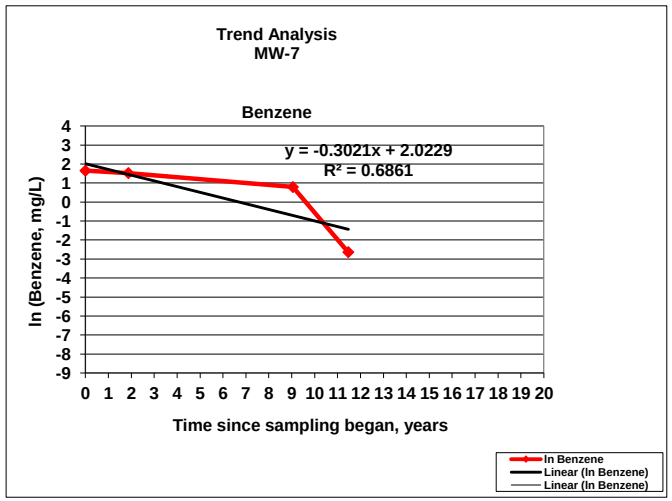
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, Nj

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 7 - side gradient

Sampling Date	Depth to Ground Water feet	Benzene MW-7 mg/L	Benzene MW-7 ug/L	ln Benzene MW-7 mg/L	Elapsed time since 12/5/07 years
12/5/07		5.200	5200	1.649	0.00
10/19/09		4.600	4600	1.526	1.87
12/21/16		2.200	2200	0.788	9.05
5/22/19		0.0715	71.5	-2.638	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-7, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	5.2		
Enter k_{point}	⇨	0.3021		
Time to reach cleanup level			28.3	years

16.83 more years to reach standard from 5/22/19

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

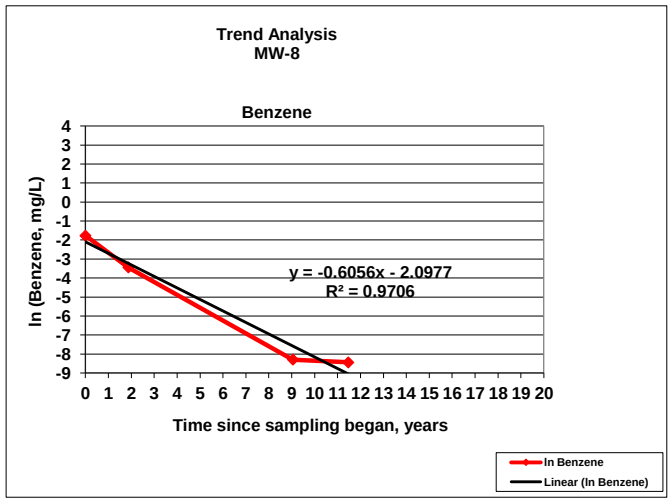
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 8 downgradient

Sampling Date	Depth to Ground Water feet	Benzene MW-8 mg/L	Benzene MW-8 ug/L	ln Benzene MW-8 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.170	170	-1.772	0.00
10/19/09		0.032	32	-3.442	1.87
12/21/16		0.00025	<0.5	-8.294	9.05
5/22/19		0.000215	<0.43	-8.445	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-8, Benzene				
Enter C_{CL}	⇨	**0.001**		
Enter C_o	⇨	**0.017**		
Enter k_{point}	⇨	**0.6056**		
Time to reach cleanup level			**4.7**	**years**

Groundwater reached standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: North Brunswwik Gulf

Facility ID: _____

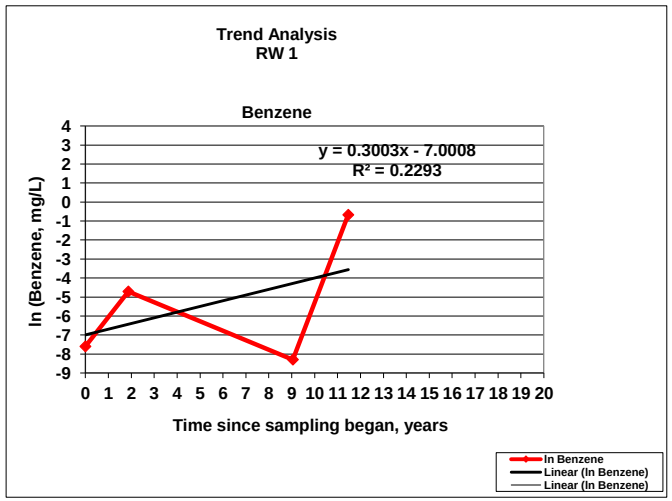
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): RW 1 near source

Sampling Date	Depth to Ground Water feet	Benzene RW-1 mg/L	Benzene RW-1 ug/L	ln Benzene RW-1 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.0005	<1	-7.601	0.00
10/19/09		0.009	9	-4.711	1.87
12/21/16		0.00025	<0.5	-8.294	9.05
5/22/19		0.510	510	-0.673	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

RW 1, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	0.0005		
Enter k_{point}	⇨	0.3003		
Time to reach cleanup level			-2.3	years

Not applicable because concentrations increased

First-Order Decay Rate Calculation

Facility Name: **Norht Brunswick Gulf**

Facility ID: _____

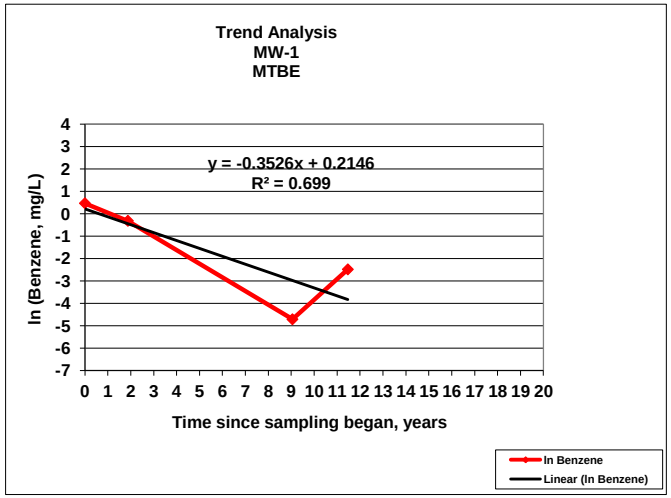
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 1 source

Sampling Date	Depth to Ground Water feet	MTBE MW-1 mg/L	MTBE MW-1 ug/L	ln MTBE MW-1 mg/L	Elapsed time since 12/5/07 years
12/5/07		1.600	1600	0.470	0.00
10/19/09		0.730	730	-0.315	1.87
12/21/16		0.009	9	-4.711	9.05
5/22/19		0.0836	83.6	-2.482	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

⇨

Solutions ⇨

MW-1, MTBE			
Enter C_{CL}	**0.07**		
Enter C_o	**1.6**		
Enter k_{point}	**0.3526**		
Time to reach cleanup level		**8.9**	**years**

Groundwater will likley reach standard in next few years

First-Order Decay Rate Calculation

Facility Name: Example from EPA Issue Paper (Newell, Rifai Wilson, Connor, Aziz and Suarez, November 2002)

Facility ID: _____

Release ID: _____

Facility Location and Address: _____

Date: _____

Type of cleanup system: _____

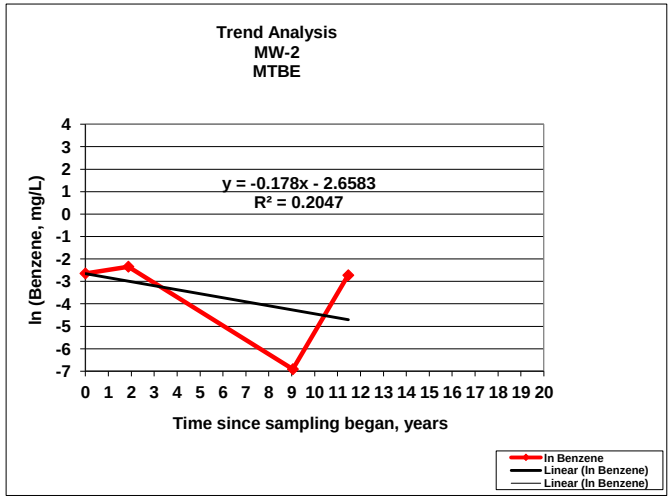
State Project Manager: _____

Dates of cleanup system operation: _____

Effectiveness of cleanup system for contaminant mass removal: _____

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): _____

Sampling Date	Depth to Ground Water feet	MTBE MW-2 mg/L	MTBE MW-2 ug/L	ln MTBE MW-2 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.071	71	-2.645	0.00
10/19/09		0.096	96	-2.343	1.87
12/21/16		0.001	1	-6.908	9.05
5/22/19		0.0656	65.6	-2.724	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW 2 MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	0.071		
Enter k_{point}	⇨	0.178		
Time to reach cleanup level			0.1	years

Groundwater reached standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: Example from EPA Issue Paper (Newell, Rifai Wilson, Connor, Aziz and Suarez, November 2002)

Facility ID: _____

Release ID: _____

Facility Location and Address: _____

Date: _____

Type of cleanup system: _____

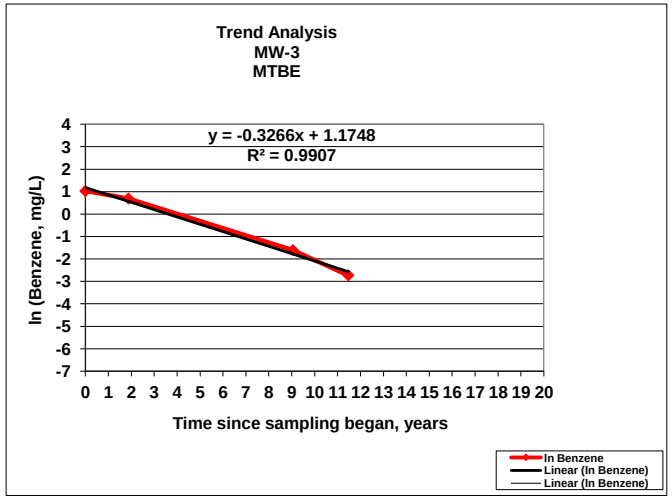
State Project Manager: _____

Dates of cleanup system operation: _____

Effectiveness of cleanup system for contaminant mass removal: _____

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): _____

Sampling Date	Depth to Ground Water feet	MTBE MW-3 mg/L	MTBE MW-3 ug/L	ln MTBE MW-3 mg/L	Elapsed time since 12/5/07 years
12/5/07		2.800	2800	1.030	0.00
10/19/09		2.000	2000	0.693	1.87
12/21/16		0.200	200	-1.609	9.05
5/22/19		0.0654	65.4	-2.727	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-3, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	2.8		
Enter k_{point}	⇨	0.3266		
Time to reach cleanup level			11.3	years

Groundwater reached the standard in the last sample

First-Order Decay Rate Calculation

Facility Name: Example from EPA Issue Paper (Newell, Rifai Wilson, Connor, Aziz and Suarez, November 2002)

Facility ID: _____

Release ID: _____

Facility Location and Address: _____

Date: _____

Type of cleanup system: _____

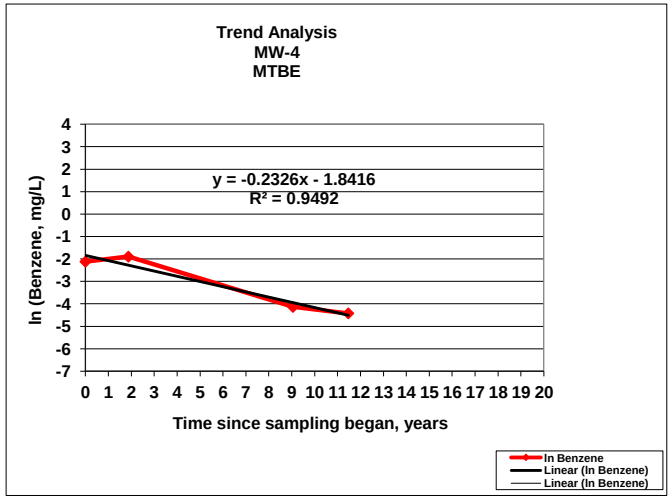
State Project Manager: _____

Dates of cleanup system operation: _____

Effectiveness of cleanup system for contaminant mass removal: _____

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): Downgradient

Sampling Date	Depth to Ground Water feet	MTBE MW-4 mg/L	MTBE MW-4 ug/L	ln MTBE MW-4 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.120	120	-2.120	0.00
10/19/09		0.150	150	-1.897	1.87
12/21/16		0.016	16	-4.135	9.05
5/22/19		0.0120	12.3	-4.423	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-3, MTBE			
Enter C_{CL}	⇨	0.07	
Enter C_o	⇨	0.12	
Enter k_{point}	⇨	0.2326	
Time to reach cleanup level		2.3	years

Groundwater reached the standard in the last sample2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

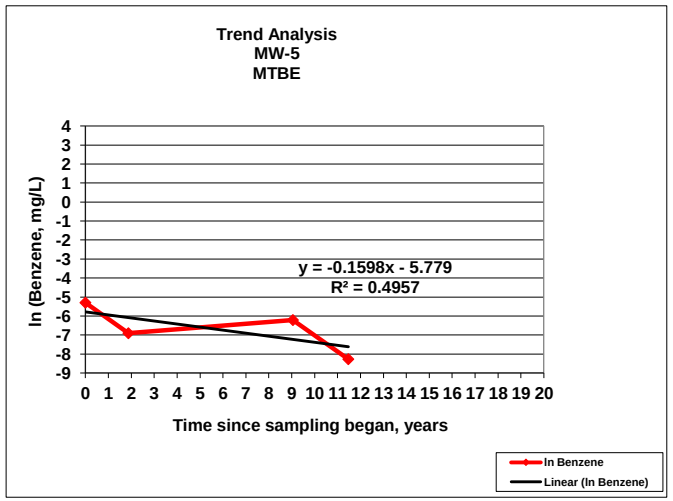
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 5 - upgradient

Sampling Date	Depth to Ground Water feet	MTBE MW-5 mg/L	MTBE MW-5 ug/L	ln MYBE MW-5 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.005	<10	-5.298	0.00
10/19/09		0.001	<2	-6.908	1.87
12/21/16		0.002	2	-6.215	9.05
5/22/19		0.000255	<0.51	-8.274	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-5, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	0.005		
Enter k_{point}	⇨	0.1598		
Time to reach cleanup level			-16.5	years

never was above cleanup standard of 70

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

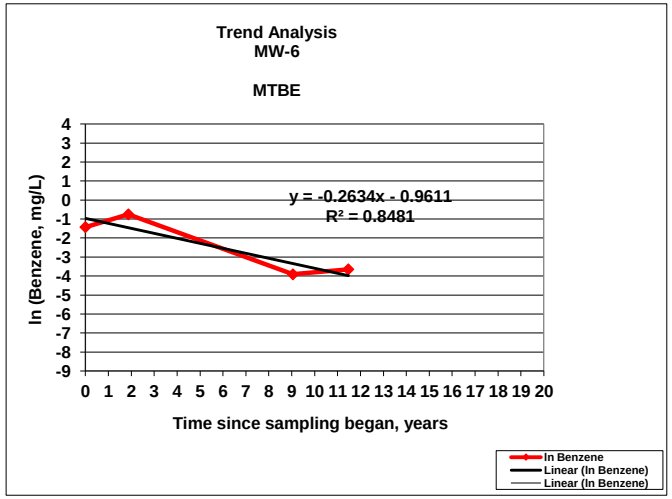
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 6 - side gradient

Sampling Date	Depth to Ground Water feet	MTBE MW-6 mg/L	MTBE MW-6 ug/L	ln MTBE MW-6 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.240	240	-1.427	0.00
10/19/09		0.470	470	-0.755	1.87
12/21/16		0.020	20	-3.912	9.05
5/22/19		0.026	26	-3.650	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-6, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	0.24		
Enter k_{point}	⇨	0.2634		
Time to reach cleanup level			4.7	years

Groundwater was below standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

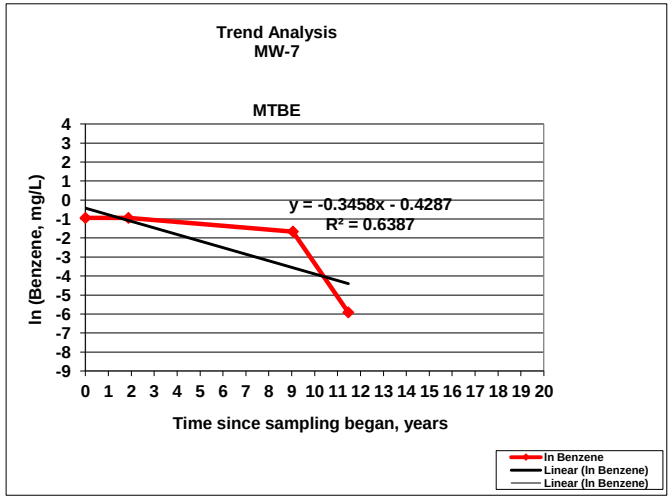
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, Nj

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 7 - side gradient

Sampling Date	Depth to Ground Water feet	MTBE MW-7 mg/L	MTBE MW-7 ug/L	ln MTBE MW-7 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.390	390	-0.942	0.00
10/19/09		0.390	390	-0.942	1.87
12/21/16		0.190	190	-1.661	9.05
5/22/19		0.0027	2.7	-5.915	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-7, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	0.39		
Enter k_{point}	⇨	0.3458		
Time to reach cleanup level			5.0	years

Groundwater reached standard in last sample

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

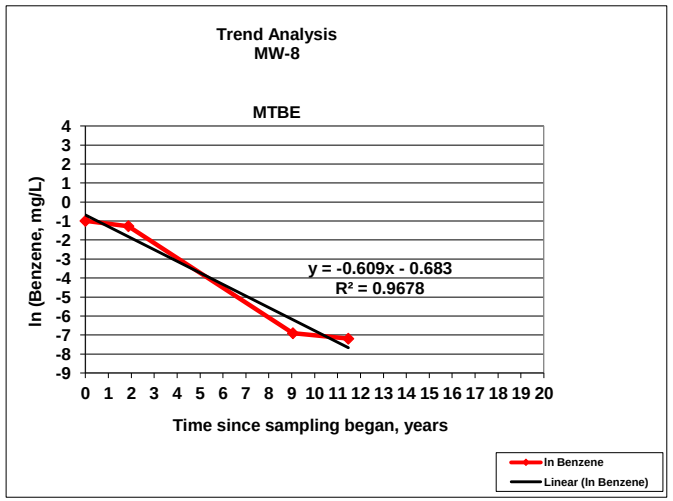
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 8 downgradient

Sampling Date	Depth to Ground Water feet	MTBE MW-8 mg/L	MTBE MW-8 ug/L	ln MTBE MW-8 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.370	370	-0.994	0.00
10/19/09		0.280	280	-1.273	1.87
12/21/16		0.001	1	-6.908	9.05
5/22/19		0.00075	0.75	-7.195	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-8, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	0.37		
Enter k_{point}	⇨	0.609		
Time to reach cleanup level			2.7	years

Groundwater reached standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

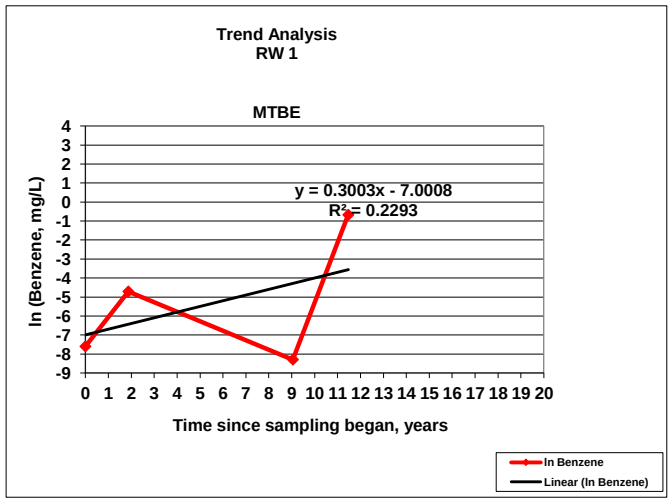
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): RW 1 near source

Sampling Date	Depth to Ground Water feet	MTBE RW 1 mg/L	MTBE RW 1 ug/L	ln MTBE RW 1 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.0005	<1	-7.601	0.00
10/19/09		0.009	9	-4.711	1.87
12/21/16		0.000	<0.5	-8.294	9.05
5/22/19		0.510	510	-0.673	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-8, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	0.0005		
Enter k_{point}	⇨	0.003		
Time to reach cleanup level			-1647.2	years

Not applicable because concentrations increased

First-Order Decay Rate Calculation

Facility Name: **Norht Brunswick Gulf**

Facility ID: _____

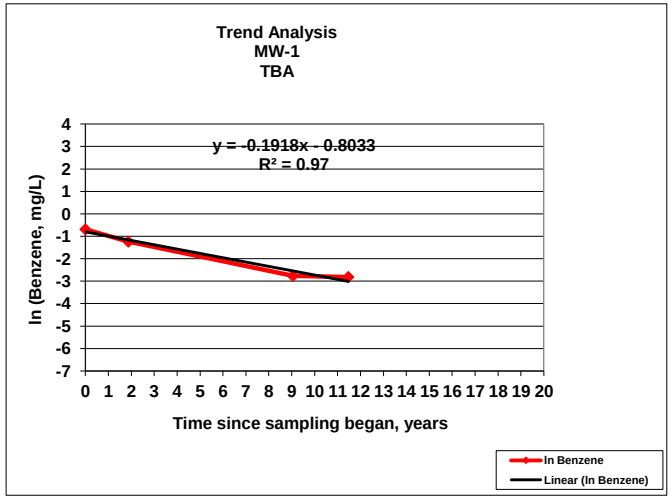
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 1 source

Sampling Date	Depth to Ground Water feet	TBA MW-1 mg/L	TBA MW-1 ug/L	ln TBA MW-1 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.500	<1000	-0.693	0.00
10/19/09		0.290	290	-1.238	1.87
12/21/16		0.063	63	-2.765	9.05
5/22/19		0.060	<120	-2.813	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-1, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	0.5		
Enter k_{point}	⇨	0.1918		
Time to reach cleanup level			8.4	years

Groundwater may be below the standard

First-Order Decay Rate Calculation

Facility Name: Example from EPA Issue Paper (Newell, Rifai Wilson, Connor, Aziz and Suarez, November 2002)

Facility ID: _____

Release ID: _____

Facility Location and Address: _____

Date: _____

Type of cleanup system: _____

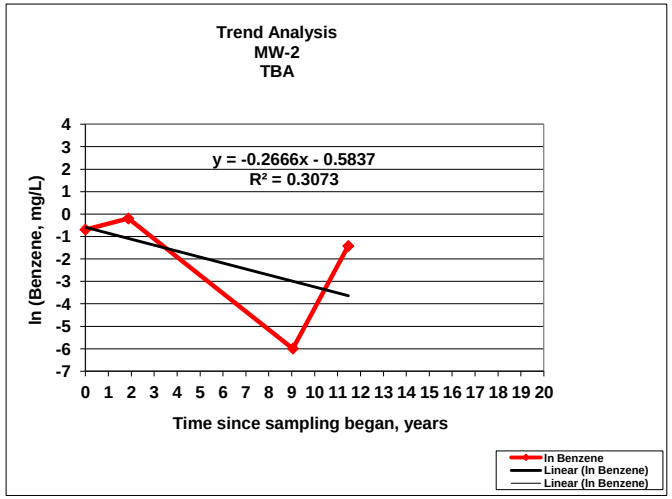
State Project Manager: _____

Dates of cleanup system operation: _____

Effectiveness of cleanup system for contaminant mass removal: _____

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): _____

Sampling Date	Depth to Ground Water feet	TBA MW-2 mg/L	TBA MW-2 ug/L	ln TBA MW-2 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.500	<1000	-0.693	0.00
10/19/09		0.820	820	-0.198	1.87
12/21/16		0.0025	<5	-5.991	9.05
5/22/19		0.2410	241	-1.423	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW 2 TBA			
Enter C_{CL}	⇨	0.1	
Enter C_o	⇨	0.5	
Enter k_{point}	⇨	0.2666	
Time to reach cleanup level		6.0	years

Groundwater will likely reach standard in next few years

First-Order Decay Rate Calculation

Facility Name: Example from EPA Issue Paper (Newell, Rifai Wilson, Connor, Aziz and Suarez, November 2002)

Facility ID: _____

Release ID: _____

Facility Location and Address: _____

Date: _____

Type of cleanup system: _____

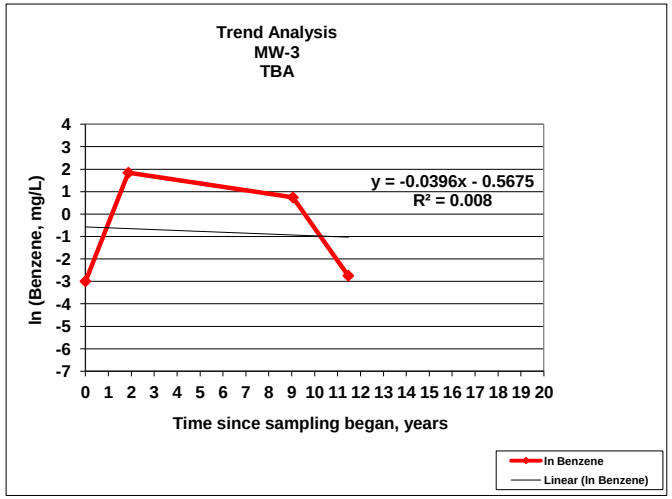
State Project Manager: _____

Dates of cleanup system operation: _____

Effectiveness of cleanup system for contaminant mass removal: _____

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): _____Down graadient_____

Sampling Date	Depth to Ground Water feet	TBA MW-3 mg/L	TBA MW-3 ug/L	ln TBA MW-3 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.050	<100	-2.996	0.00
10/19/09		6.300	6300	1.841	1.87
12/21/16		2.100	2100	0.742	9.05
5/22/19		0.0643	64.3	-2.744	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-3, TBA			
Enter C_{CL}	⇨	0.1	
Enter C_o	⇨	0.05	
Enter k_{point}	⇨	0.0396	
Time to reach cleanup level		-17.5	years

Groundwater reached standard in the last sample

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

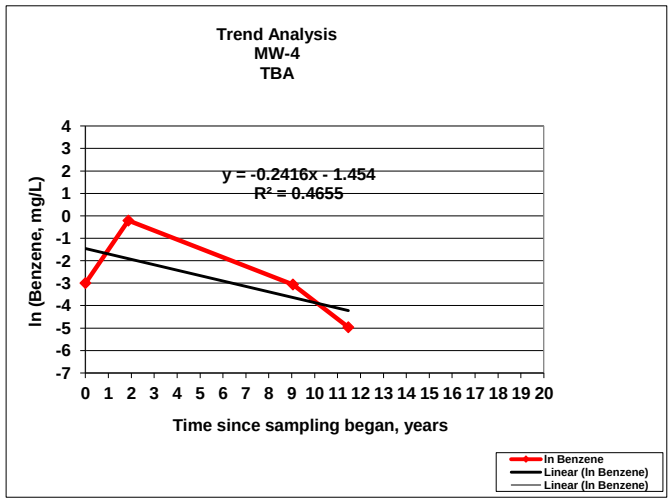
Release ID: _____

Facility Location and Address: ___ 1696 Georges RD RT 130 North Brunswick, NJ

Date: 7/10/19

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): __MW 4 downgradient_____

Sampling Date	Depth to Ground Water feet	TBA MW-4 mg/L	TBA MW-4 ug/L	ln TBA MW-4 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.050	<100	-2.996	0.00
10/19/09		0.810	810	-0.211	1.87
12/21/16		0.047	47	-3.058	9.05
5/22/19		0.007	7	-4.962	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-4, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	0.05		
Enter k_{point}	⇨	0.4655		
Time to reach cleanup level			-1.5	years

Groundwater reached the standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

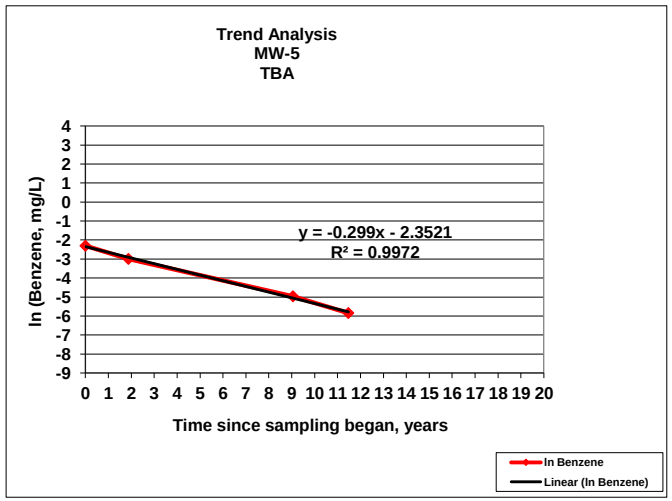
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 5 - upgradient

Sampling Date	Depth to Ground Water feet	TBA MW-5 mg/L	TBA MW-5 ug/L	ln TBA MW-5 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.100	<200	-2.303	0.00
10/19/09		0.050	<100	-2.996	1.87
12/21/16		0.007	7	-4.962	9.05
5/22/19		0.0029	<5.8	-5.843	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-5, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	0.1		
Enter k_{point}	⇨	0.299		
Time to reach cleanup level			0.0	years

Groundwater reached standard in last 3 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

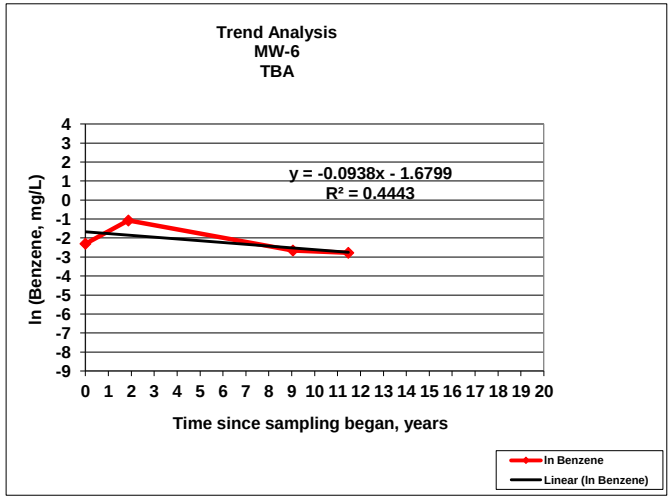
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 5 - upgradient

Sampling Date	Depth to Ground Water feet	TBA MW-6 mg/L	TBA MW-6 ug/L	ln TBA MW-6 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.100	<200	-2.303	0.00
10/19/09		0.340	340	-1.079	1.87
12/21/16		0.070	70	-2.659	9.05
5/22/19		0.0620	62	-2.781	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-6, TBA			
Enter C_{CL}	⇨	0.1	
Enter C_o	⇨	0.1	
Enter k_{point}	⇨	0.0938	
Time to reach cleanup level		0.0	years

Groundwater reached standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

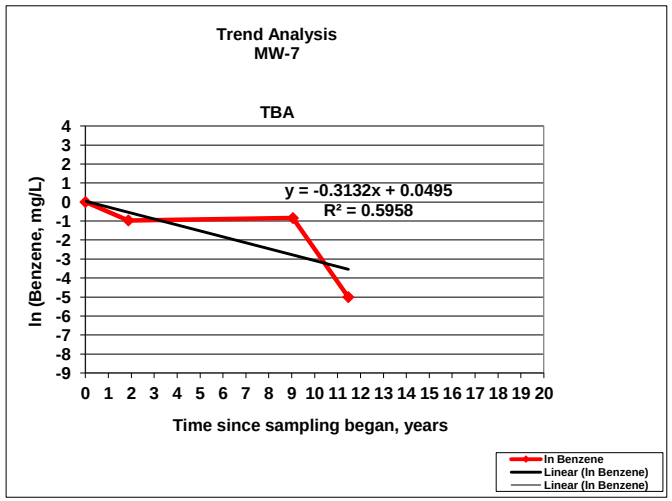
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, Nj

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 7 - side gradient

Sampling Date	Depth to Ground Water feet	TBA MW-7 mg/L	TBA MW-7 ug/L	ln TBA MW-7 mg/L	Elapsed time since 12/5/07 years
12/5/07		1	<2000	0.000	0.00
10/19/09		0.380	380	-0.968	1.87
12/21/16		0.430	430	-0.844	9.05
5/22/19		0.0067	6.7	-5.006	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-7, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	1		
Enter k_{point}	⇨	0.3132		
Time to reach cleanup level			7.4	years

Groundwater reached standard in last sample

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

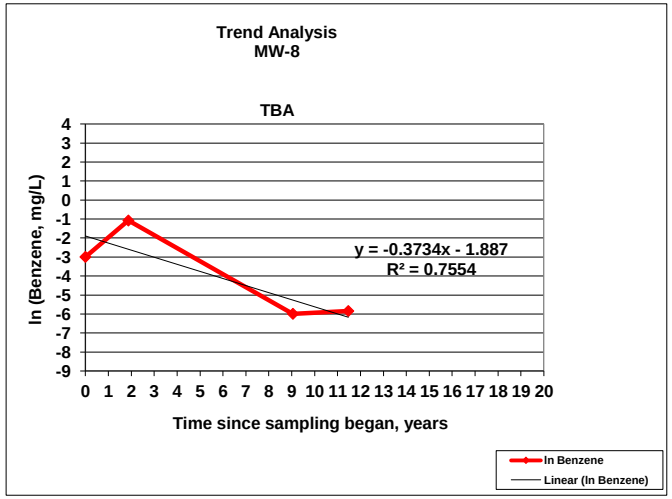
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 8 downgradient

Sampling Date	Depth to Ground Water feet	TBA MW-8 mg/L	TBA MW-8 ug/L	ln TBA MW-8 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.050	<100	-2.996	0.00
10/19/09		0.340	340	-1.079	1.87
12/21/16		0.0025	<5	-5.991	9.05
5/22/19		0.0029	<5.8	-5.843	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-8, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	0.05		
Enter k_{point}	⇨	0.3734		
Time to reach cleanup level			-1.9	years

Groundwater reached standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

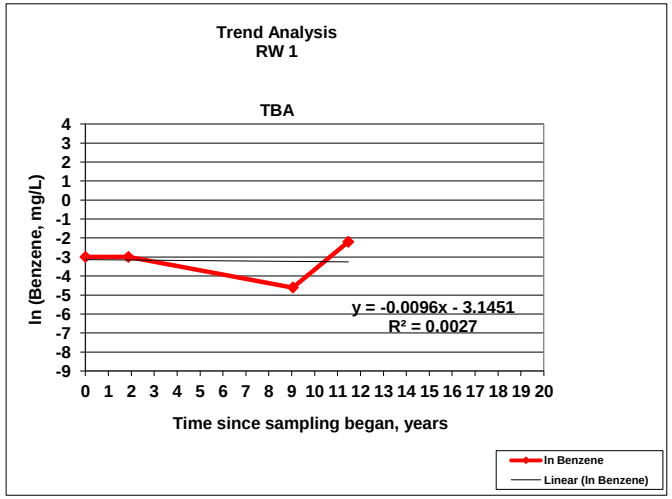
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 8 downgradient

Sampling Date	Depth to Ground Water feet	TBA RW 1 mg/L	TBA RW 1 ug/L	ln TBA RW 1 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.050	<100	-2.996	0.00
10/19/09		0.050	<100	-2.996	1.87
12/21/16		0.010	10	-4.605	9.05
5/22/19		0.111	111	-2.198	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-8, TBA				
Enter C_{CL}	⇨	**0.1**		
Enter C_o	⇨	**0.05**		
Enter k_{point}	⇨	**0.0096**		
Time to reach cleanup level			**-72.2**	**years**

Not applicable because concentrations increased

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Middlesex County Health Department
35 Kennedy Blvd..
East Brunswick, New Jersey 08816
Attn: Lester Jones - Director

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 RT 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Mr. Jones:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Map

Cc:
Middlesex County Clerk: Elaine Flynn
Middlesex County Planning Board: Mirah Becker

North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Department of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Middlesex County Administration Bldg.
1st Floor
75 Bayard St.
New Brunswick, New Jersey 08901
Attn: Elaine Flynn - Clerk

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Ms. Flynn:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC. is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Dept.: Lester Jones
Middlesex County Office of Planning: Mirah Becker
North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Department of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Middlesex County
Office of Planning
5th Floor
75 Bayard St.
New Brunswick, New Jersey 08901
Attn: Mirah Becker

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Ms Becker:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project are listed below:

Responsible party: 1696 RT 130 LLC
Representative: Mr. Walter Lapp
Mailing address: 555 Georges Rd Dayton, NJ 08810
Phone #: 732-710-7209
Email: lapphouse@verizon.net

LSRP ID#:585751
LSRP Name: Frank Jasiulewicz
Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 610-384-2719
Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc:

Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn
North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Department of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

North Brunswick Municipal Building
710 Hermann Road
North Brunswick, New Jersey 08902
Attn: Lisa Russo - Municipal Clerk

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Ms. Russo

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC. is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn
Middlesex County Planning Board: Mirah Becker
North Brunswick Health Officer: Nick DeStefano

North Brunswick Department of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

North Brunswick Municipal Building
710 Hermann Road
North Brunswick, New Jersey 08902
Attn: Nick DeStefano -Health Officer

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Mr. DeSefano

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn
Middlesex County Planning Board: Mirah Becker
North Brunswick Municipal Clerk: Lisa Russo

North Brunswick Department of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

North Brunswick Twp.
Department of Public Works
45 Quarry Lane
North Brunswick, New Jersey 08902
Attn: Eric Chaszar - Director

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Mr. Chaszar

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC. is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn
Middlesex County Planning Board: Mirah Beker

North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Dept. of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19

Sent Via US Mail

NJ Department of Transportation
Davis Goldberg Complex
1035 Parkway Avenue
Trenton, NJ 08625
Attn: Dianne Scaccetti: Commissioner

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 RT 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Ms. Scaccetti:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and heating oil type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figures provide information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn
Middlesex County Planning Board: Mirah Becker
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Health Officer: Nick DeStefano
North Brunswick Department of Public Works: Eric Chaszar
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Brunswick Auto Craft.
1696 Georges Rd
North Brunswick, NJ 08902

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Sir:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property and your property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC
Representative: Mr. Walter Lapp
Mailing address: 555 Georges Rd Dayton, NJ 08810
Phone #: 732-710-7209
Email: lapphouse@verizon.net

LSRP ID#:585751
LSRP Name: Frank Jasiulewicz
Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 610-384-2719
Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn

Middlesex County Planning Board: Mirah Becker
North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Public Works Dept: Eric Chaszar
New Jersey Department of Transportation: Dianne Scacetti
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp.: Ted Cohen tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Hare Krishna Fuel.
1696 Georges Rd RT 130
North Brunswick, NJ 08902

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Sir:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property and your property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn

Middlesex County Planning Board: Mirah Becker
North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Public Works Dept: Eric Chaszar
New Jersey Department of Transportation: Dianne Scacetti
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp.: Ted Cohen tenant
Brunswick Auto craft: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Petroleum Supply Corp.
3701 Bedford Ave.
Brooklyn, NY 11229
Attn: Ted Cohen

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Mr. Cohen:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property and your property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones

Middlesex County Clerk: Elaine Flynn
Middlesex County Health Act Agency
Middlesex County Planning Board: Mirah Becker
North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Public Works Dept: Eric Chaszar
New Jersey Department of Transportation: Dianne Scacetti
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant