QUARTERLY GROUNDWATER MONITORING REPORT

South Island Apartments Site

Starbuck Drive,

Town of Green Island, Albany County, New York

BCP Site # C401074

October 2020

Prepared for:
South Island Apartments, LLC
c/o Couch White, LLP
540 Broadway, 7th Floor
Albany, New York 12201-2222

Prepared by:

349 Northern Blvd. STE 3
Albany, NY 12205

Envirospec Engineering Project E17-1600

TABLE OF CONTENTS

TABLES

FIGURES

DRAWINGS

APPENDICES

1.0 INTRODUCTION

This Quarterly Groundwater Monitoring Report has been prepared by Envirospec Engineering, PLLC (Envirospec) on behalf of South Island Apartments, LLC (SIA) for the South Island Apartments (Site) located at Starbuck Drive in the Town of Green Island (and Village), Albany County, New York (see Figure 1).

SIA is submitting this Quarterly Groundwater Monitoring Report under the New York State Brownfield Cleanup Program (BCP) as a Volunteer in accordance with the requirements of the Interim Site Management Plan (SMP) for the site. The Site is being redeveloped as a mixed housing and commercial use consisting of apartments, retail, and recreation areas. The South Island Apartments site commenced work under the December 2019 Interim Site Management Plan (SMP) on January 7, 2020.

1.1 General Site Description

The site is located in Green Island, Albany County, New York and is identified as Section 33.09 Block 1 and Lots 3, 5, and 6 on the Village of Green Island 2019 Tax Map (see Appendix A). The site is an approximately 11.495-acre area and is bounded by the Troy/ Green Island Bridge to the north and the Hudson River to the south, east, and west (see Figure 1 – Site Layout Map). The boundaries of the site are more fully described in the Environmental Easement metes and bounds found in the Interim SMP.

2.0 SITE BACKGROUND AND REMEDIAL HISTORY

2.1 BACKGROUND

According to a 2008 Phase I Environmental Site Assessment (Shifrin 2008) conducted by Shifrin & Associates Inc. (Shifrin), the Site was operated as a petroleum terminal since 1918. Available historical maps show a terminal located on the property in 1925. Reportedly during its operation, the Site contained several aboveground storage tanks (ASTs), at least one (1) underground oil-water separator tanks, a truck loading rack, a barge dock, an office building, an electrical shed, storage sheds, earthen dikes, and internal roads. When in service, the terminal loaded and unloaded petroleum products that were transported to the Site by barge. Fuels stored at the former terminal included kerosene, diesel, gasoline, and No. 2 fuel oil. The terminal was not connected to a sewer line; wastewater was repeatedly discharged to a septic tank and leach field on-Site. According to the NYSDEC Spill Incidents Database, the Site has had thirteen (13) documented petroleum spills, with twelve (12) closed by the NYSDEC and one (1) spill (#8702376) remaining open.

According to the Supplemental Site Investigation in May 2016 conducted by SPEC Engineering (SPEC), the terminal was demolished sometime between 2008 and 2010 although the earthen dikes, at least one (1) underground oil-water separator, and a handful of small, vacant structures remained on the site. There were no other noted uses of this property.

Extensive investigation activities were undertaken at the Site during the Remedial Investigation (RI) in 2017 and 2018. Detailed results are available in the RI Report submitted to NYSDEC in November 2017 (Envirospec 2018a) and the RI Report Addendum submitted to NYSDEC in July 2018 (Envirospec 2018b).

2.2 INTERIM REMEDIAL MEASURES (IRM)

Based on the data obtained during the RI, it was determined that the following IRM activities would be completed at the site prior to initiating the activities addressed in the RAWP:

- Removal of underground oil-water separator;
- Excavation of SVOC-impacted soils that exceed Commercial Soil Cleanup Objectives (CSCOs) in shallow soils at SB-26 and SB-37;
- Excavation of LNAPL-impacted area in former loading rack and MW-5 areas.

The former loading rack area was excavated to an elevation of -3.5 to 3 feet, with sheet piling installed to elevation -25 ft along the western bank. The MW-5 area was benched back and excavated to elevation -3 to -3.5 ft. The depth of the bottom of the excavations were based on

historical observations of LNAPL in monitoring wells and visual observations in the field. The former loading rack excavation and MW-5 excavation remained open during oil extraction activities, which were completed from May 3, 2018 to June 25, 2018 and from May 14, 2018 to June 26, 2018, in the former loading rack and MW-5 areas, respectively.

A total of approximately 4,542 tons of non-hazardous soil were removed for off-site disposal during the IRM activities. A total of 77,717 gallons of oil/water mixture were extracted from the former loading rack and MW-5 areas, with approximately 39,170 gallons estimated to be oil. Further details on these activities can be found in the IRM Work Plan (Envirospec 2018) and the Construction Completion Report (Envirospec 2018c). The excavation of SB-37 was completed as a result of the RI Addendum completed in July 2018.

2.2 REMEDIAL ACTION WORKPLAN (RAWP)

The Remedial Action Work Plan (RAWP) was approved for the site in October 2018 (Envirospec 2018d) and is outlined in the Decision Document dated October 22, 2018 (NYSDEC 2018). The RAWP includes installation of an engineered cover system, consisting of building foundations, pavement, sidewalks, or 2’ of clean soil in open areas, across the site. The cover system along the banks consists of rip-rap and a block wall along the eastern bank and rip-rap and retaining walls along the western bank. Two (2) temporary monitoring wells were installed on the site to monitor for potential presence of remaining LNAPL for quarterly groundwater sampling during interim site management. The site entered interim site management on January 7, 2020.

3.0 GROUNDWATER SAMPLING – AUGUST 2020

The 3rd quarter 2020 groundwater sampling event was completed on August 7, 2020. Well locations are shown in Drawing D-1. Gauging of both wells was completed prior to sampling to determine the static water level. An oil-water interface probe was used to determine if oil was present and, if so, the thickness of the oil. A summary of depths to oil and groundwater, oil layer thickness, and groundwater elevations is included as Table 1.

Table 1. Well Gauging Results.

Monitoring Well ID	Depth to Oil (ft bgs)	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft, AMSL)	Oil layer thickness (ft)
MW-32	26.1	26.4	+8.75	0.3
MW-33	27.35	26.6	+9.85	0.75

[a] = no oil was measured by the probe, but an oily residue was visually observed on the probe when it was removed from the well.

Wells were purged using a submersible pump, with water quality parameters (pH, dissolved oxygen, turbidity, ORP, conductivity, and temperature) monitored during purging. Field sheets are provided in Appendix B. After purging, samples were collected using the submersible pump. A duplicate and MS/MSD samples were collected from MW-33 for laboratory and sampling quality assurance/ quality control purposes.

Purge water was collected and containerized in a 55-gallon drum and will be transported off-site for disposal at a regulated disposal facility.

Groundwater samples were placed in pre-cleaned laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to Pace Analytical Services in Greensburg, PA, which is a NYSDOH ELAP-certified lab. Samples were analyzed for the following:

- TCL SVOCs by EPA Method 8270
- Total TAL metals by EPA Method 6010 (EPA Method 7471 for mercury)
- Dissolved TAL metals by EPA Method 6010 (EPA Method 7471 for mercury)

4.0 GROUNDWATER QUALITY

A summary of the exceedances from this sampling round is included in Appendix C. Full laboratory analytical results are included as Appendix D.

No exceedances, other than iron, manganese, and sodium, were detected in MW-32, MW-33, and the duplicate for MW-33.

5.0 SUMMARY

There were no exceedances of contaminants of concern during this sampling round. Groundwater sampling will continue under the Interim SMP for the site on a quarterly basis, with the next sampling planned for Fall 2020.

6.0 REFERENCES

Envirospec. 2018. Interim Remedial Measures (IRM) Work Plan. South Island Apartments, BCP Site #C401074. March 2018.

Envirospec. 2018a. Remedial Investigation Report for South Island Apartments, BCP Site # C401074. August 2018.

Envirospec. 2018b. Remediation Investigation Report Addendum South Island Apartments Northern Parcel, BCP Site # C401074. August 2018.

Envirospec. 2018c. Interim Remedial Measures (IRM) Construction Completion Report (CCR) for South Island Apartments, BCP Site #C401074. October 2018.

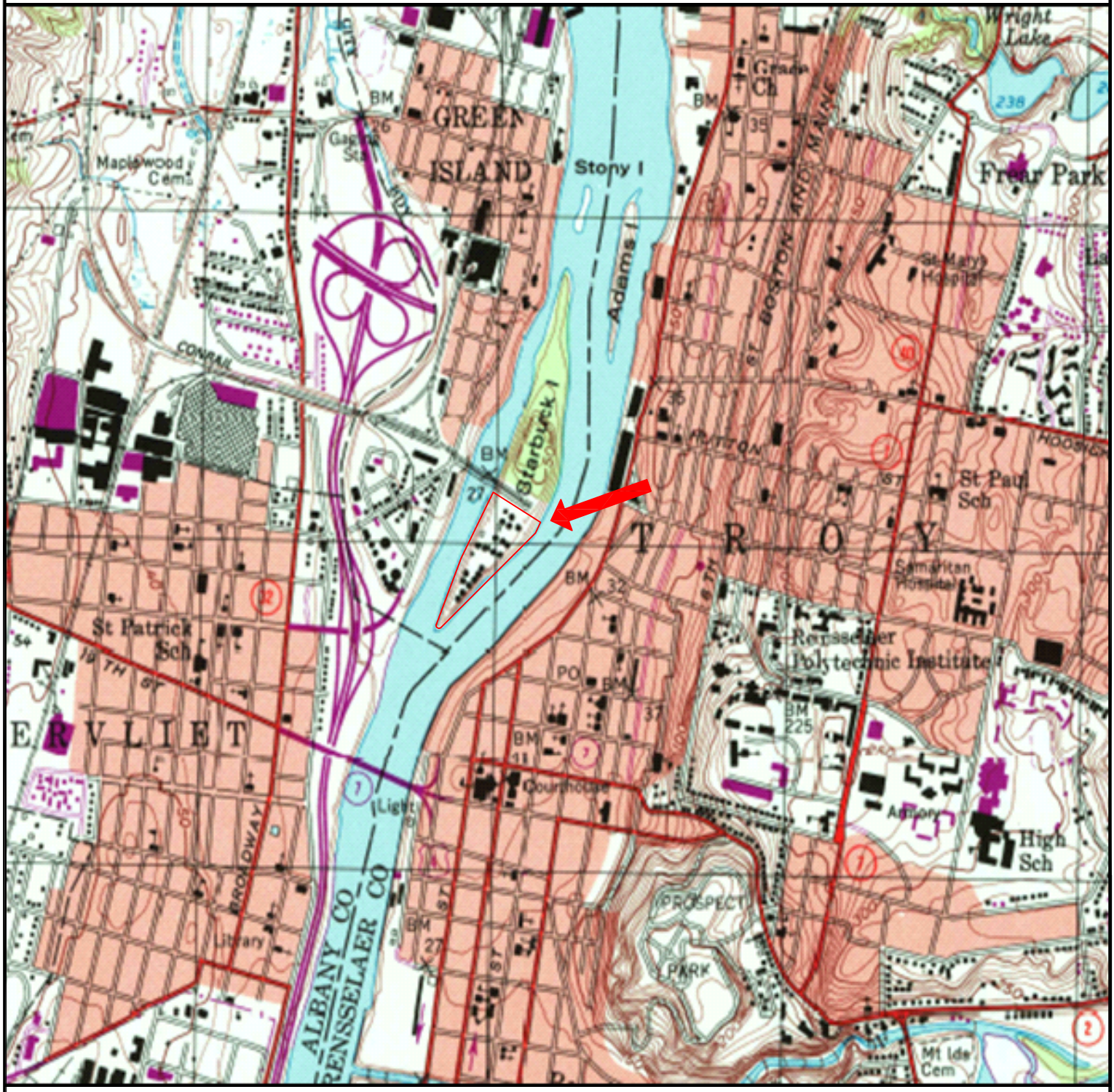
Envirospec. 2018d. Remedial Action Work Plan for South Island Apartments, BCP Site #C401074. October 2018.

NYSDEC. 2018. Decision Document. South Island Apartments, Brownfield Cleanup Program, Green Island, Albany County. Site No. C401074. October 2018.

Shifrin & Associates, Inc. 2008. Phase I Environmental Site Assessment for 1 Osgood Avenue, Green Island, New York 12183. June 3, 2008.

FIGURES

Figure 1 Site Location Map



APPROXIMATE SITE BOUNDARY

Scale: 1:1,000 ft

TITLE: FIGURE 1 – SITE LOCATION MAP

LOCATION: 1 STARBUCK DRIVE
GREEN ISLAND, NEW YORK

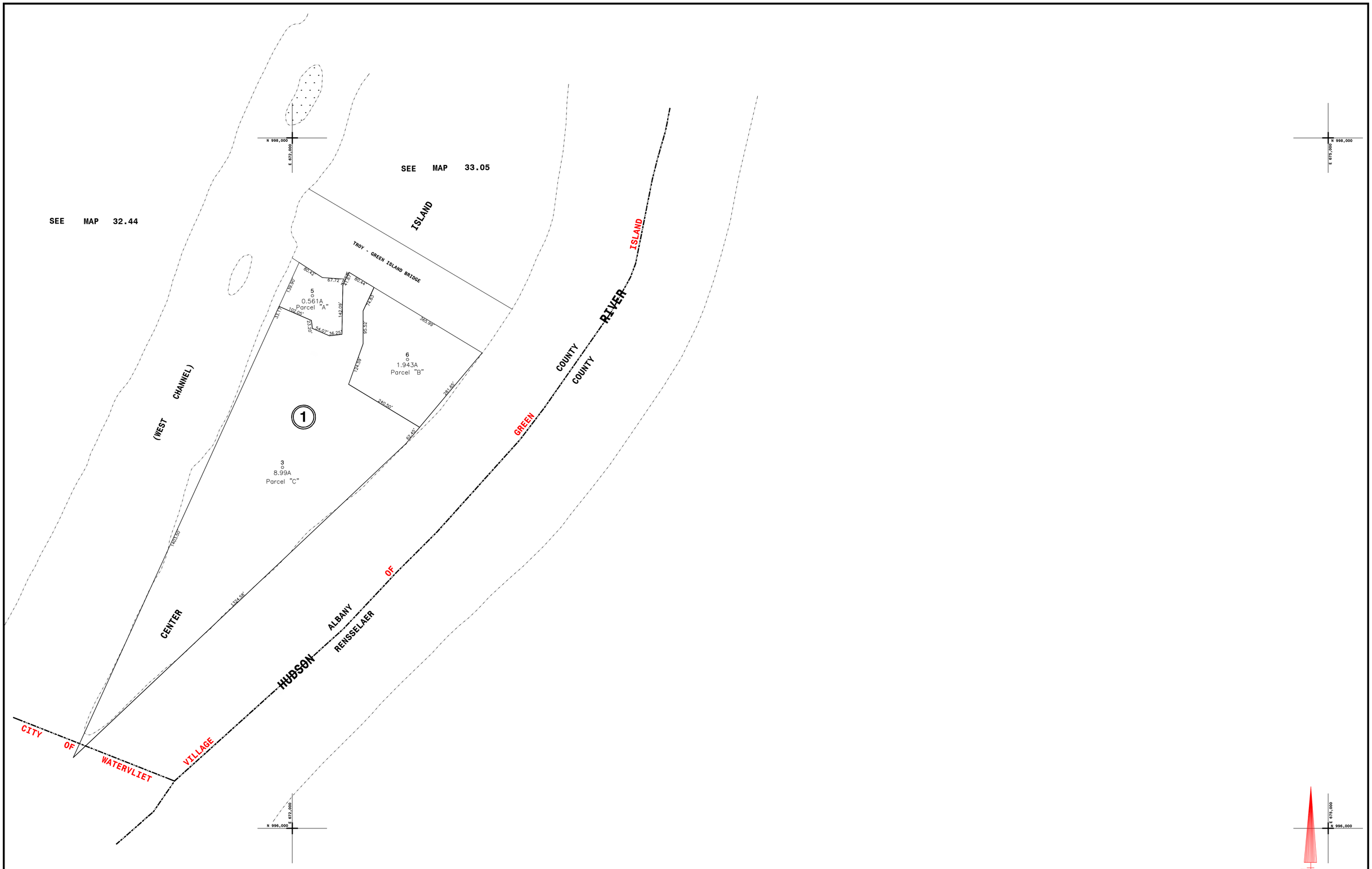
envirospec ENGINEERING, PLLC
348 Northern Blvd., Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.453.2204
www.envirospeceng.com

APPENDIX A
TAX MAP

envirospec ENGINEERING, PLLC

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)



THIS MAP PREPARED FOR ASSESSMENT PURPOSES ONLY AND
NOT TO BE USED FOR THE CONVEYANCE OF PROPERTY

NYS PLANE COORDINATE SYSTEM NAD27

PREPARED BY
SMITH & MAHONEY, ENGINEERS & SURVEYORS
ALBANY, NEW YORK
PREPARED FOR
REAL PROPERTY TAX SERVICE AGENCY
ALBANY COUNTY, NEW YORK

DIGITAL CONVERSION BY:
THE SANBORN MAP COMPANY INC.
PELHAM, NEW YORK

REVISION TABLE

DATE	BY	CHANGES OR ADDITIONS	DATE	BY	CHANGES OR ADDITIONS
11-21-06	JKD	SUBD 1-2 INTO 21 & 22 PER LIBER 2362-807,2863-113			
4/22/19	JKD	CREATED PARCEL 1-5 PER R2019-4897 & PARCEL 1-6 PER R2019-4898; REVISED PARCEL 1-3 PER R2019-4899; DELETED PARCELS 1-1, 21,2,2 & 4 PER THE AFOREMENTIONED DEEDS & R2019-4895. NO MAP FILED AS OF APRIL 19, 2019.			

SPECIAL DISTRICTS

TYPE	SYMBOL	DISTRICT NAME	TYPE	SYMBOL	DISTRICT NAME
Fire	—f—		Water	—w—	

LEGEND

PROPERTY LINE
ORIGINAL LOT LINE
RAIL ROAD
STREAM OR DITCH
ROAD OR RAIL ROAD BNDY.
STREET CENTERLINE
COUNTY LINE
CITY LINE
VILLAGE LINE
TOWN LINE
BLOCK LIMIT
GREAT LOT LINE
EASEMENT LINE — E —
WATER DISTRICT LINE — W —
TAX DISTRICT LINE
FIRE DISTRICT LINE — f —
DENOTES COMMON OWNER
TAX MAP BLOCK NO. (3)
TAX MAP PARCEL NO. 74.12-1-10
STREET NUMBER 14
FILED PLAN LOT NO. 17
GREAT LOT NO. (5)
CALCULATED ACREAGE 7.1 A (C)
DEED ACREAGE 11.2 A
SCALED DIMENSION 725'(S)
DEED DIMENSION 53.67'
VISUAL CENTER OF PARCEL O

32.36	33.05	
32.44		

SHEET INDEX

TAX MAP
VILLAGE OF GREEN ISLAND
TOWN OF GREEN ISLAND
ALBANY COUNTY, NEW YORK

33.09

0 100 200
SCALE: 1" = 100'

TAXABLE STATUS DATE: 3/1/2020

ISSUED BY RPTSA ON MONDAY, JUNE 3, 2019

APPENDIX B
GROUNDWATER SAMPLING LOGS

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204
A Woman Owned Business Enterprise (WBE)

Typo- confirmed w /PM that this is MW-32
RC 11/2/20

envirospec ENGINEERING, PLLC

349 Northern Blvd
Albany, NY 12204
Phone:
518.453.2203

Well Sampling Field Record

Well No:	MW-33		
Date(s):	8/7/2020		
Weather	Temperature		
Rain	High:	72	
	Low:	59	

Project:	South Island Apartments	Project No.	E17-1600
Location:	Starbuck Drive, Green Island, NY		

Well Info

Well #:	MW-32	Well Location:	South of Building 25		
Well Diameter (in):	2	Well Condition:			
A. Total Well Depth (ft bgs):	35.15	Depth to Bedrock (ft):			
B. TOC to Grade (ft):	0	TOC Elevation (ft):			
C. Depth to Water TOC (ft):	26.4	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	8.75	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	1.43	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	4.28	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	8/7/2020	Pump/Method:	Submersible
Purge Start Time:	8:55am	Approx Flow Rate:	1.5 gal/min
Purge Stop Time:	9:15am	Approx Volume Removed:	14 gallons
Did well dry out?	No		

Sampling

			I	II	III	IV	V
Date:	8/7/2020	pH:	7.26	7.15	7.13	7.11	7.05
Time:	9:19am	Temp (ºC):	14.99	14.68	14.44	14.3	14.31
Sample ID:	MW-32/MSD/MS	Conductivity (mS/cm):	1.06	1.09	1.1	1.11	1.11
Sample Method:	Submersible	TDS (g/L):					
		ORP (mV):	-118	-114	-110	-110	-108
		Turbidity (NTU):	88.5	28.1	8.32	3.78	5.29
		DO (mg/L):	11.03	3.70	3.22	3.78	3.35
			(2 gal)	(4 gal)	(7.5 gal)	(10 gal)	(12.5 gal)

Appearance

Oil measurement:
26.1 ft

Comments

7:27 am water level collected
1 MSD SVOC collected "late"

envirospec ENGINEERING, PLLC
349 Northern Blvd
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.689.4800

Well Sampling Field Record

Well No:	MW-33		
Date(s):	8/7/2020		
Weather		Temperature	
		High:	
		Low:	59

Project:	South Island Apartments	Project No.	E17-1600
Location:	Starbuck Drive, Green Island, NY		

Well Info

Well #:	MW-33	Well Location:	South of Building 25		
Well Diameter (in):	2	Well Condition:			
A. Total Well Depth (ft bgs):	36.45	Depth to Bedrock (ft):			
B. TOC to Grade (ft):	0	TOC Elevation (ft):			
C. Depth to Water TOC (ft):	26.6	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	9.85	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	1.61	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	4.82	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	8/7/2020	Pump/Method:	Submersible
Purge Start Time:	7:58am	Approx Flow Rate:	1.5 gal/min
Purge Stop Time:	8:12am	Approx Volume Removed:	11 gallons
Did well dry out?	No		

Sampling

			I	II	III	IV
Date:	8/7/2020	pH:	7.22	7.16	7.16	7.18
Time:	8:20am	Temp (ºC):	16.41	15.73	15.38	15.38
Sample ID:	MW-33	Conductivity (mS/cm):	1.39	1.26	1.25	1.23
Sample Method:	Submersible	TDS (g/L):				
		ORP (mV):	-137	-127	-126	-123
		Turbidity (NTU):	869	11.14	10.19	12.4
		DO (mg/L):	4.4	3.27	3.7	10.2
			(3.5 gal)	(6.5 gal)	(8.7 gal)	(10.20 gal)

Appearance

Oil measurement:
27.35 ft

Comments

DUP collected at MW-33

APPENDIX C
TABLE OF SAMPLE RESULTS

envirospec ENGINEERING, PLLC

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

TABLE 3. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-32 1/16/20	MW-32 5/11/20	MW-32 DUP 5/11/20	MW-32 8/7/20	MW-33 1/16/20	MW-33 DUP 1/16/20	MW-33 5/11/20	MW-33 8/7/20	MW-33 DUP 8/7/20
Total Metals										
Aluminum		3360	556	544	148	5980	5290	18400	1650	695
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	7.4	ND	8.8	ND	ND
Barium	1000	315	312	305	272	269	269	252	196	209
Beryllium		ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron		602	514	512	438	464	466	383	348	349
Cadmium	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium		230000	173000	169000	141000	167000	231000	189000	150000	158000
Chromium	50	7	ND	ND	ND	9.5	9	24.5	ND	ND
Cobalt		ND	ND	ND	ND	ND	ND	10.9	ND	ND
Copper	200	11.5	ND	ND	ND	16.1	16.1	44.2	ND	ND
Iron	300	28500	23600	24000	19200	24500	23300	44000	19200	18700
Lead	25	11.3	ND	ND	ND	19.8	16.9	59.2	9.0	ND
Magnesium		25400	26000	25400	21100	27400	27300	26100	18100	18700
Manganese	300	4810	6060	5930	4910	2140	2150	2130	2220	2450
Molybdenum		ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	ND	ND	ND	ND	ND	ND	27.7	ND	ND
Potassium		10400	9740	9470	8740	28700	28900	24500	16100	16500
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20000	21800	20500	20000	19600	152000	153000	115000	58800	59100
Thallium		ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium		ND	ND	ND	ND	9.8	9	33.9	ND	ND
Zinc		24.3	ND	ND	ND	32.1	27.8	104	12.1	ND
Dissolved Metals										
Aluminum, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony, Dissolved	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic, Dissolved	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium, Dissolved	1000	215	205	193	216	148	156	115	135	140
Beryllium, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron, Dissolved		609	456	479	446	472	472	375	346	348
Cadmium, Dissolved	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium, Dissolved		165000	157000	150000	146000	229000	233000	181000	152000	158000
Chromium, Dissolved	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper, Dissolved	200	ND	ND	ND	ND	ND	ND	7.2	ND	ND
Iron, Dissolved	300	546	1350	1200	1220	321	ND	258	989	1140
Lead, Dissolved	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium, Dissolved		24600	23600	22500	22100	25700	26000	19900	18400	18800
Manganese, Dissolved	300	4800	5500	5220	4990	1780	2010	1780	2350	2300
Molybdenum, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury, Dissolved	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel, Dissolved	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium, Dissolved		9780	8790	8540	8910	28300	28800	21800	15700	16900
Selenium, Dissolved	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver, Dissolved	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, Dissolved	20000	21900	19000	18200	19900	156000	157000	113000	57300	62000
Thallium, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs										
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene		8.2	ND	ND	ND	ND	1.1	ND	ND	ND
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	4.6	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol **(1)**	1	ND	ND	ND	ND	ND	2.7	34.2	ND	ND
2,4-Dinitrophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	2.3	ND	ND	ND	1.7	ND	50.4	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	11.8	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol(o-Cresol)		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol(m&p Cresol)		ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	35.8	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenylphenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	2.2	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	1.9	16.5	ND	ND
4-Chlorophenylphenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	35.8	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		2.6	ND	ND	ND	2.7	ND	ND	ND	21.0
Acenaphthylene		ND	ND	ND	ND	ND	12.7	22.1	ND	ND
Anthracene		1.4	ND	ND	ND	ND	12.8	88.3	ND	13.5
Azobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol		ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl) ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl) ether	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	5	1.1	ND	ND	ND	2.4	1.9	ND	ND	ND
Butylbenzylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND	1.7	15.5	ND	ND
Dibenz(a,h)anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		1.2	ND	ND	ND	2.0	7.6	ND	ND	15.0
Diethylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate		ND	ND	ND	ND	ND	ND	20	ND	ND
Di-n-butylphthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND

Couch White
Green Island, NY

Prepared By: Envirospec Engineering, PLLC.

TABLE 3. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-32 1/16/20	MW-32 5/11/20	MW-32 DUP 5/11/20	MW-32 8/7/20	MW-33 1/16/20	MW-33 DUP 1/16/20	MW-33 5/11/20	MW-33 8/7/20	MW-33 DUP 8/7/20
Di-n-octylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND	1.9	ND	ND	ND
Fluorene		4.1	ND	ND	ND	4.2	5.5	ND	ND	36.4
Hexachloro-1,3-butadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND	1.7	ND	ND	ND
Nitrobenzene	0.4	1.3	ND	ND	ND	ND	3.2	31.4	ND	ND
N-Nitrosodimethylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		3.7	ND	ND	ND	2.1	4.6	95.6	ND	ND
Pentachlorophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		3.6	ND	ND	ND	3.6	ND	ND	ND	20.8
Phenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND	3.9	ND	ND	15.8

(1) Based on total phenols standard
(2) All results in ppb.
(3) Exceedances of Part 703 Groundwater A Standard in RED

APPENDIX D
LABORATORY ANALYTICAL RESULTS

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204
A Woman Owned Business Enterprise (WBE)

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 17, 2020

Ms. Rachel Farnum
Envirospec Engineering
349 Northern Blvd #3
Albany, NY 12204

RE: Project: Green Island
Pace Project No.: 30376571

Dear Ms. Farnum:

Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

cc: Mr. Adam Schultz, Couch White

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Green Island
Pace Project No.: 30376571

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: Green Island
Pace Project No.: 30376571

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30376571001	**MW-33**	Water	08/07/20 08:20	08/08/20 11:00
30376571002	**DUP**	Water	08/07/20 08:20	08/08/20 11:00
30376571003	**MW-32**	Water	08/07/20 09:19	08/08/20 11:00

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Green Island
Pace Project No.: 30376571

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30376571001	**MW-33**	EPA 6010C	CTS	24	PASI-PA
		EPA 6010C	CTS	24	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 8270D	EAC	75	PASI-PA
30376571002	**DUP**	EPA 6010C	CTS	24	PASI-PA
		EPA 6010C	CTS	24	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 8270D	EAC	75	PASI-PA
30376571003	**MW-32**	EPA 6010C	CTS	24	PASI-PA
		EPA 6010C	CTS	24	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 8270D	EAC	75	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30376571

Method: **EPA 6010C**
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: August 17, 2020

General Information:
3 samples were analyzed for EPA 6010C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 409014

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30376571003

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1979745)
  - Calcium

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 409014

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1979744)
  - Aluminum

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30376571

Method: **EPA 6010C**
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: August 17, 2020

Analyte Comments:

QC Batch: 409014

2c: The PDS recovery was outside of the laboratory control limits. Result may be biased low.

- MW-32 (Lab ID: 30376571003)
  - Calcium
  - Magnesium
  - Manganese
  - Sodium

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30376571

Method: **EPA 6010C**
Description: 6010C MET ICP, Lab Filtered
Client: Envirospec Engineering
Date: August 17, 2020

General Information:
3 samples were analyzed for EPA 6010C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 409013

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30376571003

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1979740)
  - Calcium, Dissolved
- MSD (Lab ID: 1979741)
  - Calcium, Dissolved
  - Magnesium, Dissolved
  - Manganese, Dissolved
  - Sodium, Dissolved

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30376571

Method: **EPA 6010C**
Description: 6010C MET ICP, Lab Filtered
Client: Envirospec Engineering
Date: August 17, 2020

Analyte Comments:

QC Batch: 409013

2c: The PDS recovery was outside of the laboratory control limits. Result may be biased low.

- MW-32 (Lab ID: 30376571003)
  - Calcium, Dissolved
  - Magnesium, Dissolved

- MW-33 (Lab ID: 30376571001)
  - Manganese, Dissolved

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30376571

Method: **EPA 7470A**
Description: 7470 Mercury
Client: Envirospec Engineering
Date: August 17, 2020

General Information:
3 samples were analyzed for EPA 7470A by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 408666

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30375991006,30376571003

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1977863)
  - Mercury

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 408666

1c: The PDS recovery was outside of the laboratory control limits. Result may be biased high

- MW-32 (Lab ID: 30376571003)
  - Mercury

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30376571

Method: **EPA 7470A**
Description: 7470 Mercury, Lab Filtered
Client: Envirospec Engineering
Date: August 17, 2020

General Information:
3 samples were analyzed for EPA 7470A by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 409153

1c: The PDS recovery was outside of the laboratory control limits. Result may be biased high

- MW-32 (Lab ID: 30376571003)
  - Mercury, Dissolved

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30376571

Method: **EPA 8270D**
Description: 8270D MSSV Organics
Client: Envirospec Engineering
Date: August 17, 2020

General Information:
3 samples were analyzed for EPA 8270D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

ED: Due to the extract's physical characteristics, the analysis was performed at dilution.
- DUP (Lab ID: 30376571002)
- MW-33 (Lab ID: 30376571001)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 408776

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- DUP (Lab ID: 30376571002)
  - Nitrobenzene-d5 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 408776

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- LCS (Lab ID: 1978282)
  - Benzoic acid
  - Pentachlorophenol

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30376571

Method: **EPA 8270D**
Description: 8270D MSSV Organics
Client: Envirospec Engineering
Date: August 17, 2020

QC Batch: 408776

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1978282)
  - 3,3'-Dichlorobenzidine

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 408776

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30376571003

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1978283)
  - 3,3'-Dichlorobenzidine
  - 4-Nitrophenol
- MSD (Lab ID: 1978284)
  - 3,3'-Dichlorobenzidine
  - 4-Nitrophenol

Additional Comments:

Analyte Comments:

QC Batch: 408776

3c: The read back of the low concentration calibration standard for this compound is not within 30% of the true value. The results may be biased high and should be considered estimated.

- BLANK (Lab ID: 1978281)
  - Di-n-octylphthalate
- DUP (Lab ID: 30376571002)
  - Di-n-octylphthalate
- LCS (Lab ID: 1978282)
  - Di-n-octylphthalate
- MS (Lab ID: 1978283)
  - Di-n-octylphthalate
- MSD (Lab ID: 1978284)
  - Di-n-octylphthalate
- MW-32 (Lab ID: 30376571003)
  - Di-n-octylphthalate
- MW-33 (Lab ID: 30376571001)
  - Di-n-octylphthalate

4c: The read back of the low concentration calibration standard for this compound is not within 30% of the true value. The results may be biased low and should be considered estimated.

- BLANK (Lab ID: 1978281)
  - Benzoic acid
- DUP (Lab ID: 30376571002)
  - Benzoic acid

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30376571

Method: **EPA 8270D**
Description: 8270D MSSV Organics
Client: Envirospec Engineering
Date: August 17, 2020

Analyte Comments:

QC Batch: 408776

4c: The read back of the low concentration calibration standard for this compound is not within 30% of the true value. The results may be biased low and should be considered estimated.

- LCS (Lab ID: 1978282)
  - Benzoic acid
- MS (Lab ID: 1978283)
  - Benzoic acid
- MSD (Lab ID: 1978284)
  - Benzoic acid
- MW-32 (Lab ID: 30376571003)
  - Benzoic acid
- MW-33 (Lab ID: 30376571001)
  - Benzoic acid

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: MW-33 **Lab ID: 30376571001** Collected: 08/07/20 08:20 Received: 08/08/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Aluminum	**1650**	ug/L	50.0	20.3	1	08/12/20 09:01	08/17/20 10:26	7429-90-5	
Antimony	ND	ug/L	6.0	3.3	1	08/12/20 09:01	08/17/20 10:26	7440-36-0	
Arsenic	ND	ug/L	5.0	2.0	1	08/12/20 09:01	08/17/20 10:26	7440-38-2	
Barium	**196**	ug/L	10.0	0.68	1	08/12/20 09:01	08/17/20 10:26	7440-39-3	
Beryllium	ND	ug/L	1.0	0.17	1	08/12/20 09:01	08/17/20 10:26	7440-41-7	
Boron	**348**	ug/L	50.0	2.3	1	08/12/20 09:01	08/17/20 10:26	7440-42-8	
Cadmium	ND	ug/L	3.0	0.34	1	08/12/20 09:01	08/17/20 10:26	7440-43-9	
Calcium	**150000**	ug/L	1000	99.9	1	08/12/20 09:01	08/17/20 10:26	7440-70-2	
Chromium	ND	ug/L	5.0	0.35	1	08/12/20 09:01	08/17/20 10:26	7440-47-3	
Cobalt	ND	ug/L	5.0	0.53	1	08/12/20 09:01	08/17/20 10:26	7440-48-4	
Copper	ND	ug/L	5.0	2.7	1	08/12/20 09:01	08/17/20 10:26	7440-50-8	
Iron	**19200**	ug/L	70.0	40.9	1	08/12/20 09:01	08/17/20 10:26	7439-89-6	
Lead	**9.0**	ug/L	5.0	4.9	1	08/12/20 09:01	08/17/20 10:26	7439-92-1	
Magnesium	**18100**	ug/L	200	28.4	1	08/12/20 09:01	08/17/20 10:26	7439-95-4	
Manganese	**2220**	ug/L	5.0	1.2	1	08/12/20 09:01	08/17/20 10:26	7439-96-5	
Molybdenum	ND	ug/L	20.0	0.85	1	08/12/20 09:01	08/17/20 10:26	7439-98-7	
Nickel	ND	ug/L	10.0	1.5	1	08/12/20 09:01	08/17/20 10:26	7440-02-0	
Potassium	**16100**	ug/L	500	72.4	1	08/12/20 09:01	08/17/20 10:26	7440-09-7	
Selenium	ND	ug/L	8.0	5.5	1	08/12/20 09:01	08/17/20 10:26	7782-49-2	
Silver	ND	ug/L	6.0	1.4	1	08/12/20 09:01	08/17/20 10:26	7440-22-4	
Sodium	**58800**	ug/L	1000	423	1	08/12/20 09:01	08/17/20 10:26	7440-23-5	
Thallium	ND	ug/L	10.0	4.0	1	08/12/20 09:01	08/17/20 10:26	7440-28-0	
Vanadium	ND	ug/L	5.0	0.57	1	08/12/20 09:01	08/17/20 10:26	7440-62-2	
Zinc	**12.1**	ug/L	10.0	2.4	1	08/12/20 09:01	08/17/20 10:26	7440-66-6	
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Aluminum, Dissolved	**63.8**	ug/L	50.0	20.3	1	08/12/20 08:59	08/17/20 09:57	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.3	1	08/12/20 08:59	08/17/20 09:57	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.0	1	08/12/20 08:59	08/17/20 09:57	7440-38-2	B
Barium, Dissolved	**135**	ug/L	10.0	0.68	1	08/12/20 08:59	08/17/20 09:57	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	1.0	0.17	1	08/12/20 08:59	08/17/20 09:57	7440-41-7	
Boron, Dissolved	**346**	ug/L	50.0	2.3	1	08/12/20 08:59	08/17/20 09:57	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.34	1	08/12/20 08:59	08/17/20 09:57	7440-43-9	
Calcium, Dissolved	**152000**	ug/L	1000	99.9	1	08/12/20 08:59	08/17/20 09:57	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.35	1	08/12/20 08:59	08/17/20 09:57	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.53	1	08/12/20 08:59	08/17/20 09:57	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	2.7	1	08/12/20 08:59	08/17/20 09:57	7440-50-8	
Iron, Dissolved	**989**	ug/L	70.0	40.9	1	08/12/20 08:59	08/17/20 09:57	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	4.9	1	08/12/20 08:59	08/17/20 09:57	7439-92-1	
Magnesium, Dissolved	**18400**	ug/L	200	28.4	1	08/12/20 08:59	08/17/20 09:57	7439-95-4	
Manganese, Dissolved	**2350**	ug/L	5.0	1.2	1	08/12/20 08:59	08/17/20 09:57	7439-96-5	B
Molybdenum, Dissolved	ND	ug/L	20.0	0.85	1	08/12/20 08:59	08/17/20 09:57	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.5	1	08/12/20 08:59	08/17/20 09:57	7440-02-0	
Potassium, Dissolved	**15700**	ug/L	500	72.4	1	08/12/20 08:59	08/17/20 09:57	7440-09-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: MW-33 **Lab ID: 30376571001** Collected: 08/07/20 08:20 Received: 08/08/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Selenium, Dissolved	ND	ug/L	8.0	5.5	1	08/12/20 08:59	08/17/20 09:57	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	1.4	1	08/12/20 08:59	08/17/20 09:57	7440-22-4	
Sodium, Dissolved	**57300**	ug/L	1000	423	1	08/12/20 08:59	08/17/20 09:57	7440-23-5	
Thallium, Dissolved	ND	ug/L	10.0	4.0	1	08/12/20 08:59	08/17/20 09:57	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.57	1	08/12/20 08:59	08/17/20 09:57	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	2.4	1	08/12/20 08:59	08/17/20 09:57	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury	ND	ug/L	0.20	0.030	1	08/10/20 10:55	08/10/20 18:22	7439-97-6	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	08/12/20 15:00	08/12/20 22:36	7439-97-6	
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	9.8	3.8	10	08/11/20 08:31	08/12/20 19:27	83-32-9	ED
Acenaphthylene	ND	ug/L	9.8	3.7	10	08/11/20 08:31	08/12/20 19:27	208-96-8	ED
Anthracene	ND	ug/L	9.8	2.6	10	08/11/20 08:31	08/12/20 19:27	120-12-7	ED
Azobenzene	ND	ug/L	9.8	3.5	10	08/11/20 08:31	08/12/20 19:27	103-33-3	ED
Benzo(a)anthracene	ND	ug/L	9.8	2.0	10	08/11/20 08:31	08/12/20 19:27	56-55-3	ED
Benzo(a)pyrene	ND	ug/L	9.8	1.8	10	08/11/20 08:31	08/12/20 19:27	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/L	9.8	2.3	10	08/11/20 08:31	08/12/20 19:27	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/L	9.8	2.9	10	08/11/20 08:31	08/12/20 19:27	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/L	9.8	2.5	10	08/11/20 08:31	08/12/20 19:27	207-08-9	ED
Benzoic acid	ND	ug/L	147	27.5	10	08/11/20 08:31	08/12/20 19:27	65-85-0	4c,ED, L1
Benzyl alcohol	ND	ug/L	9.8	6.9	10	08/11/20 08:31	08/12/20 19:27	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/L	9.8	3.8	10	08/11/20 08:31	08/12/20 19:27	101-55-3	ED
Butylbenzylphthalate	ND	ug/L	9.8	2.9	10	08/11/20 08:31	08/12/20 19:27	85-68-7	ED
Carbazole	ND	ug/L	9.8	2.3	10	08/11/20 08:31	08/12/20 19:27	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/L	9.8	4.3	10	08/11/20 08:31	08/12/20 19:27	59-50-7	ED
4-Chloroaniline	ND	ug/L	9.8	2.1	10	08/11/20 08:31	08/12/20 19:27	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/L	9.8	3.5	10	08/11/20 08:31	08/12/20 19:27	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/L	9.8	4.0	10	08/11/20 08:31	08/12/20 19:27	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/L	9.8	4.0	10	08/11/20 08:31	08/12/20 19:27	108-60-1	ED
2-Chloronaphthalene	ND	ug/L	9.8	3.3	10	08/11/20 08:31	08/12/20 19:27	91-58-7	ED
2-Chlorophenol	ND	ug/L	9.8	3.2	10	08/11/20 08:31	08/12/20 19:27	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/L	9.8	3.6	10	08/11/20 08:31	08/12/20 19:27	7005-72-3	ED
Chrysene	ND	ug/L	9.8	2.0	10	08/11/20 08:31	08/12/20 19:27	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/L	9.8	3.1	10	08/11/20 08:31	08/12/20 19:27	53-70-3	ED
Dibenzofuran	ND	ug/L	9.8	3.6	10	08/11/20 08:31	08/12/20 19:27	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/L	9.8	3.4	10	08/11/20 08:31	08/12/20 19:27	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/L	9.8	2.9	10	08/11/20 08:31	08/12/20 19:27	541-73-1	ED

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: MW-33 **Lab ID: 30376571001** Collected: 08/07/20 08:20 Received: 08/08/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
1,4-Dichlorobenzene	ND	ug/L	9.8	2.7	10	08/11/20 08:31	08/12/20 19:27	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/L	9.8	2.2	10	08/11/20 08:31	08/12/20 19:27	91-94-1	ED,L2
2,4-Dichlorophenol	ND	ug/L	9.8	3.3	10	08/11/20 08:31	08/12/20 19:27	120-83-2	ED
Diethylphthalate	ND	ug/L	9.8	3.6	10	08/11/20 08:31	08/12/20 19:27	84-66-2	ED
2,4-Dimethylphenol	ND	ug/L	9.8	3.5	10	08/11/20 08:31	08/12/20 19:27	105-67-9	ED
Dimethylphthalate	ND	ug/L	9.8	4.3	10	08/11/20 08:31	08/12/20 19:27	131-11-3	ED
Di-n-butylphthalate	ND	ug/L	9.8	3.1	10	08/11/20 08:31	08/12/20 19:27	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/L	24.5	6.3	10	08/11/20 08:31	08/12/20 19:27	534-52-1	ED
2,4-Dinitrophenol	ND	ug/L	24.5	5.7	10	08/11/20 08:31	08/12/20 19:27	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/L	9.8	3.5	10	08/11/20 08:31	08/12/20 19:27	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/L	9.8	4.0	10	08/11/20 08:31	08/12/20 19:27	606-20-2	ED
Di-n-octylphthalate	ND	ug/L	9.8	2.6	10	08/11/20 08:31	08/12/20 19:27	117-84-0	3c,ED
bis(2-Ethylhexyl)phthalate	ND	ug/L	9.8	3.5	10	08/11/20 08:31	08/12/20 19:27	117-81-7	ED
Fluoranthene	ND	ug/L	9.8	2.3	10	08/11/20 08:31	08/12/20 19:27	206-44-0	ED
Fluorene	ND	ug/L	9.8	3.6	10	08/11/20 08:31	08/12/20 19:27	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/L	9.8	3.2	10	08/11/20 08:31	08/12/20 19:27	87-68-3	ED
Hexachlorobenzene	ND	ug/L	9.8	3.0	10	08/11/20 08:31	08/12/20 19:27	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/L	9.8	1.9	10	08/11/20 08:31	08/12/20 19:27	77-47-4	ED
Hexachloroethane	ND	ug/L	9.8	3.0	10	08/11/20 08:31	08/12/20 19:27	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/L	9.8	3.0	10	08/11/20 08:31	08/12/20 19:27	193-39-5	ED
Isophorone	ND	ug/L	9.8	5.6	10	08/11/20 08:31	08/12/20 19:27	78-59-1	ED
1-Methylnaphthalene	ND	ug/L	9.8	3.5	10	08/11/20 08:31	08/12/20 19:27	90-12-0	ED
2-Methylnaphthalene	ND	ug/L	9.8	3.4	10	08/11/20 08:31	08/12/20 19:27	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/L	9.8	3.6	10	08/11/20 08:31	08/12/20 19:27	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/L	19.6	18.6	10	08/11/20 08:31	08/12/20 19:27		ED
Naphthalene	ND	ug/L	9.8	3.4	10	08/11/20 08:31	08/12/20 19:27	91-20-3	ED
2-Nitroaniline	ND	ug/L	24.5	7.0	10	08/11/20 08:31	08/12/20 19:27	88-74-4	ED
3-Nitroaniline	ND	ug/L	24.5	9.4	10	08/11/20 08:31	08/12/20 19:27	99-09-2	ED
4-Nitroaniline	ND	ug/L	24.5	18.2	10	08/11/20 08:31	08/12/20 19:27	100-01-6	ED
Nitrobenzene	ND	ug/L	9.8	3.7	10	08/11/20 08:31	08/12/20 19:27	98-95-3	ED
2-Nitrophenol	ND	ug/L	9.8	3.4	10	08/11/20 08:31	08/12/20 19:27	88-75-5	ED
4-Nitrophenol	ND	ug/L	9.8	7.5	10	08/11/20 08:31	08/12/20 19:27	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/L	9.8	2.5	10	08/11/20 08:31	08/12/20 19:27	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/L	9.8	5.3	10	08/11/20 08:31	08/12/20 19:27	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/L	9.8	2.5	10	08/11/20 08:31	08/12/20 19:27	86-30-6	ED
Pentachlorophenol	ND	ug/L	24.5	10.3	10	08/11/20 08:31	08/12/20 19:27	87-86-5	ED,L1
Phenanthrene	ND	ug/L	9.8	3.3	10	08/11/20 08:31	08/12/20 19:27	85-01-8	ED
Phenol	ND	ug/L	9.8	2.2	10	08/11/20 08:31	08/12/20 19:27	108-95-2	ED
Pyrene	ND	ug/L	9.8	3.0	10	08/11/20 08:31	08/12/20 19:27	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/L	9.8	3.1	10	08/11/20 08:31	08/12/20 19:27	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/L	24.5	6.6	10	08/11/20 08:31	08/12/20 19:27	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/L	9.8	3.6	10	08/11/20 08:31	08/12/20 19:27	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	91	%.	10-140		10	08/11/20 08:31	08/12/20 19:27	4165-60-0	
2-Fluorobiphenyl (S)	61	%.	10-135		10	08/11/20 08:31	08/12/20 19:27	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: MW-33 **Lab ID: 30376571001** Collected: 08/07/20 08:20 Received: 08/08/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Surrogates									
Terphenyl-d14 (S)	82	%.	10-128		10	08/11/20 08:31	08/12/20 19:27	1718-51-0	
Phenol-d6 (S)	19	%.	10-145		10	08/11/20 08:31	08/12/20 19:27	13127-88-3	
2-Fluorophenol (S)	26	%.	10-142		10	08/11/20 08:31	08/12/20 19:27	367-12-4	
2,4,6-Tribromophenol (S)	88	%.	10-140		10	08/11/20 08:31	08/12/20 19:27	118-79-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: DUP **Lab ID: 30376571002** Collected: 08/07/20 08:20 Received: 08/08/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Aluminum	**695**	ug/L	50.0	20.3	1	08/12/20 09:01	08/17/20 10:29	7429-90-5	
Antimony	ND	ug/L	6.0	3.3	1	08/12/20 09:01	08/17/20 10:29	7440-36-0	
Arsenic	ND	ug/L	5.0	2.0	1	08/12/20 09:01	08/17/20 10:29	7440-38-2	
Barium	**209**	ug/L	10.0	0.68	1	08/12/20 09:01	08/17/20 10:29	7440-39-3	
Beryllium	ND	ug/L	1.0	0.17	1	08/12/20 09:01	08/17/20 10:29	7440-41-7	
Boron	**349**	ug/L	50.0	2.3	1	08/12/20 09:01	08/17/20 10:29	7440-42-8	
Cadmium	ND	ug/L	3.0	0.34	1	08/12/20 09:01	08/17/20 10:29	7440-43-9	
Calcium	**158000**	ug/L	1000	99.9	1	08/12/20 09:01	08/17/20 10:29	7440-70-2	
Chromium	ND	ug/L	5.0	0.35	1	08/12/20 09:01	08/17/20 10:29	7440-47-3	
Cobalt	ND	ug/L	5.0	0.53	1	08/12/20 09:01	08/17/20 10:29	7440-48-4	
Copper	ND	ug/L	5.0	2.7	1	08/12/20 09:01	08/17/20 10:29	7440-50-8	
Iron	**18700**	ug/L	70.0	40.9	1	08/12/20 09:01	08/17/20 10:29	7439-89-6	
Lead	ND	ug/L	5.0	4.9	1	08/12/20 09:01	08/17/20 10:29	7439-92-1	
Magnesium	**18700**	ug/L	200	28.4	1	08/12/20 09:01	08/17/20 10:29	7439-95-4	
Manganese	**2450**	ug/L	5.0	1.2	1	08/12/20 09:01	08/17/20 10:29	7439-96-5	
Molybdenum	ND	ug/L	20.0	0.85	1	08/12/20 09:01	08/17/20 10:29	7439-98-7	
Nickel	ND	ug/L	10.0	1.5	1	08/12/20 09:01	08/17/20 10:29	7440-02-0	
Potassium	**16500**	ug/L	500	72.4	1	08/12/20 09:01	08/17/20 10:29	7440-09-7	
Selenium	ND	ug/L	8.0	5.5	1	08/12/20 09:01	08/17/20 10:29	7782-49-2	
Silver	ND	ug/L	6.0	1.4	1	08/12/20 09:01	08/17/20 10:29	7440-22-4	
Sodium	**59100**	ug/L	1000	423	1	08/12/20 09:01	08/17/20 10:29	7440-23-5	
Thallium	ND	ug/L	10.0	4.0	1	08/12/20 09:01	08/17/20 10:29	7440-28-0	
Vanadium	ND	ug/L	5.0	0.57	1	08/12/20 09:01	08/17/20 10:29	7440-62-2	
Zinc	ND	ug/L	10.0	2.4	1	08/12/20 09:01	08/17/20 10:29	7440-66-6	
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Aluminum, Dissolved	**59.3**	ug/L	50.0	20.3	1	08/12/20 08:59	08/17/20 09:59	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.3	1	08/12/20 08:59	08/17/20 09:59	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.0	1	08/12/20 08:59	08/17/20 09:59	7440-38-2	B
Barium, Dissolved	**140**	ug/L	10.0	0.68	1	08/12/20 08:59	08/17/20 09:59	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	1.0	0.17	1	08/12/20 08:59	08/17/20 09:59	7440-41-7	
Boron, Dissolved	**348**	ug/L	50.0	2.3	1	08/12/20 08:59	08/17/20 09:59	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.34	1	08/12/20 08:59	08/17/20 09:59	7440-43-9	
Calcium, Dissolved	**158000**	ug/L	1000	99.9	1	08/12/20 08:59	08/17/20 09:59	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.35	1	08/12/20 08:59	08/17/20 09:59	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.53	1	08/12/20 08:59	08/17/20 09:59	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	2.7	1	08/12/20 08:59	08/17/20 09:59	7440-50-8	
Iron, Dissolved	**1140**	ug/L	70.0	40.9	1	08/12/20 08:59	08/17/20 09:59	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	4.9	1	08/12/20 08:59	08/17/20 09:59	7439-92-1	
Magnesium, Dissolved	**18800**	ug/L	200	28.4	1	08/12/20 08:59	08/17/20 09:59	7439-95-4	
Manganese, Dissolved	**2300**	ug/L	5.0	1.2	1	08/12/20 08:59	08/17/20 09:59	7439-96-5	B
Molybdenum, Dissolved	ND	ug/L	20.0	0.85	1	08/12/20 08:59	08/17/20 09:59	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.5	1	08/12/20 08:59	08/17/20 09:59	7440-02-0	
Potassium, Dissolved	**16900**	ug/L	500	72.4	1	08/12/20 08:59	08/17/20 09:59	7440-09-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: DUP **Lab ID: 30376571002** Collected: 08/07/20 08:20 Received: 08/08/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Selenium, Dissolved	ND	ug/L	8.0	5.5	1	08/12/20 08:59	08/17/20 09:59	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	1.4	1	08/12/20 08:59	08/17/20 09:59	7440-22-4	
Sodium, Dissolved	**62000**	ug/L	1000	423	1	08/12/20 08:59	08/17/20 09:59	7440-23-5	
Thallium, Dissolved	ND	ug/L	10.0	4.0	1	08/12/20 08:59	08/17/20 09:59	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.57	1	08/12/20 08:59	08/17/20 09:59	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	2.4	1	08/12/20 08:59	08/17/20 09:59	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury	ND	ug/L	0.20	0.030	1	08/10/20 10:55	08/10/20 18:28	7439-97-6	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	08/12/20 15:00	08/12/20 22:38	7439-97-6	
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**21.0**	ug/L	9.9	3.9	10	08/11/20 08:31	08/12/20 19:50	83-32-9	ED
Acenaphthylene	ND	ug/L	9.9	3.8	10	08/11/20 08:31	08/12/20 19:50	208-96-8	ED
Anthracene	**13.5**	ug/L	9.9	2.6	10	08/11/20 08:31	08/12/20 19:50	120-12-7	ED
Azobenzene	ND	ug/L	9.9	3.5	10	08/11/20 08:31	08/12/20 19:50	103-33-3	ED
Benzo(a)anthracene	ND	ug/L	9.9	2.0	10	08/11/20 08:31	08/12/20 19:50	56-55-3	ED
Benzo(a)pyrene	ND	ug/L	9.9	1.8	10	08/11/20 08:31	08/12/20 19:50	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/L	9.9	2.3	10	08/11/20 08:31	08/12/20 19:50	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/L	9.9	2.9	10	08/11/20 08:31	08/12/20 19:50	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/L	9.9	2.5	10	08/11/20 08:31	08/12/20 19:50	207-08-9	ED
Benzoic acid	ND	ug/L	149	27.8	10	08/11/20 08:31	08/12/20 19:50	65-85-0	4c,ED, L1
Benzyl alcohol	ND	ug/L	9.9	6.9	10	08/11/20 08:31	08/12/20 19:50	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/L	9.9	3.9	10	08/11/20 08:31	08/12/20 19:50	101-55-3	ED
Butylbenzylphthalate	ND	ug/L	9.9	2.9	10	08/11/20 08:31	08/12/20 19:50	85-68-7	ED
Carbazole	ND	ug/L	9.9	2.3	10	08/11/20 08:31	08/12/20 19:50	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/L	9.9	4.3	10	08/11/20 08:31	08/12/20 19:50	59-50-7	ED
4-Chloroaniline	ND	ug/L	9.9	2.1	10	08/11/20 08:31	08/12/20 19:50	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/L	9.9	3.5	10	08/11/20 08:31	08/12/20 19:50	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/L	9.9	4.1	10	08/11/20 08:31	08/12/20 19:50	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/L	9.9	4.0	10	08/11/20 08:31	08/12/20 19:50	108-60-1	ED
2-Chloronaphthalene	ND	ug/L	9.9	3.3	10	08/11/20 08:31	08/12/20 19:50	91-58-7	ED
2-Chlorophenol	ND	ug/L	9.9	3.2	10	08/11/20 08:31	08/12/20 19:50	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/L	9.9	3.6	10	08/11/20 08:31	08/12/20 19:50	7005-72-3	ED
Chrysene	ND	ug/L	9.9	2.0	10	08/11/20 08:31	08/12/20 19:50	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/L	9.9	3.1	10	08/11/20 08:31	08/12/20 19:50	53-70-3	ED
Dibenzofuran	**15.0**	ug/L	9.9	3.6	10	08/11/20 08:31	08/12/20 19:50	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/L	9.9	3.4	10	08/11/20 08:31	08/12/20 19:50	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/L	9.9	3.0	10	08/11/20 08:31	08/12/20 19:50	541-73-1	ED

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: DUP **Lab ID: 30376571002** Collected: 08/07/20 08:20 Received: 08/08/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
1,4-Dichlorobenzene	ND	ug/L	9.9	2.7	10	08/11/20 08:31	08/12/20 19:50	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/L	9.9	2.2	10	08/11/20 08:31	08/12/20 19:50	91-94-1	ED,L2
2,4-Dichlorophenol	ND	ug/L	9.9	3.3	10	08/11/20 08:31	08/12/20 19:50	120-83-2	ED
Diethylphthalate	ND	ug/L	9.9	3.6	10	08/11/20 08:31	08/12/20 19:50	84-66-2	ED
2,4-Dimethylphenol	ND	ug/L	9.9	3.6	10	08/11/20 08:31	08/12/20 19:50	105-67-9	ED
Dimethylphthalate	ND	ug/L	9.9	4.3	10	08/11/20 08:31	08/12/20 19:50	131-11-3	ED
Di-n-butylphthalate	ND	ug/L	9.9	3.2	10	08/11/20 08:31	08/12/20 19:50	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/L	24.8	6.3	10	08/11/20 08:31	08/12/20 19:50	534-52-1	ED
2,4-Dinitrophenol	ND	ug/L	24.8	5.8	10	08/11/20 08:31	08/12/20 19:50	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/L	9.9	3.5	10	08/11/20 08:31	08/12/20 19:50	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/L	9.9	4.0	10	08/11/20 08:31	08/12/20 19:50	606-20-2	ED
Di-n-octylphthalate	ND	ug/L	9.9	2.7	10	08/11/20 08:31	08/12/20 19:50	117-84-0	3c,ED
bis(2-Ethylhexyl)phthalate	ND	ug/L	9.9	3.6	10	08/11/20 08:31	08/12/20 19:50	117-81-7	ED
Fluoranthene	ND	ug/L	9.9	2.3	10	08/11/20 08:31	08/12/20 19:50	206-44-0	ED
Fluorene	**36.4**	ug/L	9.9	3.7	10	08/11/20 08:31	08/12/20 19:50	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/L	9.9	3.3	10	08/11/20 08:31	08/12/20 19:50	87-68-3	ED
Hexachlorobenzene	ND	ug/L	9.9	3.0	10	08/11/20 08:31	08/12/20 19:50	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/L	9.9	1.9	10	08/11/20 08:31	08/12/20 19:50	77-47-4	ED
Hexachloroethane	ND	ug/L	9.9	3.0	10	08/11/20 08:31	08/12/20 19:50	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/L	9.9	3.0	10	08/11/20 08:31	08/12/20 19:50	193-39-5	ED
Isophorone	ND	ug/L	9.9	5.7	10	08/11/20 08:31	08/12/20 19:50	78-59-1	ED
1-Methylnaphthalene	ND	ug/L	9.9	3.6	10	08/11/20 08:31	08/12/20 19:50	90-12-0	ED
2-Methylnaphthalene	ND	ug/L	9.9	3.4	10	08/11/20 08:31	08/12/20 19:50	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/L	9.9	3.6	10	08/11/20 08:31	08/12/20 19:50	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/L	19.8	18.8	10	08/11/20 08:31	08/12/20 19:50		ED
Naphthalene	ND	ug/L	9.9	3.5	10	08/11/20 08:31	08/12/20 19:50	91-20-3	ED
2-Nitroaniline	ND	ug/L	24.8	7.1	10	08/11/20 08:31	08/12/20 19:50	88-74-4	ED
3-Nitroaniline	ND	ug/L	24.8	9.5	10	08/11/20 08:31	08/12/20 19:50	99-09-2	ED
4-Nitroaniline	ND	ug/L	24.8	18.4	10	08/11/20 08:31	08/12/20 19:50	100-01-6	ED
Nitrobenzene	ND	ug/L	9.9	3.7	10	08/11/20 08:31	08/12/20 19:50	98-95-3	ED
2-Nitrophenol	ND	ug/L	9.9	3.5	10	08/11/20 08:31	08/12/20 19:50	88-75-5	ED
4-Nitrophenol	ND	ug/L	9.9	7.5	10	08/11/20 08:31	08/12/20 19:50	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/L	9.9	2.6	10	08/11/20 08:31	08/12/20 19:50	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/L	9.9	5.3	10	08/11/20 08:31	08/12/20 19:50	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/L	9.9	2.5	10	08/11/20 08:31	08/12/20 19:50	86-30-6	ED
Pentachlorophenol	ND	ug/L	24.8	10.4	10	08/11/20 08:31	08/12/20 19:50	87-86-5	ED,L1
Phenanthrene	**20.8**	ug/L	9.9	3.4	10	08/11/20 08:31	08/12/20 19:50	85-01-8	ED
Phenol	ND	ug/L	9.9	2.2	10	08/11/20 08:31	08/12/20 19:50	108-95-2	ED
Pyrene	**15.8**	ug/L	9.9	3.0	10	08/11/20 08:31	08/12/20 19:50	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/L	9.9	3.1	10	08/11/20 08:31	08/12/20 19:50	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/L	24.8	6.6	10	08/11/20 08:31	08/12/20 19:50	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/L	9.9	3.6	10	08/11/20 08:31	08/12/20 19:50	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	255	%.	10-140		10	08/11/20 08:31	08/12/20 19:50	4165-60-0	S4
2-Fluorobiphenyl (S)	99	%.	10-135		10	08/11/20 08:31	08/12/20 19:50	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: DUP **Lab ID: 30376571002** Collected: 08/07/20 08:20 Received: 08/08/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Surrogates									
Terphenyl-d14 (S)	86	%.	10-128		10	08/11/20 08:31	08/12/20 19:50	1718-51-0	
Phenol-d6 (S)	27	%.	10-145		10	08/11/20 08:31	08/12/20 19:50	13127-88-3	
2-Fluorophenol (S)	32	%.	10-142		10	08/11/20 08:31	08/12/20 19:50	367-12-4	
2,4,6-Tribromophenol (S)	116	%.	10-140		10	08/11/20 08:31	08/12/20 19:50	118-79-6	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: MW-32 **Lab ID: 30376571003** Collected: 08/07/20 09:19 Received: 08/08/20 11:00 Matrix: Water

Comments: • Sample ID on one container does not match COC. Collection time matches

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Aluminum	**148**	ug/L	50.0	20.3	1	08/12/20 09:01	08/17/20 10:14	7429-90-5	D6
Antimony	ND	ug/L	6.0	3.3	1	08/12/20 09:01	08/17/20 10:14	7440-36-0	
Arsenic	ND	ug/L	5.0	2.0	1	08/12/20 09:01	08/17/20 10:14	7440-38-2	
Barium	**272**	ug/L	10.0	0.68	1	08/12/20 09:01	08/17/20 10:14	7440-39-3	
Beryllium	ND	ug/L	1.0	0.17	1	08/12/20 09:01	08/17/20 10:14	7440-41-7	
Boron	**438**	ug/L	50.0	2.3	1	08/12/20 09:01	08/17/20 10:14	7440-42-8	
Cadmium	ND	ug/L	3.0	0.34	1	08/12/20 09:01	08/17/20 10:14	7440-43-9	
Calcium	**141000**	ug/L	1000	99.9	1	08/12/20 09:01	08/17/20 10:14	7440-70-2	2c,ML
Chromium	ND	ug/L	5.0	0.35	1	08/12/20 09:01	08/17/20 10:14	7440-47-3	
Cobalt	ND	ug/L	5.0	0.53	1	08/12/20 09:01	08/17/20 10:14	7440-48-4	
Copper	ND	ug/L	5.0	2.7	1	08/12/20 09:01	08/17/20 10:14	7440-50-8	
Iron	**19200**	ug/L	70.0	40.9	1	08/12/20 09:01	08/17/20 10:14	7439-89-6	
Lead	ND	ug/L	5.0	4.9	1	08/12/20 09:01	08/17/20 10:14	7439-92-1	
Magnesium	**21100**	ug/L	200	28.4	1	08/12/20 09:01	08/17/20 10:14	7439-95-4	2c
Manganese	**4910**	ug/L	5.0	1.2	1	08/12/20 09:01	08/17/20 10:14	7439-96-5	2c
Molybdenum	ND	ug/L	20.0	0.85	1	08/12/20 09:01	08/17/20 10:14	7439-98-7	
Nickel	ND	ug/L	10.0	1.5	1	08/12/20 09:01	08/17/20 10:14	7440-02-0	
Potassium	**8740**	ug/L	500	72.4	1	08/12/20 09:01	08/17/20 10:14	7440-09-7	
Selenium	ND	ug/L	8.0	5.5	1	08/12/20 09:01	08/17/20 10:14	7782-49-2	
Silver	ND	ug/L	6.0	1.4	1	08/12/20 09:01	08/17/20 10:14	7440-22-4	
Sodium	**19600**	ug/L	1000	423	1	08/12/20 09:01	08/17/20 10:14	7440-23-5	2c
Thallium	ND	ug/L	10.0	4.0	1	08/12/20 09:01	08/17/20 10:14	7440-28-0	
Vanadium	ND	ug/L	5.0	0.57	1	08/12/20 09:01	08/17/20 10:14	7440-62-2	
Zinc	ND	ug/L	10.0	2.4	1	08/12/20 09:01	08/17/20 10:14	7440-66-6	
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Aluminum, Dissolved	**63.5**	ug/L	50.0	20.3	1	08/12/20 08:59	08/17/20 09:44	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.3	1	08/12/20 08:59	08/17/20 09:44	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.0	1	08/12/20 08:59	08/17/20 09:44	7440-38-2	B
Barium, Dissolved	**216**	ug/L	10.0	0.68	1	08/12/20 08:59	08/17/20 09:44	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	1.0	0.17	1	08/12/20 08:59	08/17/20 09:44	7440-41-7	
Boron, Dissolved	**446**	ug/L	50.0	2.3	1	08/12/20 08:59	08/17/20 09:44	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.34	1	08/12/20 08:59	08/17/20 09:44	7440-43-9	
Calcium, Dissolved	**146000**	ug/L	1000	99.9	1	08/12/20 08:59	08/17/20 09:44	7440-70-2	2c,ML
Chromium, Dissolved	ND	ug/L	5.0	0.35	1	08/12/20 08:59	08/17/20 09:44	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.53	1	08/12/20 08:59	08/17/20 09:44	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	2.7	1	08/12/20 08:59	08/17/20 09:44	7440-50-8	
Iron, Dissolved	**1220**	ug/L	70.0	40.9	1	08/12/20 08:59	08/17/20 09:44	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	4.9	1	08/12/20 08:59	08/17/20 09:44	7439-92-1	
Magnesium, Dissolved	**22100**	ug/L	200	28.4	1	08/12/20 08:59	08/17/20 09:44	7439-95-4	2c,ML
Manganese, Dissolved	**4990**	ug/L	5.0	1.2	1	08/12/20 08:59	08/17/20 09:44	7439-96-5	B,ML
Molybdenum, Dissolved	ND	ug/L	20.0	0.85	1	08/12/20 08:59	08/17/20 09:44	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.5	1	08/12/20 08:59	08/17/20 09:44	7440-02-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: MW-32 **Lab ID: 30376571003** Collected: 08/07/20 09:19 Received: 08/08/20 11:00 Matrix: Water

Comments: • Sample ID on one container does not match COC. Collection time matches

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Potassium, Dissolved	**8910**	ug/L	500	72.4	1	08/12/20 08:59	08/17/20 09:44	7440-09-7	
Selenium, Dissolved	ND	ug/L	8.0	5.5	1	08/12/20 08:59	08/17/20 09:44	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	1.4	1	08/12/20 08:59	08/17/20 09:44	7440-22-4	
Sodium, Dissolved	**19900**	ug/L	1000	423	1	08/12/20 08:59	08/17/20 09:44	7440-23-5	ML
Thallium, Dissolved	ND	ug/L	10.0	4.0	1	08/12/20 08:59	08/17/20 09:44	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.57	1	08/12/20 08:59	08/17/20 09:44	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	2.4	1	08/12/20 08:59	08/17/20 09:44	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury	ND	ug/L	0.20	0.030	1	08/10/20 10:55	08/10/20 18:12	7439-97-6	1c
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	08/12/20 15:00	08/12/20 22:26	7439-97-6	1c
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.97	0.38	1	08/11/20 08:31	08/12/20 20:13	83-32-9	
Acenaphthylene	ND	ug/L	0.97	0.37	1	08/11/20 08:31	08/12/20 20:13	208-96-8	
Anthracene	ND	ug/L	0.97	0.26	1	08/11/20 08:31	08/12/20 20:13	120-12-7	
Azobenzene	ND	ug/L	0.97	0.34	1	08/11/20 08:31	08/12/20 20:13	103-33-3	
Benzo(a)anthracene	ND	ug/L	0.97	0.20	1	08/11/20 08:31	08/12/20 20:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.97	0.18	1	08/11/20 08:31	08/12/20 20:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.97	0.23	1	08/11/20 08:31	08/12/20 20:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.97	0.29	1	08/11/20 08:31	08/12/20 20:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.97	0.25	1	08/11/20 08:31	08/12/20 20:13	207-08-9	
Benzoic acid	ND	ug/L	14.5	2.7	1	08/11/20 08:31	08/12/20 20:13	65-85-0	4c,L1
Benzyl alcohol	ND	ug/L	0.97	0.68	1	08/11/20 08:31	08/12/20 20:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	0.97	0.38	1	08/11/20 08:31	08/12/20 20:13	101-55-3	
Butylbenzylphthalate	ND	ug/L	0.97	0.29	1	08/11/20 08:31	08/12/20 20:13	85-68-7	
Carbazole	ND	ug/L	0.97	0.23	1	08/11/20 08:31	08/12/20 20:13	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	0.97	0.42	1	08/11/20 08:31	08/12/20 20:13	59-50-7	
4-Chloroaniline	ND	ug/L	0.97	0.21	1	08/11/20 08:31	08/12/20 20:13	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	0.97	0.34	1	08/11/20 08:31	08/12/20 20:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	0.97	0.40	1	08/11/20 08:31	08/12/20 20:13	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	0.97	0.39	1	08/11/20 08:31	08/12/20 20:13	108-60-1	
2-Chloronaphthalene	ND	ug/L	0.97	0.32	1	08/11/20 08:31	08/12/20 20:13	91-58-7	
2-Chlorophenol	ND	ug/L	0.97	0.31	1	08/11/20 08:31	08/12/20 20:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	0.97	0.35	1	08/11/20 08:31	08/12/20 20:13	7005-72-3	
Chrysene	ND	ug/L	0.97	0.20	1	08/11/20 08:31	08/12/20 20:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.97	0.30	1	08/11/20 08:31	08/12/20 20:13	53-70-3	
Dibenzofuran	ND	ug/L	0.97	0.35	1	08/11/20 08:31	08/12/20 20:13	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	0.97	0.33	1	08/11/20 08:31	08/12/20 20:13	95-50-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: MW-32 **Lab ID: 30376571003** Collected: 08/07/20 09:19 Received: 08/08/20 11:00 Matrix: Water

Comments: • Sample ID on one container does not match COC. Collection time matches

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
1,3-Dichlorobenzene	ND	ug/L	0.97	0.29	1	08/11/20 08:31	08/12/20 20:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.97	0.27	1	08/11/20 08:31	08/12/20 20:13	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	0.97	0.22	1	08/11/20 08:31	08/12/20 20:13	91-94-1	L2,ML
2,4-Dichlorophenol	ND	ug/L	0.97	0.32	1	08/11/20 08:31	08/12/20 20:13	120-83-2	
Diethylphthalate	ND	ug/L	0.97	0.35	1	08/11/20 08:31	08/12/20 20:13	84-66-2	
2,4-Dimethylphenol	ND	ug/L	0.97	0.35	1	08/11/20 08:31	08/12/20 20:13	105-67-9	
Dimethylphthalate	ND	ug/L	0.97	0.42	1	08/11/20 08:31	08/12/20 20:13	131-11-3	
Di-n-butylphthalate	ND	ug/L	0.97	0.31	1	08/11/20 08:31	08/12/20 20:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.4	0.62	1	08/11/20 08:31	08/12/20 20:13	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.4	0.57	1	08/11/20 08:31	08/12/20 20:13	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	0.97	0.35	1	08/11/20 08:31	08/12/20 20:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	0.97	0.39	1	08/11/20 08:31	08/12/20 20:13	606-20-2	
Di-n-octylphthalate	ND	ug/L	0.97	0.26	1	08/11/20 08:31	08/12/20 20:13	117-84-0	3c
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.97	0.35	1	08/11/20 08:31	08/12/20 20:13	117-81-7	
Fluoranthene	ND	ug/L	0.97	0.23	1	08/11/20 08:31	08/12/20 20:13	206-44-0	
Fluorene	ND	ug/L	0.97	0.36	1	08/11/20 08:31	08/12/20 20:13	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	0.97	0.32	1	08/11/20 08:31	08/12/20 20:13	87-68-3	
Hexachlorobenzene	ND	ug/L	0.97	0.29	1	08/11/20 08:31	08/12/20 20:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	0.97	0.18	1	08/11/20 08:31	08/12/20 20:13	77-47-4	
Hexachloroethane	ND	ug/L	0.97	0.29	1	08/11/20 08:31	08/12/20 20:13	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.97	0.29	1	08/11/20 08:31	08/12/20 20:13	193-39-5	
Isophorone	ND	ug/L	0.97	0.55	1	08/11/20 08:31	08/12/20 20:13	78-59-1	
1-Methylnaphthalene	ND	ug/L	0.97	0.35	1	08/11/20 08:31	08/12/20 20:13	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.97	0.33	1	08/11/20 08:31	08/12/20 20:13	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	0.97	0.35	1	08/11/20 08:31	08/12/20 20:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	1.9	1.8	1	08/11/20 08:31	08/12/20 20:13		
Naphthalene	ND	ug/L	0.97	0.34	1	08/11/20 08:31	08/12/20 20:13	91-20-3	
2-Nitroaniline	ND	ug/L	2.4	0.69	1	08/11/20 08:31	08/12/20 20:13	88-74-4	
3-Nitroaniline	ND	ug/L	2.4	0.93	1	08/11/20 08:31	08/12/20 20:13	99-09-2	
4-Nitroaniline	ND	ug/L	2.4	1.8	1	08/11/20 08:31	08/12/20 20:13	100-01-6	
Nitrobenzene	ND	ug/L	0.97	0.36	1	08/11/20 08:31	08/12/20 20:13	98-95-3	
2-Nitrophenol	ND	ug/L	0.97	0.34	1	08/11/20 08:31	08/12/20 20:13	88-75-5	
4-Nitrophenol	ND	ug/L	0.97	0.74	1	08/11/20 08:31	08/12/20 20:13	100-02-7	ML
N-Nitrosodimethylamine	ND	ug/L	0.97	0.25	1	08/11/20 08:31	08/12/20 20:13	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	0.97	0.52	1	08/11/20 08:31	08/12/20 20:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	0.97	0.25	1	08/11/20 08:31	08/12/20 20:13	86-30-6	
Pentachlorophenol	ND	ug/L	2.4	1.0	1	08/11/20 08:31	08/12/20 20:13	87-86-5	L1
Phenanthrene	ND	ug/L	0.97	0.33	1	08/11/20 08:31	08/12/20 20:13	85-01-8	
Phenol	ND	ug/L	0.97	0.22	1	08/11/20 08:31	08/12/20 20:13	108-95-2	
Pyrene	ND	ug/L	0.97	0.29	1	08/11/20 08:31	08/12/20 20:13	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	0.97	0.31	1	08/11/20 08:31	08/12/20 20:13	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.4	0.65	1	08/11/20 08:31	08/12/20 20:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	0.97	0.35	1	08/11/20 08:31	08/12/20 20:13	88-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30376571

Sample: MW-32 **Lab ID: 30376571003** Collected: 08/07/20 09:19 Received: 08/08/20 11:00 Matrix: Water

Comments: • Sample ID on one container does not match COC. Collection time matches

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Surrogates									
Nitrobenzene-d5 (S)	43	%.	10-140		1	08/11/20 08:31	08/12/20 20:13	4165-60-0	
2-Fluorobiphenyl (S)	43	%.	10-135		1	08/11/20 08:31	08/12/20 20:13	321-60-8	
Terphenyl-d14 (S)	67	%.	10-128		1	08/11/20 08:31	08/12/20 20:13	1718-51-0	
Phenol-d6 (S)	15	%.	10-145		1	08/11/20 08:31	08/12/20 20:13	13127-88-3	
2-Fluorophenol (S)	23	%.	10-142		1	08/11/20 08:31	08/12/20 20:13	367-12-4	
2,4,6-Tribromophenol (S)	73	%.	10-140		1	08/11/20 08:31	08/12/20 20:13	118-79-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

QC Batch: 408666
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30376571001, 30376571002, 30376571003

METHOD BLANK: 1977860 Matrix: Water
Associated Lab Samples: 30376571001, 30376571002, 30376571003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.030	08/10/20 18:08	

LABORATORY CONTROL SAMPLE: 1977861

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	101	80-120	

MATRIX SPIKE SAMPLE: 1977863

Parameter	Units	30375991006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.25	2.5	1.0	32	75-125	ML

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1977865 1977866

Parameter	Units	30376571003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.4	103	97	75-125	6	20	

SAMPLE DUPLICATE: 1977862

Parameter	Units	30375991006 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	0.25	0.24	4	20	

SAMPLE DUPLICATE: 1977864

Parameter	Units	30376571003 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

QC Batch: 409153
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30376571001, 30376571002, 30376571003

METHOD BLANK: 1980148 Matrix: Water
Associated Lab Samples: 30376571001, 30376571002, 30376571003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	0.030	08/12/20 22:20	

LABORATORY CONTROL SAMPLE: 1980149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	0.89	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1980151 1980152

Parameter	Units	30376571003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	2.5	2.5	2.6	2.4	103	97	75-125	6	20	

SAMPLE DUPLICATE: 1980150

Parameter	Units	30376571003 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury, Dissolved	ug/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

QC Batch: 409014
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010C
Analysis Description: 6010C MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30376571001, 30376571002, 30376571003

METHOD BLANK: 1979742 Matrix: Water
Associated Lab Samples: 30376571001, 30376571002, 30376571003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	50.0	20.3	08/17/20 10:10	
Antimony	ug/L	ND	6.0	3.3	08/17/20 10:10	
Arsenic	ug/L	ND	5.0	2.0	08/17/20 10:10	
Barium	ug/L	ND	10.0	0.68	08/17/20 10:10	
Beryllium	ug/L	ND	1.0	0.17	08/17/20 10:10	
Boron	ug/L	ND	50.0	2.3	08/17/20 10:10	
Cadmium	ug/L	ND	3.0	0.34	08/17/20 10:10	
Calcium	ug/L	ND	1000	99.9	08/17/20 10:10	
Chromium	ug/L	ND	5.0	0.35	08/17/20 10:10	
Cobalt	ug/L	ND	5.0	0.53	08/17/20 10:10	
Copper	ug/L	ND	5.0	2.7	08/17/20 10:10	
Iron	ug/L	ND	70.0	40.9	08/17/20 10:10	
Lead	ug/L	ND	5.0	4.9	08/17/20 10:10	
Magnesium	ug/L	ND	200	28.4	08/17/20 10:10	
Manganese	ug/L	ND	5.0	1.2	08/17/20 10:10	
Molybdenum	ug/L	ND	20.0	0.85	08/17/20 10:10	
Nickel	ug/L	ND	10.0	1.5	08/17/20 10:10	
Potassium	ug/L	ND	500	72.4	08/17/20 10:10	
Selenium	ug/L	ND	8.0	5.5	08/17/20 10:10	
Silver	ug/L	ND	6.0	1.4	08/17/20 10:10	
Sodium	ug/L	ND	1000	423	08/17/20 10:10	
Thallium	ug/L	ND	10.0	4.0	08/17/20 10:10	
Vanadium	ug/L	ND	5.0	0.57	08/17/20 10:10	
Zinc	ug/L	ND	10.0	2.4	08/17/20 10:10	

LABORATORY CONTROL SAMPLE: 1979743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4760	95	80-120	
Antimony	ug/L	500	508	102	80-120	
Arsenic	ug/L	500	486	97	80-120	
Barium	ug/L	500	491	98	80-120	
Beryllium	ug/L	500	474	95	80-120	
Boron	ug/L	500	516	103	80-120	
Cadmium	ug/L	500	499	100	80-120	
Calcium	ug/L	5000	4740	95	80-120	
Chromium	ug/L	500	471	94	80-120	
Cobalt	ug/L	500	456	91	80-120	
Copper	ug/L	500	483	97	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

LABORATORY CONTROL SAMPLE: 1979743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	5000	4850	97	80-120	
Lead	ug/L	500	457	91	80-120	
Magnesium	ug/L	5000	4600	92	80-120	
Manganese	ug/L	500	474	95	80-120	
Molybdenum	ug/L	500	452	90	80-120	
Nickel	ug/L	500	499	100	80-120	
Potassium	ug/L	5000	4880	98	80-120	
Selenium	ug/L	500	484	97	80-120	
Silver	ug/L	250	238	95	80-120	
Sodium	ug/L	5000	5040	101	80-120	
Thallium	ug/L	500	444	89	80-120	
Vanadium	ug/L	500	477	95	80-120	
Zinc	ug/L	500	473	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1979745 1979746

Parameter	Units	30376571003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	148	5000	5000	5140	5140	100	100	75-125	0	20	
Antimony	ug/L	ND	500	500	511	515	102	103	75-125	1	20	
Arsenic	ug/L	ND	500	500	498	499	99	99	75-125	0	20	
Barium	ug/L	272	500	500	761	774	98	100	75-125	2	20	
Beryllium	ug/L	ND	500	500	486	492	97	98	75-125	1	20	
Boron	ug/L	438	500	500	946	957	102	104	75-125	1	20	
Cadmium	ug/L	ND	500	500	502	502	100	100	75-125	0	20	
Calcium	ug/L	141000	5000	5000	143000	145000	28	78	75-125	2	20	ML
Chromium	ug/L	ND	500	500	468	466	93	93	75-125	0	20	
Cobalt	ug/L	ND	500	500	475	474	95	95	75-125	0	20	
Copper	ug/L	ND	500	500	491	500	98	100	75-125	2	20	
Iron	ug/L	19200	5000	5000	23600	24000	89	96	75-125	2	20	
Lead	ug/L	ND	500	500	467	468	93	94	75-125	0	20	
Magnesium	ug/L	21100	5000	5000	25200	25600	81	90	75-125	2	20	
Manganese	ug/L	4910	500	500	5310	5390	79	95	75-125	2	20	
Molybdenum	ug/L	ND	500	500	490	491	98	98	75-125	0	20	
Nickel	ug/L	ND	500	500	478	476	95	95	75-125	0	20	
Potassium	ug/L	8740	5000	5000	13700	14000	99	105	75-125	2	20	
Selenium	ug/L	ND	500	500	487	490	97	98	75-125	0	20	
Silver	ug/L	ND	250	250	243	243	97	97	75-125	0	20	
Sodium	ug/L	19600	5000	5000	24000	24400	87	96	75-125	2	20	
Thallium	ug/L	ND	500	500	440	441	88	88	75-125	0	20	
Vanadium	ug/L	ND	500	500	484	483	97	96	75-125	0	20	
Zinc	ug/L	ND	500	500	457	456	91	91	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

SAMPLE DUPLICATE: 1979744

Parameter	Units	30376571003 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	148	115	26	20	D6
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	2.5J		20	
Barium	ug/L	272	272	0	20	
Beryllium	ug/L	ND	ND		20	
Boron	ug/L	438	442	1	20	
Cadmium	ug/L	ND	ND		20	
Calcium	ug/L	141000	140000	1	20	
Chromium	ug/L	ND	.54J		20	
Cobalt	ug/L	ND	ND		20	
Copper	ug/L	ND	ND		20	
Iron	ug/L	19200	19100	0	20	
Lead	ug/L	ND	ND		20	
Magnesium	ug/L	21100	20700	2	20	
Manganese	ug/L	4910	4890	1	20	
Molybdenum	ug/L	ND	ND		20	
Nickel	ug/L	ND	ND		20	
Potassium	ug/L	8740	8670	1	20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Sodium	ug/L	19600	19200	2	20	
Thallium	ug/L	ND	ND		20	
Vanadium	ug/L	ND	.78J		20	
Zinc	ug/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

QC Batch: 409013
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010C
Analysis Description: 6010C MET Dissolved
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30376571001, 30376571002, 30376571003

METHOD BLANK: 1979737 Matrix: Water
Associated Lab Samples: 30376571001, 30376571002, 30376571003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	20.3	08/17/20 09:40	
Antimony, Dissolved	ug/L	ND	6.0	3.3	08/17/20 09:40	
Arsenic, Dissolved	ug/L	ND	5.0	2.0	08/17/20 09:40	B
Barium, Dissolved	ug/L	ND	10.0	0.68	08/17/20 09:40	B
Beryllium, Dissolved	ug/L	ND	1.0	0.17	08/17/20 09:40	
Boron, Dissolved	ug/L	ND	50.0	2.3	08/17/20 09:40	
Cadmium, Dissolved	ug/L	ND	3.0	0.34	08/17/20 09:40	
Calcium, Dissolved	ug/L	ND	1000	99.9	08/17/20 09:40	
Chromium, Dissolved	ug/L	ND	5.0	0.35	08/17/20 09:40	
Cobalt, Dissolved	ug/L	ND	5.0	0.53	08/17/20 09:40	
Copper, Dissolved	ug/L	ND	5.0	2.7	08/17/20 09:40	
Iron, Dissolved	ug/L	ND	70.0	40.9	08/17/20 09:40	
Lead, Dissolved	ug/L	ND	5.0	4.9	08/17/20 09:40	
Magnesium, Dissolved	ug/L	ND	200	28.4	08/17/20 09:40	
Manganese, Dissolved	ug/L	ND	5.0	1.2	08/17/20 09:40	B
Molybdenum, Dissolved	ug/L	ND	20.0	0.85	08/17/20 09:40	
Nickel, Dissolved	ug/L	ND	10.0	1.5	08/17/20 09:40	
Potassium, Dissolved	ug/L	ND	500	72.4	08/17/20 09:40	
Selenium, Dissolved	ug/L	ND	8.0	5.5	08/17/20 09:40	
Silver, Dissolved	ug/L	ND	6.0	1.4	08/17/20 09:40	
Sodium, Dissolved	ug/L	ND	1000	423	08/17/20 09:40	
Thallium, Dissolved	ug/L	ND	10.0	4.0	08/17/20 09:40	
Vanadium, Dissolved	ug/L	ND	5.0	0.57	08/17/20 09:40	
Zinc, Dissolved	ug/L	ND	10.0	2.4	08/17/20 09:40	

LABORATORY CONTROL SAMPLE: 1979738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4700	94	80-120	
Antimony, Dissolved	ug/L	500	483	97	80-120	
Arsenic, Dissolved	ug/L	500	470	94	80-120	
Barium, Dissolved	ug/L	500	481	96	80-120	
Beryllium, Dissolved	ug/L	500	471	94	80-120	
Boron, Dissolved	ug/L	500	484	97	80-120	
Cadmium, Dissolved	ug/L	500	484	97	80-120	
Calcium, Dissolved	ug/L	5000	4710	94	80-120	
Chromium, Dissolved	ug/L	500	465	93	80-120	
Cobalt, Dissolved	ug/L	500	452	90	80-120	
Copper, Dissolved	ug/L	500	479	96	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

LABORATORY CONTROL SAMPLE: 1979738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4790	96	80-120	
Lead, Dissolved	ug/L	500	453	91	80-120	
Magnesium, Dissolved	ug/L	5000	4560	91	80-120	
Manganese, Dissolved	ug/L	500	472	94	80-120	
Molybdenum, Dissolved	ug/L	500	446	89	80-120	
Nickel, Dissolved	ug/L	500	485	97	80-120	
Potassium, Dissolved	ug/L	5000	4720	94	80-120	
Selenium, Dissolved	ug/L	500	477	95	80-120	
Silver, Dissolved	ug/L	250	233	93	80-120	
Sodium, Dissolved	ug/L	5000	4970	99	80-120	
Thallium, Dissolved	ug/L	500	441	88	80-120	
Vanadium, Dissolved	ug/L	500	468	94	80-120	
Zinc, Dissolved	ug/L	500	469	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1979740 1979741

Parameter	Units	30376571003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	63.5	5000	5000	5080	4800	100	95	75-125	6	20	
Antimony, Dissolved	ug/L	ND	500	500	518	498	104	100	75-125	4	20	
Arsenic, Dissolved	ug/L	ND	500	500	507	488	101	97	75-125	4	20	
Barium, Dissolved	ug/L	216	500	500	711	669	99	91	75-125	6	20	
Beryllium, Dissolved	ug/L	ND	500	500	499	470	100	94	75-125	6	20	
Boron, Dissolved	ug/L	446	500	500	960	932	103	97	75-125	3	20	
Cadmium, Dissolved	ug/L	ND	500	500	508	494	102	99	75-125	3	20	
Calcium, Dissolved	ug/L	146000	5000	5000	148000	139000	40	-136	75-125	6	20	ML
Chromium, Dissolved	ug/L	ND	500	500	474	462	95	92	75-125	3	20	
Cobalt, Dissolved	ug/L	ND	500	500	489	472	98	94	75-125	3	20	
Copper, Dissolved	ug/L	ND	500	500	500	473	100	95	75-125	5	20	
Iron, Dissolved	ug/L	1220	5000	5000	6290	5930	101	94	75-125	6	20	
Lead, Dissolved	ug/L	ND	500	500	483	465	97	93	75-125	4	20	
Magnesium, Dissolved	ug/L	22100	5000	5000	26400	24800	87	54	75-125	6	20	ML
Manganese, Dissolved	ug/L	4990	500	500	5440	5090	89	19	75-125	7	20	ML
Molybdenum, Dissolved	ug/L	ND	500	500	512	494	102	98	75-125	4	20	
Nickel, Dissolved	ug/L	ND	500	500	483	468	97	93	75-125	3	20	
Potassium, Dissolved	ug/L	8910	5000	5000	14000	13100	102	83	75-125	7	20	
Selenium, Dissolved	ug/L	ND	500	500	500	481	100	96	75-125	4	20	
Silver, Dissolved	ug/L	ND	250	250	252	243	100	96	75-125	4	20	
Sodium, Dissolved	ug/L	19900	5000	5000	24900	23400	101	69	75-125	7	20	ML
Thallium, Dissolved	ug/L	ND	500	500	457	442	91	88	75-125	3	20	
Vanadium, Dissolved	ug/L	ND	500	500	493	476	98	95	75-125	4	20	
Zinc, Dissolved	ug/L	ND	500	500	469	456	94	91	75-125	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

SAMPLE DUPLICATE: 1979739

Parameter	Units	30376571003 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	63.5	42.3J		20	
Antimony, Dissolved	ug/L	ND	ND		20	
Arsenic, Dissolved	ug/L	ND	2.1J		20	
Barium, Dissolved	ug/L	216	214	1	20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Boron, Dissolved	ug/L	446	451	1	20	
Cadmium, Dissolved	ug/L	ND	ND		20	
Calcium, Dissolved	ug/L	146000	145000	0	20	
Chromium, Dissolved	ug/L	ND	.72J		20	
Cobalt, Dissolved	ug/L	ND	ND		20	
Copper, Dissolved	ug/L	ND	ND		20	
Iron, Dissolved	ug/L	1220	1210	1	20	
Lead, Dissolved	ug/L	ND	ND		20	
Magnesium, Dissolved	ug/L	22100	21800	1	20	
Manganese, Dissolved	ug/L	4990	4980	0	20	
Molybdenum, Dissolved	ug/L	ND	ND		20	
Nickel, Dissolved	ug/L	ND	ND		20	
Potassium, Dissolved	ug/L	8910	8900	0	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	ND		20	
Sodium, Dissolved	ug/L	19900	20000	1	20	
Thallium, Dissolved	ug/L	ND	ND		20	
Vanadium, Dissolved	ug/L	ND	.79J		20	
Zinc, Dissolved	ug/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

QC Batch: 408776
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270D
Analysis Description: 8270D Water MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30376571001, 30376571002, 30376571003

METHOD BLANK: 1978281 Matrix: Water
Associated Lab Samples: 30376571001, 30376571002, 30376571003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.32	08/12/20 17:07	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.34	08/12/20 17:07	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.30	08/12/20 17:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.28	08/12/20 17:07	
1-Methylnaphthalene	ug/L	ND	1.0	0.36	08/12/20 17:07	
2,4,5-Trichlorophenol	ug/L	ND	2.5	0.67	08/12/20 17:07	
2,4,6-Trichlorophenol	ug/L	ND	1.0	0.37	08/12/20 17:07	
2,4-Dichlorophenol	ug/L	ND	1.0	0.34	08/12/20 17:07	
2,4-Dimethylphenol	ug/L	ND	1.0	0.36	08/12/20 17:07	
2,4-Dinitrophenol	ug/L	ND	2.5	0.58	08/12/20 17:07	
2,4-Dinitrotoluene	ug/L	ND	1.0	0.36	08/12/20 17:07	
2,6-Dinitrotoluene	ug/L	ND	1.0	0.40	08/12/20 17:07	
2-Chloronaphthalene	ug/L	ND	1.0	0.33	08/12/20 17:07	
2-Chlorophenol	ug/L	ND	1.0	0.32	08/12/20 17:07	
2-Methylnaphthalene	ug/L	ND	1.0	0.34	08/12/20 17:07	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	0.37	08/12/20 17:07	
2-Nitroaniline	ug/L	ND	2.5	0.71	08/12/20 17:07	
2-Nitrophenol	ug/L	ND	1.0	0.35	08/12/20 17:07	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	1.9	08/12/20 17:07	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	0.23	08/12/20 17:07	
3-Nitroaniline	ug/L	ND	2.5	0.96	08/12/20 17:07	
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	0.64	08/12/20 17:07	
4-Bromophenylphenyl ether	ug/L	ND	1.0	0.39	08/12/20 17:07	
4-Chloro-3-methylphenol	ug/L	ND	1.0	0.44	08/12/20 17:07	
4-Chloroaniline	ug/L	ND	1.0	0.21	08/12/20 17:07	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	0.36	08/12/20 17:07	
4-Nitroaniline	ug/L	ND	2.5	1.9	08/12/20 17:07	
4-Nitrophenol	ug/L	ND	1.0	0.76	08/12/20 17:07	
Acenaphthene	ug/L	ND	1.0	0.39	08/12/20 17:07	
Acenaphthylene	ug/L	ND	1.0	0.38	08/12/20 17:07	
Anthracene	ug/L	ND	1.0	0.27	08/12/20 17:07	
Azobenzene	ug/L	ND	1.0	0.35	08/12/20 17:07	
Benzo(a)anthracene	ug/L	ND	1.0	0.20	08/12/20 17:07	
Benzo(a)pyrene	ug/L	ND	1.0	0.18	08/12/20 17:07	
Benzo(b)fluoranthene	ug/L	ND	1.0	0.24	08/12/20 17:07	
Benzo(g,h,i)perylene	ug/L	ND	1.0	0.30	08/12/20 17:07	
Benzo(k)fluoranthene	ug/L	ND	1.0	0.26	08/12/20 17:07	
Benzoic acid	ug/L	ND	15.0	2.8	08/12/20 17:07	4c
Benzyl alcohol	ug/L	ND	1.0	0.70	08/12/20 17:07	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	0.36	08/12/20 17:07	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

METHOD BLANK: 1978281 Matrix: Water
Associated Lab Samples: 30376571001, 30376571002, 30376571003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	ND	1.0	0.41	08/12/20 17:07	
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	0.40	08/12/20 17:07	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	0.36	08/12/20 17:07	
Butylbenzylphthalate	ug/L	ND	1.0	0.30	08/12/20 17:07	
Carbazole	ug/L	ND	1.0	0.23	08/12/20 17:07	
Chrysene	ug/L	ND	1.0	0.21	08/12/20 17:07	
Di-n-butylphthalate	ug/L	ND	1.0	0.32	08/12/20 17:07	
Di-n-octylphthalate	ug/L	ND	1.0	0.27	08/12/20 17:07	3c
Dibenz(a,h)anthracene	ug/L	ND	1.0	0.31	08/12/20 17:07	
Dibenzofuran	ug/L	ND	1.0	0.36	08/12/20 17:07	
Diethylphthalate	ug/L	ND	1.0	0.36	08/12/20 17:07	
Dimethylphthalate	ug/L	ND	1.0	0.44	08/12/20 17:07	
Fluoranthene	ug/L	ND	1.0	0.23	08/12/20 17:07	
Fluorene	ug/L	ND	1.0	0.37	08/12/20 17:07	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.33	08/12/20 17:07	
Hexachlorobenzene	ug/L	ND	1.0	0.30	08/12/20 17:07	
Hexachlorocyclopentadiene	ug/L	ND	1.0	0.19	08/12/20 17:07	
Hexachloroethane	ug/L	ND	1.0	0.30	08/12/20 17:07	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	0.30	08/12/20 17:07	
Isophorone	ug/L	ND	1.0	0.57	08/12/20 17:07	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	0.54	08/12/20 17:07	
N-Nitrosodimethylamine	ug/L	ND	1.0	0.26	08/12/20 17:07	
N-Nitrosodiphenylamine	ug/L	ND	1.0	0.25	08/12/20 17:07	
Naphthalene	ug/L	ND	1.0	0.35	08/12/20 17:07	
Nitrobenzene	ug/L	ND	1.0	0.38	08/12/20 17:07	
Pentachlorophenol	ug/L	ND	2.5	1.0	08/12/20 17:07	
Phenanthrene	ug/L	ND	1.0	0.34	08/12/20 17:07	
Phenol	ug/L	ND	1.0	0.22	08/12/20 17:07	
Pyrene	ug/L	ND	1.0	0.30	08/12/20 17:07	
2,4,6-Tribromophenol (S)	%.	66	10-140		08/12/20 17:07	
2-Fluorobiphenyl (S)	%.	57	10-135		08/12/20 17:07	
2-Fluorophenol (S)	%.	34	10-142		08/12/20 17:07	
Nitrobenzene-d5 (S)	%.	51	10-140		08/12/20 17:07	
Phenol-d6 (S)	%.	25	10-145		08/12/20 17:07	
Terphenyl-d14 (S)	%.	87	10-128		08/12/20 17:07	

LABORATORY CONTROL SAMPLE: 1978282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	10	4.6	46	21-84	
1,2-Dichlorobenzene	ug/L	10	4.8	48	18-89	
1,3-Dichlorobenzene	ug/L	10	4.5	45	18-87	
1,4-Dichlorobenzene	ug/L	10	4.6	46	15-105	
1-Methylnaphthalene	ug/L	10	5.8	58	26-88	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

LABORATORY CONTROL SAMPLE: 1978282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	ug/L	10	7.9	79	57-113	
2,4,6-Trichlorophenol	ug/L	10	7.2	72	45-122	
2,4-Dichlorophenol	ug/L	10	6.4	64	33-96	
2,4-Dimethylphenol	ug/L	10	6.4	64	19-87	
2,4-Dinitrophenol	ug/L	10	10.6	106	15-119	
2,4-Dinitrotoluene	ug/L	10	9.5	95	40-119	
2,6-Dinitrotoluene	ug/L	10	7.6	76	50-116	
2-Chloronaphthalene	ug/L	10	5.5	55	30-101	
2-Chlorophenol	ug/L	10	5.8	58	27-97	
2-Methylnaphthalene	ug/L	10	5.8	58	24-91	
2-Methylphenol(o-Cresol)	ug/L	10	6.0	60	10-175	
2-Nitroaniline	ug/L	10	8.0	80	48-120	
2-Nitrophenol	ug/L	10	6.0	60	29-96	
3&4-Methylphenol(m&p Cresol)	ug/L	20	11.4	57	21-131	
3,3'-Dichlorobenzidine	ug/L	10	4.4	44	49-117	L2
3-Nitroaniline	ug/L	10	7.2	72	52-114	
4,6-Dinitro-2-methylphenol	ug/L	10	10.9	109	40-140	
4-Bromophenylphenyl ether	ug/L	10	8.0	80	47-120	
4-Chloro-3-methylphenol	ug/L	10	7.4	74	41-102	
4-Chloroaniline	ug/L	10	5.7	57	22-79	
4-Chlorophenylphenyl ether	ug/L	10	6.9	69	42-112	
4-Nitroaniline	ug/L	10	4.7	47	46-136	
4-Nitrophenol	ug/L	10	5.4	54	17-76	
Acenaphthene	ug/L	10	6.4	64	36-106	
Acenaphthylene	ug/L	10	6.5	65	35-103	
Anthracene	ug/L	10	9.1	91	56-106	
Azobenzene	ug/L	10	7.2	72	43-119	
Benzo(a)anthracene	ug/L	10	10.2	102	64-124	
Benzo(a)pyrene	ug/L	10	10.3	103	61-115	
Benzo(b)fluoranthene	ug/L	10	11.2	112	58-133	
Benzo(g,h,i)perylene	ug/L	10	10.4	104	40-142	
Benzo(k)fluoranthene	ug/L	10	9.9	99	61-121	
Benzoic acid	ug/L	10	4.6J	46	10-43	4c,L1
Benzyl alcohol	ug/L	10	5.8	58	29-106	
bis(2-Chloroethoxy)methane	ug/L	10	5.9	59	33-96	
bis(2-Chloroethyl) ether	ug/L	10	5.9	59	25-98	
bis(2-Chloroisopropyl) ether	ug/L	10	5.4	54	23-104	
bis(2-Ethylhexyl)phthalate	ug/L	10	11.3	113	65-141	
Butylbenzylphthalate	ug/L	10	12.0	120	64-142	
Carbazole	ug/L	10	9.7	97	59-112	
Chrysene	ug/L	10	10.1	101	63-120	
Di-n-butylphthalate	ug/L	10	10.9	109	69-126	
Di-n-octylphthalate	ug/L	10	9.6	96	61-145	3c
Dibenz(a,h)anthracene	ug/L	10	10.8	108	52-138	
Dibenzofuran	ug/L	10	6.5	65	39-107	
Diethylphthalate	ug/L	10	8.9	89	61-117	
Dimethylphthalate	ug/L	10	7.7	77	54-114	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

LABORATORY CONTROL SAMPLE: 1978282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/L	10	10.4	104	65-119	
Fluorene	ug/L	10	7.2	72	44-110	
Hexachloro-1,3-butadiene	ug/L	10	4.9	49	13-112	
Hexachlorobenzene	ug/L	10	7.9	79	17-121	
Hexachlorocyclopentadiene	ug/L	10	4.7	47	10-83	
Hexachloroethane	ug/L	10	4.2	42	13-108	
Indeno(1,2,3-cd)pyrene	ug/L	10	10.8	108	48-140	
Isophorone	ug/L	10	5.9	59	34-93	
N-Nitroso-di-n-propylamine	ug/L	10	6.1	61	34-106	
N-Nitrosodimethylamine	ug/L	10	4.1	41	17-82	
N-Nitrosodiphenylamine	ug/L	10	7.5	75	34-97	
Naphthalene	ug/L	10	5.6	56	23-90	
Nitrobenzene	ug/L	10	5.4	54	26-128	
Pentachlorophenol	ug/L	10	13.4	134	37-125	L1
Phenanthrene	ug/L	10	8.9	89	56-112	
Phenol	ug/L	10	2.9	29	10-58	
Pyrene	ug/L	10	10.5	105	56-128	
2,4,6-Tribromophenol (S)	%.			87	10-140	
2-Fluorobiphenyl (S)	%.			53	10-135	
2-Fluorophenol (S)	%.			35	10-142	
Nitrobenzene-d5 (S)	%.			52	10-140	
Phenol-d6 (S)	%.			27	10-145	
Terphenyl-d14 (S)	%.			90	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978283 1978284

Parameter	Units	30376571003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	9.7	9.7	4.4	4.3	45	45	10-77	1	25	
1,2-Dichlorobenzene	ug/L	ND	9.7	9.7	4.6	4.6	47	48	10-87	1	25	
1,3-Dichlorobenzene	ug/L	ND	9.7	9.7	4.4	4.3	45	45	10-77	0	25	
1,4-Dichlorobenzene	ug/L	ND	9.7	9.7	4.3	4.5	45	46	10-92	3	25	
1-Methylnaphthalene	ug/L	ND	9.7	9.7	5.8	4.9	58	49	10-83	16	25	
2,4,5-Trichlorophenol	ug/L	ND	9.7	9.7	7.2	7.4	74	77	32-129	4	25	
2,4,6-Trichlorophenol	ug/L	ND	9.7	9.7	7.0	7.1	72	73	25-130	2	25	
2,4-Dichlorophenol	ug/L	ND	9.7	9.7	6.0	5.5	62	57	19-100	9	25	
2,4-Dimethylphenol	ug/L	ND	9.7	9.7	5.9	5.5	61	57	10-93	8	25	
2,4-Dinitrophenol	ug/L	ND	9.7	9.7	9.7	9.8	101	102	10-165	1	25	
2,4-Dinitrotoluene	ug/L	ND	9.7	9.7	8.2	8.8	85	91	37-123	6	25	
2,6-Dinitrotoluene	ug/L	ND	9.7	9.7	6.1	6.5	63	67	30-118	6	25	
2-Chloronaphthalene	ug/L	ND	9.7	9.7	5.2	5.4	54	56	14-98	4	25	
2-Chlorophenol	ug/L	ND	9.7	9.7	5.2	5.2	54	53	10-99	1	25	
2-Methylnaphthalene	ug/L	ND	9.7	9.7	5.7	5.2	58	52	10-89	10	25	
2-Methylphenol(o-Cresol)	ug/L	ND	9.7	9.7	4.8	4.6	50	47	10-120	5	25	
2-Nitroaniline	ug/L	ND	9.7	9.7	6.8	7.1	70	73	31-120	5	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978283 1978284

Parameter	Units	30376571003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Nitrophenol	ug/L	ND	9.7	9.7	5.5	5.5	57	57	14-97	0	25	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	19.3	19.3	9.3	8.6	48	44	10-132	8	25	
3,3'-Dichlorobenzidine	ug/L	ND	9.7	9.7	ND	ND	0	0	10-112		25	ML
3-Nitroaniline	ug/L	ND	9.7	9.7	1.9J	2.3J	18	21	10-138		25	
4,6-Dinitro-2-methylphenol	ug/L	ND	9.7	9.7	9.9	9.0	103	93	14-154	10	25	
4-Bromophenylphenyl ether	ug/L	ND	9.7	9.7	7.4	7.0	77	72	32-114	6	25	
4-Chloro-3-methylphenol	ug/L	ND	9.7	9.7	6.4	6.2	66	65	11-127	2	25	
4-Chloroaniline	ug/L	ND	9.7	9.7	2.5	2.7	26	28	10-90	10	25	
4-Chlorophenylphenyl ether	ug/L	ND	9.7	9.7	5.6	5.9	58	61	24-110	5	25	
4-Nitroaniline	ug/L	ND	9.7	9.7	3.0	3.2	31	33	10-168	7	25	
4-Nitrophenol	ug/L	ND	9.7	9.7	ND	ND	0	0	10-82		25	ML
Acenaphthene	ug/L	ND	9.7	9.7	5.6	5.8	54	56	19-104	4	25	
Acenaphthylene	ug/L	ND	9.7	9.7	5.3	5.4	55	56	15-102	2	25	
Anthracene	ug/L	ND	9.7	9.7	8.8	8.1	91	84	34-108	8	25	
Azobenzene	ug/L	ND	9.7	9.7	6.7	6.4	69	66	15-113	5	25	
Benzo(a)anthracene	ug/L	ND	9.7	9.7	9.0	8.3	93	86	46-122	8	25	
Benzo(a)pyrene	ug/L	ND	9.7	9.7	9.7	8.7	101	90	39-117	11	25	
Benzo(b)fluoranthene	ug/L	ND	9.7	9.7	11.7	10.2	121	106	33-147	14	25	
Benzo(g,h,i)perylene	ug/L	ND	9.7	9.7	4.6	4.5	48	46	10-124	3	25	
Benzo(k)fluoranthene	ug/L	ND	9.7	9.7	9.9	9.1	103	94	44-130	9	25	
Benzoic acid	ug/L	ND	9.7	9.7	3.3J	3.3J	31	31	10-99		25	4c
Benzyl alcohol	ug/L	ND	9.7	9.7	5.3	5.1	55	52	10-136	5	25	
bis(2-Chloroethoxy)methane	ug/L	ND	9.7	9.7	5.3	4.5	55	47	10-99	15	25	
bis(2-Chloroethyl) ether	ug/L	ND	9.7	9.7	5.0	5.1	52	53	10-108	2	25	
bis(2-Chloroisopropyl) ether	ug/L	ND	9.7	9.7	4.9	4.9	51	51	10-110	1	25	
bis(2-Ethylhexyl)phthalate	ug/L	ND	9.7	9.7	10.3	9.4	105	95	43-136	9	25	
Butylbenzylphthalate	ug/L	ND	9.7	9.7	10.9	9.9	113	103	51-134	9	25	
Carbazole	ug/L	ND	9.7	9.7	9.3	8.7	96	90	50-114	7	25	
Chrysene	ug/L	ND	9.7	9.7	9.0	8.3	93	86	44-121	9	25	
Di-n-butylphthalate	ug/L	ND	9.7	9.7	10.1	9.2	102	93	50-123	9	25	
Di-n-octylphthalate	ug/L	ND	9.7	9.7	11.1	9.5	115	98	27-164	16	25	3c
Dibenz(a,h)anthracene	ug/L	ND	9.7	9.7	6.0	5.7	62	59	11-127	5	25	
Dibenzofuran	ug/L	ND	9.7	9.7	5.4	5.6	56	58	22-105	3	25	
Diethylphthalate	ug/L	ND	9.7	9.7	7.5	7.8	77	80	38-122	4	25	
Dimethylphthalate	ug/L	ND	9.7	9.7	6.1	6.5	63	67	30-121	6	25	
Fluoranthene	ug/L	ND	9.7	9.7	9.7	9.0	100	93	39-124	7	25	
Fluorene	ug/L	ND	9.7	9.7	6.3	6.6	61	64	23-111	4	25	
Hexachloro-1,3-butadiene	ug/L	ND	9.7	9.7	4.7	4.8	48	49	10-99	2	25	
Hexachlorobenzene	ug/L	ND	9.7	9.7	7.1	6.7	74	69	34-114	6	25	
Hexachlorocyclopentadiene	ug/L	ND	9.7	9.7	4.4	4.6	46	47	10-65	4	25	
Hexachloroethane	ug/L	ND	9.7	9.7	4.1	4.2	42	44	10-128	4	25	
Indeno(1,2,3-cd)pyrene	ug/L	ND	9.7	9.7	5.8	5.6	60	58	11-126	5	25	
Isophorone	ug/L	ND	9.7	9.7	5.5	5.2	56	54	10-102	5	25	
N-Nitroso-di-n-propylamine	ug/L	ND	9.7	9.7	5.6	5.3	58	55	10-124	4	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30376571

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978283 1978284

Parameter	Units	30376571003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
N-Nitrosodimethylamine	ug/L	ND	9.7	9.7	3.5	3.5	36	36	10-72	1	25	
N-Nitrosodiphenylamine	ug/L	ND	9.7	9.7	7.3	7.0	76	72	10-110	5	25	
Naphthalene	ug/L	ND	9.7	9.7	5.1	5.0	49	48	10-84	1	25	
Nitrobenzene	ug/L	ND	9.7	9.7	5.3	5.3	55	54	11-114	1	25	
Pentachlorophenol	ug/L	ND	9.7	9.7	13.3	12.1	138	125	10-175	10	25	
Phenanthrene	ug/L	ND	9.7	9.7	9.5	8.1	98	84	34-117	15	25	
Phenol	ug/L	ND	9.7	9.7	2.1	2.0	21	20	10-46	4	25	
Pyrene	ug/L	ND	9.7	9.7	9.7	8.9	99	91	35-127	9	25	
2,4,6-Tribromophenol (S)	%.						90	84	10-140			
2-Fluorobiphenyl (S)	%.						41	44	10-135			
2-Fluorophenol (S)	%.						27	27	10-142			
Nitrobenzene-d5 (S)	%.						57	55	10-140			
Phenol-d6 (S)	%.						19	18	10-145			
Terphenyl-d14 (S)	%.						84	78	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Green Island
Pace Project No.: 30376571

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1c	The PDS recovery was outside of the laboratory control limits. Result may be biased high
2c	The PDS recovery was outside of the laboratory control limits. Result may be biased low.
3c	The read back of the low concentration calibration standard for this compound is not within 30% of the true value. The results may be biased high and should be considered estimated.
4c	The read back of the low concentration calibration standard for this compound is not within 30% of the true value. The results may be biased low and should be considered estimated.
B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Green Island
Pace Project No.: 30376571

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30376571001	**MW-33**	EPA 3005A	409014	EPA 6010C	409183
30376571002	**DUP**	EPA 3005A	409014	EPA 6010C	409183
30376571003	**MW-32**	EPA 3005A	409014	EPA 6010C	409183
30376571001	**MW-33**	EPA 3005A	409013	EPA 6010C	409182
30376571002	**DUP**	EPA 3005A	409013	EPA 6010C	409182
30376571003	**MW-32**	EPA 3005A	409013	EPA 6010C	409182
30376571001	**MW-33**	EPA 7470A	408666	EPA 7470A	408690
30376571002	**DUP**	EPA 7470A	408666	EPA 7470A	408690
30376571003	**MW-32**	EPA 7470A	408666	EPA 7470A	408690
30376571001	**MW-33**	EPA 7470A	409153	EPA 7470A	409189
30376571002	**DUP**	EPA 7470A	409153	EPA 7470A	409189
30376571003	**MW-32**	EPA 7470A	409153	EPA 7470A	409189
30376571001	**MW-33**	EPA 3510C	408776	EPA 8270D	408863
30376571002	**DUP**	EPA 3510C	408776	EPA 8270D	408863
30376571003	**MW-32**	EPA 3510C	408776	EPA 8270D	408863

Pace Analytical®
WWW.PACELABS.COM

CHAIN-(... ment
The Chain-of ... ompleted accurately.

WO#: 30376571

30376571

Page : 1 Of 1

Section A
Required Client Information:

Company:	Envirospec Engineering
Address:	349 Northern Blvd, Suite 3
	Albany, NY 12204
Email:	rfarnum@envirospeceng.com
Phone:	518453-2203 Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Rachel Farnum
Copy To:	
Purchase Order #:	
Project Name:	Green Island
Project #:	

Attention:	Adam Schultz
Company Name:	Couch White
Address:	P.O. Box 22222 Albany, NY
Pace Quote:	
Pace Project Manager:	haccount@pacelabs.com Samantha Bayura
Pace Profile #:	0

Regulatory Agency
State / Location
NY

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TCL 8270 SVOCs	Total Metals by 6010/7471	Dissolved Metals by 6010/74	Residual Chlorine (Y/N)	
1	MW-33					8/7/20	0820												X	X	X		001
2	DUP					8/7/20	0820												X	X	X		002
3	MW-32					8/7/20	0919												X	X	X		003
4	MS					8/7/20	0919												X	X	X		004
5	MSD					8/7/20	0919												X	X	X		005
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
To Pittsburgh	[signature]			[signature] PACE	8-7-20	1234				
Lab filtration required for dissolved metals	[signature] PACE	8-7-20	1600	FEDEX						
				[signature]	8/8/20	1100	5.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Rascona

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/7/20

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enviespec Project #: #30376571

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Label JSM
LIMS Login JSM

Tracking #: 9099 9900 3041

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 5.6 °C Correction Factor: +0.3 °C Final Temp: 5.9 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# 1005191 / Date and Initials of person examining contents: JSM 8/2/2020
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓	✓		5. JSM 8/2/2020, One Amber glass for sample MW-32, 3 mislabed as MW-33
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.
All containers meet method preservation requirements.	✓			Initial when completed JSM / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:			✓	18.
Trip Blank Custody Seals Present			✓	
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed: JSM / Date: 8/3/2020

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.