# QUARTERLY GROUNDWATER MONITORING REPORT

**South Island Apartments Site**

**Starbuck Drive,**

**Town of Green Island, Albany County, New York**

**BCP Site # C401074**

## August 2020

***Prepared for:***
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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***

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# 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 – MAY 2020

The 2nd quarter 2020 groundwater sampling event was completed on May 11, 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 | - | 27.2 | +3 | 0 |
| MW-33 | - | 26.9 | +4.1 | 0[a] |

[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. It should be noted that issues with very high turbidity were encountered in MW-33. This is suspected to be due to the fine clay layer present at the water table. After purging, samples were collected using the submersible pump. A duplicate and MS/MSD samples were collected from MW-32 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 Table 2 and in Appendix C. Full laboratory analytical results are included as Appendix D. Exceedances for iron, manganese, and sodium are not included in Table 2.

Table 2. Summary of Groundwater Exceedances.

| Analyte | Part 703 Standard (ppb) | MW-32 (ppb) | MW-32 DUP (ppb) | MW-33 (ppb) |
|---|---|---|---|---|
| 2,4-Dimethylphenol | 1[a] | ND | ND | 34 |
| 2,4-Dinitrotoluene | 5 | ND | ND | 50.4 |
| 3-Nitroaniline | 5 | ND | ND | 35.8 |
| 4-Chloroaniline | 5 | ND | ND | 16.5 |
| 4-Nitroaniline | 5 | ND | ND | 35.8 |
| Nitrobenzene | 0.4 | ND | ND | 31.4 |

[a] = Standard is based on standard for total phenols
ND = Non-detect

No exceedances, other than iron, manganese, and sodium, were detected in MW-32 or the duplicate for MW-32. Exceedances were detected for 2,4-dimethylphenol, 2,4-dinitrotoluene, 3-nitroaniline, 4-chloroaniline, 4-nitroaniline, and nitrobenzene in MW-33. Detections of 3-nitroaniline, 4-chloroaniline, and 4-nitroaniline are not consistent with historical soil or groundwater results at the site.

## 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 Summer 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.

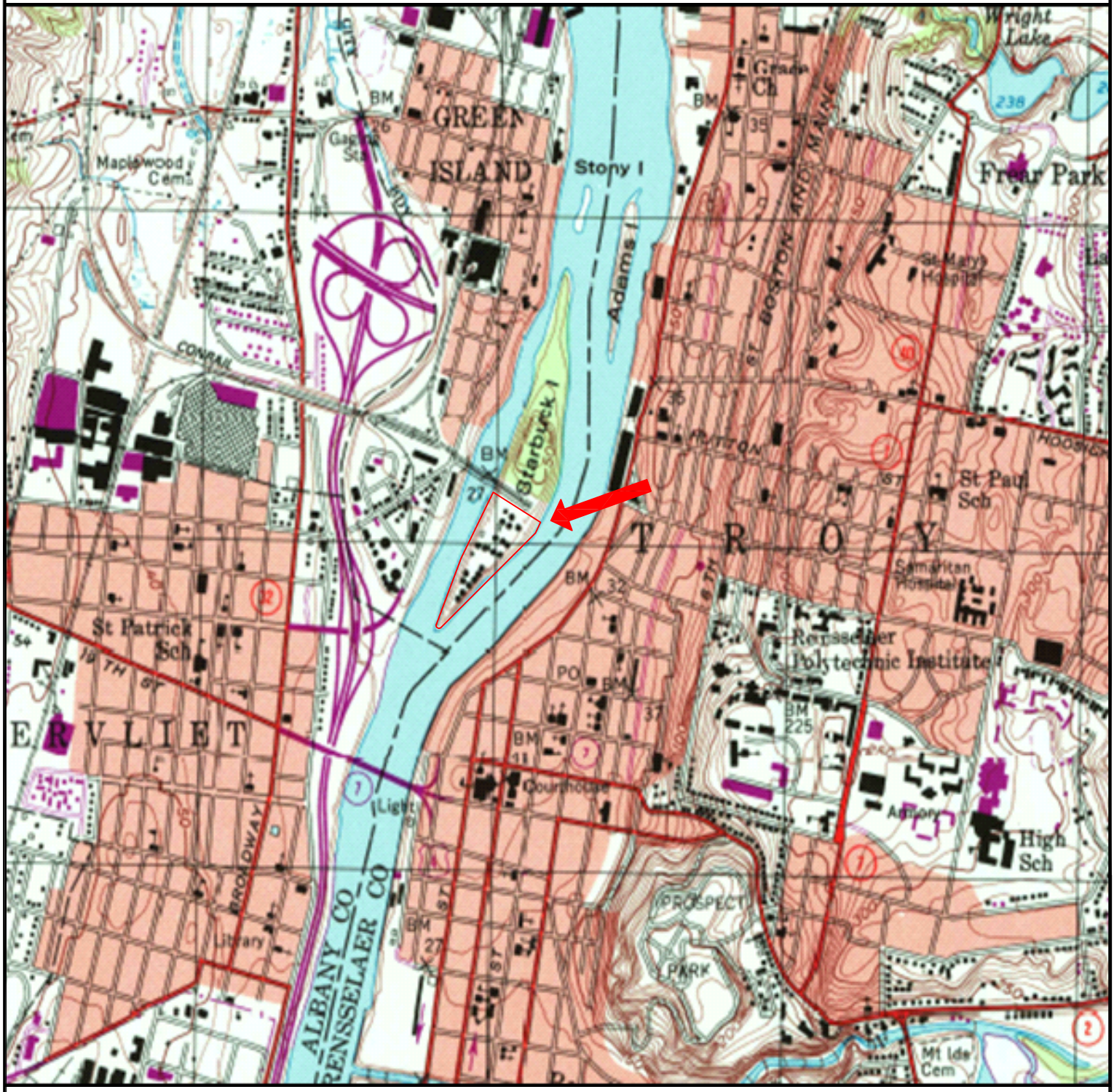
Envirospec. 2018d. Remedial Action Work Plan for South Island Apartments, BCP Site #C401074. October 2018.

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

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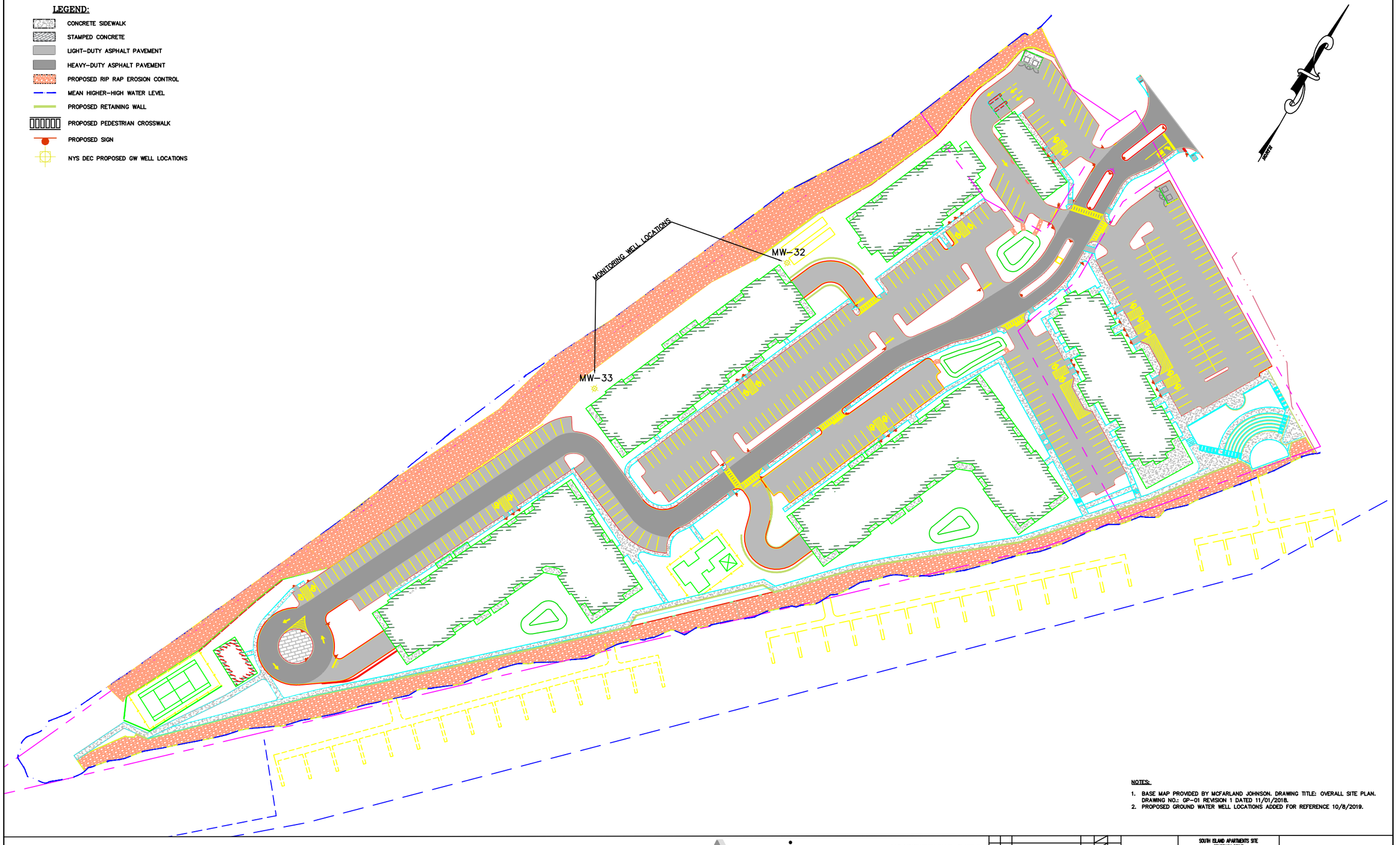
# DRAWINGS

D-1 SITE PLAN

**LEGEND:**

- CONCRETE SIDEWALK
- STAMPED CONCRETE
- LIGHT-DUTY ASPHALT PAVEMENT
- HEAVY-DUTY ASPHALT PAVEMENT
- PROPOSED RIP RAP EROSION CONTROL
- MEAN HIGHER-HIGH WATER LEVEL
- PROPOSED RETAINING WALL
- PROPOSED PEDESTRIAN CROSSWALK
- PROPOSED SIGN
- NYS DEC PROPOSED GW WELL LOCATIONS




NOTES:

1. BASE MAP PROVIDED BY MCFARLAND JOHNSON, DRAWING TITLE: OVERALL SITE PLAN. DRAWING NO.: GP-01 REVISION 1 DATED 11/01/2018.
2. PROPOSED GROUND WATER WELL LOCATIONS ADDED FOR REFERENCE 10/8/2019.

ENVIROSPEC PROJECT #E17-1600

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| W.O. No. | REVISION | DATE | APR. |
|---|---|---|---|
| 1 | WELL LABELS ADDED | 11/18 | RF |

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
STARBUCK DRIVE
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

Well Locations

SCALE: NTS | DRAWING NO.: D-1 | SHEET: 1 | NO. OF SHEETS: 1

# APPENDIX A
# TAX MAP

envirospec ENGINEERING, PLLC

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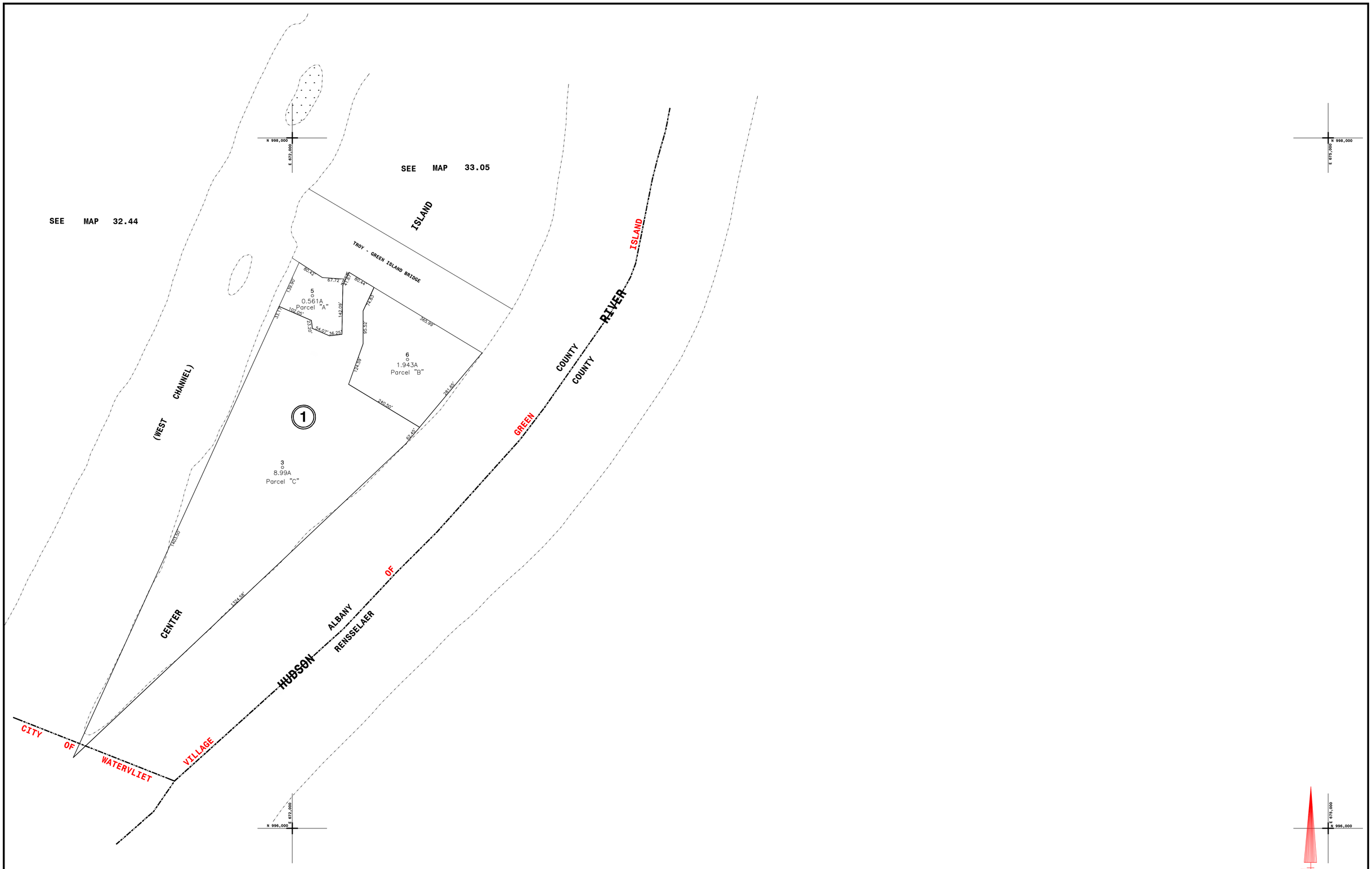
*A Woman Owned Business Enterprise (WBE)*




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. (9)
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

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| Well No: | MW-32 | |
|---|---|---|
| Date(s): | 5/11/2020 | |
| Weather | Temperature | |
| Mostly Cloudy | High: | 45°F |
| | Low: | 38°F |

# Well Sampling Field Record

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

**Well Info**

| Well #: | MW-32 | Well Location: | North of Building 25 | | |
|---|---|---|---|---|---|
| Well Diameter (in): | 2 | Well Condition: | | | |
| A. Total Well Depth (ft bgs): | 35.8 | Depth to Bedrock (ft): | | | |
| B. TOC to Grade (ft): | 0 | TOC Elevation (ft): | | | |
| C. Depth to Water TOC (ft): | 27.2 | G. Well Volume Factors: | 1" = 0.041 | 5" = 1.02 | 9" = 3.31 |
| D. Water Column Height (ft): | 8.6 | = (A + B) - C | 2" = 0.163 | 6" = 1.47 | 10" = 4.08 |
| E. Total Well Volume (gal): | 1.40 | = D*G | 3" = 0.367 | 7" = 1.99 | 11" = 4.93 |
| F. Purge (3 volumes) (gal): | 4.20 | = E*3 | 4" = 0.653 | 8" = 2.61 | 12" = 5.88 |

**Purge**

| Purge Date: | 5/11/2020 | Pump/Method: | Submersible Pump |
|---|---|---|---|
| Purge Start Time: | 8:25 | Approx Flow Rate: | ~1.5 gpm |
| Purge Stop Time: | 8:35 | Approx Volume Removed: | 5 gal. |
| Did well dry out? | No | | |

**Sampling**

| Date: | 5/11/2020 | pH: | (2.5 gal.) I: 7.4 | (6.5 gal.) II: 7.39 | III: 7.37 |
|---|---|---|---|---|---|
| Time: | 8:40 | Temp (ºC): | 14.58 | 14.39 | 14.59 |
| Sample ID: | MW-32 | Conductivity (mS/cm): | 1.08 | 1.09 | 1.08 |
| Sample Method: | | TDS (g/L): | | | |
| | | ORP (mV): | -97 | -96 | -95 |
| | | Turbidity (NTU): | | | |
| | | DO (mg/L): | 12.16 | 11.45 | 10.7 |

**Appearance**

No oil observed or measured.

**Comments**

DUP, MS, and MSD also collected during MW-32 well sampling. Turbidity was too high for equipment to evaluate.

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| Well No: | MW-33 | |
|---|---|---|
| Date(s): | 5/11/2020 | |
| Weather | Temperature | |
| Overcast | High: | 45°F |
| | Low: | 38°F |

# Well Sampling Field Record

| | | | |
|---|---|---|---|
| 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): | 36.6 | Depth to Bedrock (ft): | | | |
| B. TOC to Grade (ft): | 0 | TOC Elevation (ft): | | | |
| C. Depth to Water TOC (ft): | 26.9 | G. Well Volume Factors: | 1" = 0.041 | 5" = 1.02 | 9" = 3.31 |
| D. Water Column Height (ft): | 9.7 | = (A + B) - C | 2" = 0.163 | 6" = 1.47 | 10" = 4.08 |
| E. Total Well Volume (gal): | 1.58 | = D*G | 3" = 0.367 | 7" = 1.99 | 11" = 4.93 |
| F. Purge (3 volumes) (gal): | 4.74 | = E*3 | 4" = 0.653 | 8" = 2.61 | 12" = 5.88 |

**Purge**

| | | | |
|---|---|---|---|
| Purge Date: | 5/11/2020 | Pump/Method: | Submersible |
| Purge Start Time: | 9:20 | Approx Flow Rate: | ~1.5 gpm |
| Purge Stop Time: | 9:27 | Approx Volume Removed: | 5 gallons |
| Did well dry out? | No | | |

**Sampling**

| | | | I | II | III |
|---|---|---|---|---|---|
| Date: | 5/11/2020 | pH: | 7.4 | 7.35 | 7.34 |
| Time: | 9:30 | Temp (ºC): | 14.81 | 14.81 | 14.86 |
| Sample ID: | MW-33 | Conductivity (mS/cm): | 1.56 | 1.55 | 1.51 |
| Sample Method: | | TDS (g/L): | | | |
| | | ORP (mV): | -72 | -94 | -93 |
| | | Turbidity (NTU): | | | |
| | | DO (mg/L): | 10.4 | 10.20 | 10.12 |

**Appearance**

No oil was measured, but an oily residue was observed on the probe.

**Comments**

# APPENDIX C
# TABLE OF SAMPLE RESULTS

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*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-33 1/16/20 | MW-33 DUP 1/16/20 | MW-33 5/11/20 |
|---|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | | |
| Aluminum | | 3360 | 556 | 544 | 5980 | 5290 | 18400 |
| Antimony | 3 | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | ND | 7.4 | ND | 8.8 |
| Barium | 1000 | 315 | 312 | 305 | 269 | 269 | 252 |
| Beryllium | | ND | ND | ND | ND | ND | ND |
| Boron | | 602 | 514 | 512 | 464 | 466 | 383 |
| Cadmium | 5 | ND | ND | ND | ND | ND | ND |
| Calcium | | 230000 | 173000 | 169000 | 167000 | 231000 | 189000 |
| Chromium | 50 | 7 | ND | ND | 9.5 | 9 | 24.5 |
| Cobalt | | ND | ND | ND | ND | ND | 10.9 |
| Copper | 200 | 11.5 | ND | ND | 16.1 | 16.1 | 44.2 |
| Iron | 300 | 28500 | 23600 | 24000 | 24500 | 23300 | 44000 |
| Lead | 25 | 11.3 | ND | ND | 19.8 | 16.9 | 59.2 |
| Magnesium | | 25400 | 26000 | 25400 | 27400 | 27300 | 26100 |
| Manganese | 300 | 4810 | 6060 | 5930 | 2140 | 2150 | 2130 |
| Molybdenum | | ND | ND | ND | ND | ND | ND |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | ND | ND | ND | ND | ND | 27.7 |
| Potassium | | 10400 | 9740 | 9470 | 28700 | 28900 | 24500 |
| Selenium | 10 | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND |
| Sodium | 20000 | 21800 | 20500 | 20000 | 152000 | 153000 | 115000 |
| Thallium | | ND | ND | ND | ND | ND | ND |
| Vanadium | | ND | ND | ND | 9.8 | 9 | 33.9 |
| Zinc | | 24.3 | ND | ND | 32.1 | 27.8 | 104 |
| **Dissolved Metals** | | | | | | | |
| Aluminum, Dissolved | | ND | ND | ND | ND | ND | ND |
| Antimony, Dissolved | 3 | ND | ND | ND | ND | ND | ND |
| Arsenic, Dissolved | 25 | ND | ND | ND | ND | ND | ND |
| Barium, Dissolved | 1000 | 215 | 205 | 193 | 148 | 156 | 115 |
| Beryllium, Dissolved | | ND | ND | ND | ND | ND | ND |
| Boron, Dissolved | | 609 | 456 | 479 | 472 | 472 | 375 |
| Cadmium, Dissolved | 5 | ND | ND | ND | ND | ND | ND |
| Calcium, Dissolved | | 165000 | 157000 | 150000 | 229000 | 233000 | 181000 |
| Chromium, Dissolved | 50 | ND | ND | ND | ND | ND | ND |
| Cobalt, Dissolved | | ND | ND | ND | ND | ND | ND |
| Copper, Dissolved | 200 | ND | ND | ND | ND | ND | 7.2 |
| Iron, Dissolved | 300 | 546 | 1350 | 1200 | 321 | ND | 258 |
| Lead, Dissolved | 25 | ND | ND | ND | ND | ND | ND |
| Magnesium, Dissolved | | 24600 | 23600 | 22500 | 25700 | 26000 | 19900 |
| Manganese, Dissolved | 300 | 4800 | 5500 | 5220 | 1780 | 2010 | 1780 |
| Molybdenum, Dissolved | | ND | ND | ND | ND | ND | ND |
| Mercury, Dissolved | 0.7 | ND | ND | ND | ND | ND | ND |
| Nickel, Dissolved | 100 | ND | ND | ND | ND | ND | ND |
| Potassium, Dissolved | | 9780 | 8790 | 8540 | 28300 | 28800 | 21800 |
| Selenium, Dissolved | 10 | ND | ND | ND | ND | ND | ND |
| Silver, Dissolved | 50 | ND | ND | ND | ND | ND | ND |
| Sodium, Dissolved | 20000 | 21900 | 19000 | 18200 | 156000 | 157000 | 113000 |
| Thallium, Dissolved | | ND | ND | ND | ND | ND | ND |
| Vanadium, Dissolved | | ND | ND | ND | ND | ND | ND |
| Zinc, Dissolved | | ND | ND | ND | ND | ND | ND |
| **SVOCs** | | | | | | | |
| 1,2,4-Trichlorobenzene | | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | | ND | ND | ND | ND | ND | ND |
| 1-Methylnaphthalene | | 8.2 | ND | ND | ND | 1.1 | ND |
| 2,4,5-Trichlorophenol | | ND | ND | ND | ND | 4.6 | ND |
| 2,4,6-Trichlorophenol | | ND | ND | ND | ND | ND | ND |
| 2,4-Dichlorophenol **(1)** | 1 | ND | ND | ND | ND | ND | ND |
| 2,4-Dimethylphenol **(1)** | 1 | ND | ND | ND | ND | 2.7 | 34.2 |
| 2,4-Dinitrophenol **(1)** | 1 | ND | ND | ND | ND | ND | ND |
| 2,4-Dinitrotoluene | 5 | 2.3 | ND | ND | 1.7 | ND | 50.4 |
| 2,6-Dinitrotoluene | 5 | ND | ND | ND | ND | 11.8 | ND |
| 2-Chloronaphthalene | | ND | ND | ND | ND | ND | ND |
| 2-Chlorophenol | | ND | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | | ND | ND | ND | ND | ND | ND |
| 2-Methylphenol(o-Cresol) | | ND | ND | ND | ND | ND | ND |
| 2-Nitroaniline | 5 | ND | ND | ND | ND | ND | ND |
| 2-Nitrophenol | | ND | ND | ND | ND | ND | ND |
| 3&4-Methylphenol(m&p Cresol) | | ND | ND | ND | ND | ND | ND |
| 3,3'-Dichlorobenzidine | 5 | ND | ND | ND | ND | ND | ND |
| 3-Nitroaniline | 5 | ND | ND | ND | ND | ND | 35.8 |
| 4,6-Dinitro-2-methylphenol | | ND | ND | ND | ND | ND | ND |
| 4-Bromophenylphenyl ether | | ND | ND | ND | ND | ND | ND |
| 4-Chloro-3-methylphenol | | ND | ND | ND | ND | 2.2 | ND |
| 4-Chloroaniline | 5 | ND | ND | ND | ND | 1.9 | 16.5 |
| 4-Chlorophenylphenyl ether | | ND | ND | ND | ND | ND | ND |
| 4-Nitroaniline | 5 | ND | ND | ND | ND | ND | 35.8 |
| 4-Nitrophenol | | ND | ND | ND | ND | ND | ND |
| Acenaphthene | | 2.6 | ND | ND | 2.7 | ND | ND |
| Acenaphthylene | | ND | ND | ND | ND | 12.7 | 22.1 |
| Anthracene | | 1.4 | ND | ND | ND | 12.8 | 88.3 |
| Azobenzene | | ND | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | | ND | ND | ND | ND | ND | ND |

## 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-33 1/16/20 | MW-33 DUP 1/16/20 | MW-33 5/11/20 |
|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | | ND | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | | ND | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | | ND | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | | ND | ND | ND | ND | ND | ND |
| Benzoic acid | | ND | ND | ND | ND | ND | ND |
| Benzyl alcohol | | ND | ND | ND | ND | ND | ND |
| bis(2-Chloroethoxy)methane | 5 | ND | ND | ND | ND | ND | ND |
| bis(2-Chloroethyl) ether | 1 | ND | ND | ND | ND | ND | ND |
| bis(2-Chloroisopropyl) ether | 5 | ND | ND | ND | ND | ND | ND |
| bis(2-Ethylhexyl)phthalate | 5 | 1.1 | ND | ND | 2.4 | 1.9 | ND |
| Butylbenzylphthalate | | ND | ND | ND | ND | ND | ND |
| Carbazole | | ND | ND | ND | ND | ND | ND |
| Chrysene | | ND | ND | ND | ND | 1.7 | 15.5 |
| Dibenz(a,h)anthracene | 50 | ND | ND | ND | ND | ND | ND |
| Dibenzofuran | | 1.2 | ND | ND | 2.0 | 7.6 | ND |
| Diethylphthalate | | ND | ND | ND | ND | ND | ND |
| Dimethylphthalate | | ND | ND | ND | ND | ND | 20 |
| Di-n-butylphthalate | 50 | ND | ND | ND | ND | ND | ND |
| Di-n-octylphthalate | | ND | ND | ND | ND | ND | ND |
| Fluoranthene | | ND | ND | ND | ND | 1.9 | ND |
| Fluorene | | 4.1 | ND | ND | 4.2 | 5.5 | ND |
| Hexachloro-1,3-butadiene | | ND | ND | ND | ND | ND | ND |
| Hexachlorobenzene | 0.04 | ND | ND | ND | ND | ND | ND |
| Hexachlorocyclopentadiene | 5 | ND | ND | ND | ND | ND | ND |
| Hexachloroethane | 5 | ND | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | | ND | ND | ND | ND | ND | ND |
| Isophorone | | ND | ND | ND | ND | ND | ND |
| Naphthalene | | ND | ND | ND | ND | 1.7 | ND |
| Nitrobenzene | 0.4 | 1.3 | ND | ND | ND | 3.2 | 31.4 |
| N-Nitrosodimethylamine | | ND | ND | ND | ND | ND | ND |
| N-Nitroso-di-n-propylamine | | ND | ND | ND | ND | ND | ND |
| N-Nitrosodiphenylamine | | 3.7 | ND | ND | 2.1 | 4.6 | 95.6 |
| Pentachlorophenol **(1)** | 1 | ND | ND | ND | ND | ND | ND |
| Phenanthrene | | 3.6 | ND | ND | 3.6 | ND | ND |
| Phenol **(1)** | 1 | ND | ND | ND | ND | ND | ND |
| Pyrene | | ND | ND | ND | ND | 3.9 | ND |

**(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

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)*

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

May 20, 2020

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

RE: Project: Green Island
Pace Project No.: 30362816

Dear Ms. Farnum:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 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**
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## CERTIFICATIONS

Project: Green Island
Pace Project No.: 30362816

**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**
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## SAMPLE SUMMARY

Project: Green Island
Pace Project No.: 30362816

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **30362816001** | **MW-32** | Water | 05/11/20 08:40 | 05/13/20 09:15 |
| **30362816002** | **DUP** | Water | 05/11/20 08:40 | 05/13/20 09:15 |
| **30362816003** | **MW-33** | Water | 05/11/20 09:30 | 05/13/20 09:15 |

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## SAMPLE ANALYTE COUNT

Project: Green Island
Pace Project No.: 30362816

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **30362816001** | **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 |
| **30362816002** | **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 |
| **30362816003** | **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 |

PASI-PA = Pace Analytical Services - Greensburg

## 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.: 30362816

**Method:** **EPA 6010C**
**Description:** 6010C MET ICP
**Client:** Envirospec Engineering
**Date:** May 20, 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: 396328

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30362816001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MSD (Lab ID: 1919665)
  - Calcium

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

- MS (Lab ID: 1919664)
  - Calcium
  - Magnesium
  - Manganese

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

**Additional Comments:**

**Pace Analytical Services, LLC**
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Greensburg, PA 15601
(724)850-5600

# PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30362816

**Method:** **EPA 6010C**
**Description:** 6010C MET ICP
**Client:** Envirospec Engineering
**Date:** May 20, 2020

Analyte Comments:

QC Batch: 396328

3c: The precision between the sample and serial dilution exceeded laboratory control limits.

- MW-32 (Lab ID: 30362816001)
  - Aluminum

**Pace Analytical Services, LLC**
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# PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30362816

**Method:** **EPA 6010C**
**Description:** 6010C MET ICP, Lab Filtered
**Client:** Envirospec Engineering
**Date:** May 20, 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: 396642

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30362816001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1921263)
  - Calcium, Dissolved
  - Manganese, Dissolved
  - Sodium, Dissolved

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

**Additional Comments:**

Analyte Comments:

QC Batch: 396642

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

- MW-32 (Lab ID: 30362816001)
  - Calcium, Dissolved

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
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Greensburg, PA 15601
(724)850-5600

# PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30362816

**Method:** **EPA 6010C**
**Description:** 6010C MET ICP, Lab Filtered
**Client:** Envirospec Engineering
**Date:** May 20, 2020

Analyte Comments:

QC Batch: 396642

- MW-32 (Lab ID: 30362816001)
  - Sodium, Dissolved

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
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(724)850-5600

# PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30362816

**Method:** **EPA 7470A**
**Description:** 7470 Mercury
**Client:** Envirospec Engineering
**Date:** May 20, 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: 396592

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

- MW-32 (Lab ID: 30362816001)
  - Mercury

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# PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30362816

**Method:** **EPA 7470A**
**Description:** 7470 Mercury, Lab Filtered
**Client:** Envirospec Engineering
**Date:** May 20, 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: 396838

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

- MW-32 (Lab ID: 30362816001)
  - Mercury, Dissolved

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# PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30362816

**Method:** **EPA 8270D**
**Description:** 8270D MSSV Organics
**Client:** Envirospec Engineering
**Date:** May 20, 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: 30362816002)
- MW-32 (Lab ID: 30362816001)
- MW-33 (Lab ID: 30362816003)

**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.

QC Batch: 396342

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- BLANK (Lab ID: 1919688)
  - 2,4-Dinitrophenol
- LCS (Lab ID: 1919689)
  - 2,4-Dinitrophenol
- MS (Lab ID: 1919690)
  - 2,4-Dinitrophenol
- MSD (Lab ID: 1919691)
  - 2,4-Dinitrophenol
- MW-32 (Lab ID: 30362816001)
  - 2,4-Dinitrophenol

**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: 396342

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- MW-33 (Lab ID: 30362816003)
  - 2-Fluorobiphenyl (S)

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Greensburg, PA 15601
(724)850-5600

# PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30362816

**Method:** **EPA 8270D**
**Description:** 8270D MSSV Organics
**Client:** Envirospec Engineering
**Date:** May 20, 2020

QC Batch: 396342

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- Nitrobenzene-d5 (S)
- Terphenyl-d14 (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: 396342

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: 1919689)
  - Benzoic acid

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

**Additional Comments:**

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

**Pace Analytical Services, LLC**
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Greensburg, PA 15601
(724)850-5600

## ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30362816

**Sample: MW-32** **Lab ID: 30362816001** Collected: 05/11/20 08:40 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Aluminum | **556** | ug/L | 50.0 | 20.3 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7429-90-5 | 3c |
| Antimony | ND | ug/L | 6.0 | 3.3 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-36-0 | |
| Arsenic | ND | ug/L | 5.0 | 2.0 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-38-2 | |
| Barium | **312** | ug/L | 10.0 | 0.68 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 0.17 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-41-7 | |
| Boron | **514** | ug/L | 50.0 | 2.3 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-42-8 | |
| Cadmium | ND | ug/L | 3.0 | 0.34 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-43-9 | |
| Calcium | **173000** | ug/L | 1000 | 99.9 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-70-2 | MH,ML |
| Chromium | ND | ug/L | 5.0 | 0.35 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-47-3 | |
| Cobalt | ND | ug/L | 5.0 | 0.53 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-48-4 | |
| Copper | ND | ug/L | 5.0 | 2.7 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-50-8 | |
| Iron | **24000** | ug/L | 70.0 | 40.9 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7439-89-6 | |
| Lead | ND | ug/L | 5.0 | 4.9 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7439-92-1 | |
| Magnesium | **26000** | ug/L | 200 | 28.4 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7439-95-4 | ML |
| Manganese | **6060** | ug/L | 5.0 | 1.2 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7439-96-5 | ML |
| Molybdenum | ND | ug/L | 20.0 | 0.85 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7439-98-7 | |
| Nickel | ND | ug/L | 10.0 | 1.5 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-02-0 | |
| Potassium | **9740** | ug/L | 500 | 72.4 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-09-7 | |
| Selenium | ND | ug/L | 8.0 | 5.5 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7782-49-2 | |
| Silver | ND | ug/L | 6.0 | 1.4 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-22-4 | |
| Sodium | **20500** | ug/L | 1000 | 423 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-23-5 | |
| Thallium | ND | ug/L | 10.0 | 4.0 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-28-0 | |
| Vanadium | ND | ug/L | 5.0 | 0.57 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-62-2 | |
| Zinc | ND | ug/L | 10.0 | 2.4 | 1 | 05/14/20 06:32 | 05/19/20 08:37 | 7440-66-6 | |
| **6010C MET ICP, Lab Filtered** | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Aluminum, Dissolved | ND | ug/L | 50.0 | 20.3 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7429-90-5 | |
| Antimony, Dissolved | ND | ug/L | 6.0 | 3.3 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-36-0 | |
| Arsenic, Dissolved | ND | ug/L | 5.0 | 2.0 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-38-2 | |
| Barium, Dissolved | **205** | ug/L | 10.0 | 0.68 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-39-3 | |
| Beryllium, Dissolved | ND | ug/L | 1.0 | 0.17 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-41-7 | |
| Boron, Dissolved | **456** | ug/L | 50.0 | 2.3 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-42-8 | |
| Cadmium, Dissolved | ND | ug/L | 3.0 | 0.34 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-43-9 | |
| Calcium, Dissolved | **157000** | ug/L | 1000 | 99.9 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-70-2 | 2c,MH |
| Chromium, Dissolved | ND | ug/L | 5.0 | 0.35 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-47-3 | |
| Cobalt, Dissolved | ND | ug/L | 5.0 | 0.53 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-48-4 | |
| Copper, Dissolved | ND | ug/L | 5.0 | 2.7 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-50-8 | |
| Iron, Dissolved | **1350** | ug/L | 70.0 | 40.9 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7439-89-6 | |
| Lead, Dissolved | ND | ug/L | 5.0 | 4.9 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7439-92-1 | |
| Magnesium, Dissolved | **23600** | ug/L | 200 | 28.4 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7439-95-4 | |
| Manganese, Dissolved | **5500** | ug/L | 5.0 | 1.2 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7439-96-5 | MH |
| Molybdenum, Dissolved | ND | ug/L | 20.0 | 0.85 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7439-98-7 | |
| Nickel, Dissolved | ND | ug/L | 10.0 | 1.5 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-02-0 | |
| Potassium, Dissolved | **8790** | ug/L | 500 | 72.4 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 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.: 30362816

**Sample: MW-32** **Lab ID: 30362816001** Collected: 05/11/20 08:40 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Selenium, Dissolved | ND | ug/L | 8.0 | 5.5 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7782-49-2 | |
| Silver, Dissolved | ND | ug/L | 6.0 | 1.4 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-22-4 | |
| Sodium, Dissolved | **19000** | ug/L | 1000 | 423 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-23-5 | MH |
| Thallium, Dissolved | ND | ug/L | 10.0 | 4.0 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-28-0 | |
| Vanadium, Dissolved | ND | ug/L | 5.0 | 0.57 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-62-2 | |
| Zinc, Dissolved | ND | ug/L | 10.0 | 2.4 | 1 | 05/15/20 15:24 | 05/19/20 09:11 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.030 | 1 | 05/15/20 11:31 | 05/15/20 19:24 | 7439-97-6 | 1c |
| **7470 Mercury, Lab Filtered** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Mercury, Dissolved | ND | ug/L | 0.20 | 0.030 | 1 | 05/18/20 19:12 | 05/19/20 17:51 | 7439-97-6 | 1c |
| **8270D MSSV Organics** | Analytical Method: EPA 8270D Preparation Method: EPA 3510C<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Acenaphthene | ND | ug/L | 9.7 | 3.8 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 83-32-9 | ED |
| Acenaphthylene | ND | ug/L | 9.7 | 3.7 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 208-96-8 | ED |
| Anthracene | ND | ug/L | 9.7 | 2.6 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 120-12-7 | ED |
| Azobenzene | ND | ug/L | 9.7 | 3.4 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 103-33-3 | ED |
| Benzo(a)anthracene | ND | ug/L | 9.7 | 2.0 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 56-55-3 | ED |
| Benzo(a)pyrene | ND | ug/L | 9.7 | 1.8 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 50-32-8 | ED |
| Benzo(b)fluoranthene | ND | ug/L | 9.7 | 2.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 205-99-2 | ED |
| Benzo(g,h,i)perylene | ND | ug/L | 9.7 | 2.9 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 191-24-2 | ED |
| Benzo(k)fluoranthene | ND | ug/L | 9.7 | 2.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 207-08-9 | ED |
| Benzoic acid | ND | ug/L | 146 | 27.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 65-85-0 | ED,L1 |
| Benzyl alcohol | ND | ug/L | 9.7 | 6.8 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 100-51-6 | ED |
| 4-Bromophenylphenyl ether | ND | ug/L | 9.7 | 3.8 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 101-55-3 | ED |
| Butylbenzylphthalate | ND | ug/L | 9.7 | 2.9 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 85-68-7 | ED |
| Carbazole | ND | ug/L | 9.7 | 2.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 86-74-8 | ED |
| 4-Chloro-3-methylphenol | ND | ug/L | 9.7 | 4.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 59-50-7 | ED |
| 4-Chloroaniline | ND | ug/L | 9.7 | 2.1 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 106-47-8 | ED |
| bis(2-Chloroethoxy)methane | ND | ug/L | 9.7 | 3.4 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 111-91-1 | ED |
| bis(2-Chloroethyl) ether | ND | ug/L | 9.7 | 4.0 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 111-44-4 | ED |
| bis(2-Chloroisopropyl) ether | ND | ug/L | 9.7 | 3.9 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 108-60-1 | ED |
| 2-Chloronaphthalene | ND | ug/L | 9.7 | 3.2 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 91-58-7 | ED |
| 2-Chlorophenol | ND | ug/L | 9.7 | 3.2 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 95-57-8 | ED |
| 4-Chlorophenylphenyl ether | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 7005-72-3 | ED |
| Chrysene | ND | ug/L | 9.7 | 2.0 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 218-01-9 | ED |
| Dibenz(a,h)anthracene | ND | ug/L | 9.7 | 3.0 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 53-70-3 | ED |
| Dibenzofuran | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 132-64-9 | ED |
| 1,2-Dichlorobenzene | ND | ug/L | 9.7 | 3.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 95-50-1 | ED |
| 1,3-Dichlorobenzene | ND | ug/L | 9.7 | 2.9 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 541-73-1 | ED |
| 1,4-Dichlorobenzene | ND | ug/L | 9.7 | 2.7 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 106-46-7 | ED |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30362816

**Sample: MW-32** **Lab ID: 30362816001** Collected: 05/11/20 08:40 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| 3,3'-Dichlorobenzidine | ND | ug/L | 9.7 | 2.2 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 91-94-1 | ED,M6 |
| 2,4-Dichlorophenol | ND | ug/L | 9.7 | 3.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 120-83-2 | ED |
| Diethylphthalate | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 84-66-2 | ED |
| 2,4-Dimethylphenol | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 105-67-9 | ED,M6 |
| Dimethylphthalate | ND | ug/L | 9.7 | 4.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 131-11-3 | ED |
| Di-n-butylphthalate | ND | ug/L | 9.7 | 3.1 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 84-74-2 | ED |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | 24.3 | 6.2 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 534-52-1 | ED |
| 2,4-Dinitrophenol | ND | ug/L | 24.3 | 5.7 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 51-28-5 | CH,ED |
| 2,4-Dinitrotoluene | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 121-14-2 | ED |
| 2,6-Dinitrotoluene | ND | ug/L | 9.7 | 3.9 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 606-20-2 | ED |
| Di-n-octylphthalate | ND | ug/L | 9.7 | 2.6 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 117-84-0 | ED |
| bis(2-Ethylhexyl)phthalate | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 117-81-7 | ED |
| Fluoranthene | ND | ug/L | 9.7 | 2.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 206-44-0 | ED |
| Fluorene | ND | ug/L | 9.7 | 3.6 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 86-73-7 | ED |
| Hexachloro-1,3-butadiene | ND | ug/L | 9.7 | 3.2 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 87-68-3 | ED |
| Hexachlorobenzene | ND | ug/L | 9.7 | 3.0 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 118-74-1 | ED |
| Hexachlorocyclopentadiene | ND | ug/L | 9.7 | 1.9 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 77-47-4 | ED |
| Hexachloroethane | ND | ug/L | 9.7 | 2.9 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 67-72-1 | ED |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 9.7 | 3.0 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 193-39-5 | ED |
| Isophorone | ND | ug/L | 9.7 | 5.6 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 78-59-1 | ED |
| 1-Methylnaphthalene | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 90-12-0 | ED,M6 |
| 2-Methylnaphthalene | ND | ug/L | 9.7 | 3.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 91-57-6 | ED |
| 2-Methylphenol(o-Cresol) | ND | ug/L | 9.7 | 3.6 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 95-48-7 | ED |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/L | 19.4 | 18.4 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | | ED |
| Naphthalene | ND | ug/L | 9.7 | 3.4 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 91-20-3 | ED |
| 2-Nitroaniline | ND | ug/L | 24.3 | 6.9 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 88-74-4 | ED |
| 3-Nitroaniline | ND | ug/L | 24.3 | 9.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 99-09-2 | ED |
| 4-Nitroaniline | ND | ug/L | 24.3 | 18.1 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 100-01-6 | ED,M6 |
| Nitrobenzene | ND | ug/L | 9.7 | 3.6 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 98-95-3 | ED |
| 2-Nitrophenol | ND | ug/L | 9.7 | 3.4 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 88-75-5 | ED |
| 4-Nitrophenol | ND | ug/L | 9.7 | 7.4 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 100-02-7 | ED |
| N-Nitrosodimethylamine | ND | ug/L | 9.7 | 2.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 62-75-9 | ED |
| N-Nitroso-di-n-propylamine | ND | ug/L | 9.7 | 5.2 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 621-64-7 | ED |
| N-Nitrosodiphenylamine | ND | ug/L | 9.7 | 2.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 86-30-6 | ED |
| Pentachlorophenol | ND | ug/L | 24.3 | 10.2 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 87-86-5 | ED |
| Phenanthrene | ND | ug/L | 9.7 | 3.3 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 85-01-8 | ED |
| Phenol | ND | ug/L | 9.7 | 2.2 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 108-95-2 | ED |
| Pyrene | ND | ug/L | 9.7 | 2.9 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 129-00-0 | ED |
| 1,2,4-Trichlorobenzene | ND | ug/L | 9.7 | 3.1 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 120-82-1 | ED |
| 2,4,5-Trichlorophenol | ND | ug/L | 24.3 | 6.5 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 95-95-4 | ED |
| 2,4,6-Trichlorophenol | ND | ug/L | 9.7 | 3.6 | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 88-06-2 | ED |
| ***Surrogates*** | | | | | | | | | |
| Nitrobenzene-d5 (S) | 37 | %. | 10-140 | | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 38 | %. | 10-135 | | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 321-60-8 | |
| Terphenyl-d14 (S) | 64 | %. | 10-128 | | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 1718-51-0 | |

## 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.: 30362816

**Sample: MW-32** **Lab ID: 30362816001** Collected: 05/11/20 08:40 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| Phenol-d6 (S) | 13 | %. | 10-145 | | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 13127-88-3 | |
| 2-Fluorophenol (S) | 22 | %. | 10-142 | | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 67 | %. | 10-140 | | 10 | 05/14/20 08:34 | 05/14/20 18:21 | 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.: 30362816

**Sample: DUP** **Lab ID: 30362816002** Collected: 05/11/20 08:40 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Aluminum | **544** | ug/L | 50.0 | 20.3 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7429-90-5 | |
| Antimony | ND | ug/L | 6.0 | 3.3 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-36-0 | |
| Arsenic | ND | ug/L | 5.0 | 2.0 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-38-2 | |
| Barium | **305** | ug/L | 10.0 | 0.68 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 0.17 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-41-7 | |
| Boron | **512** | ug/L | 50.0 | 2.3 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-42-8 | |
| Cadmium | ND | ug/L | 3.0 | 0.34 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-43-9 | |
| Calcium | **169000** | ug/L | 1000 | 99.9 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-70-2 | |
| Chromium | ND | ug/L | 5.0 | 0.35 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-47-3 | |
| Cobalt | ND | ug/L | 5.0 | 0.53 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-48-4 | |
| Copper | ND | ug/L | 5.0 | 2.7 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-50-8 | |
| Iron | **23600** | ug/L | 70.0 | 40.9 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7439-89-6 | |
| Lead | ND | ug/L | 5.0 | 4.9 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7439-92-1 | |
| Magnesium | **25400** | ug/L | 200 | 28.4 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7439-95-4 | |
| Manganese | **5930** | ug/L | 5.0 | 1.2 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7439-96-5 | |
| Molybdenum | ND | ug/L | 20.0 | 0.85 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7439-98-7 | |
| Nickel | ND | ug/L | 10.0 | 1.5 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-02-0 | |
| Potassium | **9470** | ug/L | 500 | 72.4 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-09-7 | |
| Selenium | ND | ug/L | 8.0 | 5.5 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7782-49-2 | |
| Silver | ND | ug/L | 6.0 | 1.4 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-22-4 | |
| Sodium | **20000** | ug/L | 1000 | 423 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-23-5 | |
| Thallium | ND | ug/L | 10.0 | 4.0 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-28-0 | |
| Vanadium | ND | ug/L | 5.0 | 0.57 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-62-2 | |
| Zinc | ND | ug/L | 10.0 | 2.4 | 1 | 05/14/20 06:32 | 05/19/20 08:50 | 7440-66-6 | |
| **6010C MET ICP, Lab Filtered** | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Aluminum, Dissolved | ND | ug/L | 50.0 | 20.3 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7429-90-5 | |
| Antimony, Dissolved | ND | ug/L | 6.0 | 3.3 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-36-0 | |
| Arsenic, Dissolved | ND | ug/L | 5.0 | 2.0 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-38-2 | |
| Barium, Dissolved | **193** | ug/L | 10.0 | 0.68 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-39-3 | |
| Beryllium, Dissolved | ND | ug/L | 1.0 | 0.17 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-41-7 | |
| Boron, Dissolved | **479** | ug/L | 50.0 | 2.3 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-42-8 | |
| Cadmium, Dissolved | ND | ug/L | 3.0 | 0.34 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-43-9 | |
| Calcium, Dissolved | **150000** | ug/L | 1000 | 99.9 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-70-2 | |
| Chromium, Dissolved | ND | ug/L | 5.0 | 0.35 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-47-3 | |
| Cobalt, Dissolved | ND | ug/L | 5.0 | 0.53 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-48-4 | |
| Copper, Dissolved | ND | ug/L | 5.0 | 2.7 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-50-8 | |
| Iron, Dissolved | **1200** | ug/L | 70.0 | 40.9 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7439-89-6 | |
| Lead, Dissolved | ND | ug/L | 5.0 | 4.9 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7439-92-1 | |
| Magnesium, Dissolved | **22500** | ug/L | 200 | 28.4 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7439-95-4 | |
| Manganese, Dissolved | **5220** | ug/L | 5.0 | 1.2 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7439-96-5 | |
| Molybdenum, Dissolved | ND | ug/L | 20.0 | 0.85 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7439-98-7 | |
| Nickel, Dissolved | ND | ug/L | 10.0 | 1.5 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-02-0 | |
| Potassium, Dissolved | **8540** | ug/L | 500 | 72.4 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 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.: 30362816

**Sample: DUP** **Lab ID: 30362816002** Collected: 05/11/20 08:40 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Selenium, Dissolved | ND | ug/L | 8.0 | 5.5 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7782-49-2 | |
| Silver, Dissolved | ND | ug/L | 6.0 | 1.4 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-22-4 | |
| Sodium, Dissolved | **18200** | ug/L | 1000 | 423 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-23-5 | |
| Thallium, Dissolved | ND | ug/L | 10.0 | 4.0 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-28-0 | |
| Vanadium, Dissolved | ND | ug/L | 5.0 | 0.57 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-62-2 | |
| Zinc, Dissolved | ND | ug/L | 10.0 | 2.4 | 1 | 05/15/20 15:24 | 05/19/20 09:24 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.030 | 1 | 05/15/20 11:31 | 05/15/20 19:34 | 7439-97-6 | |
| **7470 Mercury, Lab Filtered** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Mercury, Dissolved | ND | ug/L | 0.20 | 0.030 | 1 | 05/18/20 19:12 | 05/19/20 18:03 | 7439-97-6 | |
| **8270D MSSV Organics** | Analytical Method: EPA 8270D Preparation Method: EPA 3510C<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Acenaphthene | ND | ug/L | 9.7 | 3.8 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 83-32-9 | ED |
| Acenaphthylene | ND | ug/L | 9.7 | 3.7 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 208-96-8 | ED |
| Anthracene | ND | ug/L | 9.7 | 2.6 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 120-12-7 | ED |
| Azobenzene | ND | ug/L | 9.7 | 3.4 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 103-33-3 | ED |
| Benzo(a)anthracene | ND | ug/L | 9.7 | 2.0 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 56-55-3 | ED |
| Benzo(a)pyrene | ND | ug/L | 9.7 | 1.8 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 50-32-8 | ED |
| Benzo(b)fluoranthene | ND | ug/L | 9.7 | 2.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 205-99-2 | ED |
| Benzo(g,h,i)perylene | ND | ug/L | 9.7 | 2.9 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 191-24-2 | ED |
| Benzo(k)fluoranthene | ND | ug/L | 9.7 | 2.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 207-08-9 | ED |
| Benzoic acid | ND | ug/L | 146 | 27.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 65-85-0 | ED,L1 |
| Benzyl alcohol | ND | ug/L | 9.7 | 6.8 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 100-51-6 | ED |
| 4-Bromophenylphenyl ether | ND | ug/L | 9.7 | 3.8 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 101-55-3 | ED |
| Butylbenzylphthalate | ND | ug/L | 9.7 | 2.9 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 85-68-7 | ED |
| Carbazole | ND | ug/L | 9.7 | 2.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 86-74-8 | ED |
| 4-Chloro-3-methylphenol | ND | ug/L | 9.7 | 4.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 59-50-7 | ED |
| 4-Chloroaniline | ND | ug/L | 9.7 | 2.1 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 106-47-8 | ED |
| bis(2-Chloroethoxy)methane | ND | ug/L | 9.7 | 3.4 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 111-91-1 | ED |
| bis(2-Chloroethyl) ether | ND | ug/L | 9.7 | 4.0 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 111-44-4 | ED |
| bis(2-Chloroisopropyl) ether | ND | ug/L | 9.7 | 3.9 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 108-60-1 | ED |
| 2-Chloronaphthalene | ND | ug/L | 9.7 | 3.2 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 91-58-7 | ED |
| 2-Chlorophenol | ND | ug/L | 9.7 | 3.2 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 95-57-8 | ED |
| 4-Chlorophenylphenyl ether | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 7005-72-3 | ED |
| Chrysene | ND | ug/L | 9.7 | 2.0 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 218-01-9 | ED |
| Dibenz(a,h)anthracene | ND | ug/L | 9.7 | 3.0 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 53-70-3 | ED |
| Dibenzofuran | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 132-64-9 | ED |
| 1,2-Dichlorobenzene | ND | ug/L | 9.7 | 3.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 95-50-1 | ED |
| 1,3-Dichlorobenzene | ND | ug/L | 9.7 | 2.9 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 541-73-1 | ED |
| 1,4-Dichlorobenzene | ND | ug/L | 9.7 | 2.7 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 106-46-7 | ED |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30362816

**Sample: DUP** **Lab ID: 30362816002** Collected: 05/11/20 08:40 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| 3,3'-Dichlorobenzidine | ND | ug/L | 9.7 | 2.2 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 91-94-1 | ED |
| 2,4-Dichlorophenol | ND | ug/L | 9.7 | 3.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 120-83-2 | ED |
| Diethylphthalate | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 84-66-2 | ED |
| 2,4-Dimethylphenol | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 105-67-9 | ED |
| Dimethylphthalate | ND | ug/L | 9.7 | 4.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 131-11-3 | ED |
| Di-n-butylphthalate | ND | ug/L | 9.7 | 3.1 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 84-74-2 | ED |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | 24.3 | 6.2 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 534-52-1 | ED |
| 2,4-Dinitrophenol | ND | ug/L | 24.3 | 5.7 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 51-28-5 | ED |
| 2,4-Dinitrotoluene | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 121-14-2 | ED |
| 2,6-Dinitrotoluene | ND | ug/L | 9.7 | 3.9 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 606-20-2 | ED |
| Di-n-octylphthalate | ND | ug/L | 9.7 | 2.6 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 117-84-0 | ED |
| bis(2-Ethylhexyl)phthalate | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 117-81-7 | ED |
| Fluoranthene | ND | ug/L | 9.7 | 2.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 206-44-0 | ED |
| Fluorene | ND | ug/L | 9.7 | 3.6 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 86-73-7 | ED |
| Hexachloro-1,3-butadiene | ND | ug/L | 9.7 | 3.2 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 87-68-3 | ED |
| Hexachlorobenzene | ND | ug/L | 9.7 | 3.0 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 118-74-1 | ED |
| Hexachlorocyclopentadiene | ND | ug/L | 9.7 | 1.9 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 77-47-4 | ED |
| Hexachloroethane | ND | ug/L | 9.7 | 2.9 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 67-72-1 | ED |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 9.7 | 3.0 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 193-39-5 | ED |
| Isophorone | ND | ug/L | 9.7 | 5.6 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 78-59-1 | ED |
| 1-Methylnaphthalene | ND | ug/L | 9.7 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 90-12-0 | ED |
| 2-Methylnaphthalene | ND | ug/L | 9.7 | 3.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 91-57-6 | ED |
| 2-Methylphenol(o-Cresol) | ND | ug/L | 9.7 | 3.6 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 95-48-7 | ED |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/L | 19.4 | 18.4 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | | ED |
| Naphthalene | ND | ug/L | 9.7 | 3.4 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 91-20-3 | ED |
| 2-Nitroaniline | ND | ug/L | 24.3 | 6.9 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 88-74-4 | ED |
| 3-Nitroaniline | ND | ug/L | 24.3 | 9.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 99-09-2 | ED |
| 4-Nitroaniline | ND | ug/L | 24.3 | 18.1 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 100-01-6 | ED |
| Nitrobenzene | ND | ug/L | 9.7 | 3.6 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 98-95-3 | ED |
| 2-Nitrophenol | ND | ug/L | 9.7 | 3.4 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 88-75-5 | ED |
| 4-Nitrophenol | ND | ug/L | 9.7 | 7.4 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 100-02-7 | ED |
| N-Nitrosodimethylamine | ND | ug/L | 9.7 | 2.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 62-75-9 | ED |
| N-Nitroso-di-n-propylamine | ND | ug/L | 9.7 | 5.2 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 621-64-7 | ED |
| N-Nitrosodiphenylamine | ND | ug/L | 9.7 | 2.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 86-30-6 | ED |
| Pentachlorophenol | ND | ug/L | 24.3 | 10.2 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 87-86-5 | ED |
| Phenanthrene | ND | ug/L | 9.7 | 3.3 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 85-01-8 | ED |
| Phenol | ND | ug/L | 9.7 | 2.2 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 108-95-2 | ED |
| Pyrene | ND | ug/L | 9.7 | 2.9 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 129-00-0 | ED |
| 1,2,4-Trichlorobenzene | ND | ug/L | 9.7 | 3.1 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 120-82-1 | ED |
| 2,4,5-Trichlorophenol | ND | ug/L | 24.3 | 6.5 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 95-95-4 | ED |
| 2,4,6-Trichlorophenol | ND | ug/L | 9.7 | 3.6 | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 88-06-2 | ED |
| ***Surrogates*** | | | | | | | | | |
| Nitrobenzene-d5 (S) | 34 | %. | 10-140 | | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 46 | %. | 10-135 | | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 321-60-8 | |
| Terphenyl-d14 (S) | 58 | %. | 10-128 | | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 1718-51-0 | |

## 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.: 30362816

**Sample: DUP** **Lab ID: 30362816002** Collected: 05/11/20 08:40 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| Phenol-d6 (S) | 14 | %. | 10-145 | | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 13127-88-3 | |
| 2-Fluorophenol (S) | 25 | %. | 10-142 | | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 71 | %. | 10-140 | | 10 | 05/14/20 08:34 | 05/16/20 00:48 | 118-79-6 | |

**Pace Analytical Services, LLC**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
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## ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30362816

**Sample: MW-33** **Lab ID: 30362816003** Collected: 05/11/20 09:30 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Aluminum | **18400** | ug/L | 50.0 | 20.3 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7429-90-5 | |
| Antimony | ND | ug/L | 6.0 | 3.3 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-36-0 | |
| Arsenic | **8.8** | ug/L | 5.0 | 2.0 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-38-2 | |
| Barium | **252** | ug/L | 10.0 | 0.68 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 0.17 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-41-7 | |
| Boron | **383** | ug/L | 50.0 | 2.3 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-42-8 | |
| Cadmium | ND | ug/L | 3.0 | 0.34 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-43-9 | |
| Calcium | **189000** | ug/L | 1000 | 99.9 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-70-2 | |
| Chromium | **24.5** | ug/L | 5.0 | 0.35 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-47-3 | |
| Cobalt | **10.9** | ug/L | 5.0 | 0.53 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-48-4 | |
| Copper | **44.2** | ug/L | 5.0 | 2.7 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-50-8 | |
| Iron | **44000** | ug/L | 70.0 | 40.9 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7439-89-6 | |
| Lead | **59.2** | ug/L | 5.0 | 4.9 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7439-92-1 | |
| Magnesium | **26100** | ug/L | 200 | 28.4 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7439-95-4 | |
| Manganese | **2130** | ug/L | 5.0 | 1.2 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7439-96-5 | |
| Molybdenum | ND | ug/L | 20.0 | 0.85 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7439-98-7 | |
| Nickel | **27.7** | ug/L | 10.0 | 1.5 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-02-0 | |
| Potassium | **24500** | ug/L | 500 | 72.4 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-09-7 | |
| Selenium | ND | ug/L | 8.0 | 5.5 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7782-49-2 | |
| Silver | ND | ug/L | 6.0 | 1.4 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-22-4 | |
| Sodium | **115000** | ug/L | 1000 | 423 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-23-5 | |
| Thallium | ND | ug/L | 10.0 | 4.0 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-28-0 | |
| Vanadium | **33.9** | ug/L | 5.0 | 0.57 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-62-2 | |
| Zinc | **104** | ug/L | 10.0 | 2.4 | 1 | 05/14/20 06:32 | 05/19/20 08:52 | 7440-66-6 | |
| **6010C MET ICP, Lab Filtered** | Analytical Method: EPA 6010C Preparation Method: EPA 3005A<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Aluminum, Dissolved | ND | ug/L | 50.0 | 20.3 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7429-90-5 | |
| Antimony, Dissolved | ND | ug/L | 6.0 | 3.3 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-36-0 | |
| Arsenic, Dissolved | ND | ug/L | 5.0 | 2.0 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-38-2 | |
| Barium, Dissolved | **115** | ug/L | 10.0 | 0.68 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-39-3 | |
| Beryllium, Dissolved | ND | ug/L | 1.0 | 0.17 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-41-7 | |
| Boron, Dissolved | **375** | ug/L | 50.0 | 2.3 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-42-8 | |
| Cadmium, Dissolved | ND | ug/L | 3.0 | 0.34 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-43-9 | |
| Calcium, Dissolved | **181000** | ug/L | 1000 | 99.9 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-70-2 | |
| Chromium, Dissolved | ND | ug/L | 5.0 | 0.35 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-47-3 | |
| Cobalt, Dissolved | ND | ug/L | 5.0 | 0.53 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-48-4 | |
| Copper, Dissolved | **7.2** | ug/L | 5.0 | 2.7 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-50-8 | |
| Iron, Dissolved | **258** | ug/L | 70.0 | 40.9 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7439-89-6 | |
| Lead, Dissolved | ND | ug/L | 5.0 | 4.9 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7439-92-1 | |
| Magnesium, Dissolved | **19900** | ug/L | 200 | 28.4 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7439-95-4 | |
| Manganese, Dissolved | **1780** | ug/L | 5.0 | 1.2 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7439-96-5 | |
| Molybdenum, Dissolved | ND | ug/L | 20.0 | 0.85 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7439-98-7 | |
| Nickel, Dissolved | ND | ug/L | 10.0 | 1.5 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-02-0 | |
| Potassium, Dissolved | **21800** | ug/L | 500 | 72.4 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-09-7 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
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(724)850-5600

## ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30362816

**Sample: MW-33** **Lab ID: 30362816003** Collected: 05/11/20 09:30 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Selenium, Dissolved | ND | ug/L | 8.0 | 5.5 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7782-49-2 | |
| Silver, Dissolved | ND | ug/L | 6.0 | 1.4 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-22-4 | |
| Sodium, Dissolved | **113000** | ug/L | 1000 | 423 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-23-5 | |
| Thallium, Dissolved | ND | ug/L | 10.0 | 4.0 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-28-0 | |
| Vanadium, Dissolved | ND | ug/L | 5.0 | 0.57 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-62-2 | |
| Zinc, Dissolved | ND | ug/L | 10.0 | 2.4 | 1 | 05/15/20 15:24 | 05/19/20 09:26 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.030 | 1 | 05/15/20 11:31 | 05/15/20 19:35 | 7439-97-6 | |
| **7470 Mercury, Lab Filtered** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Mercury, Dissolved | ND | ug/L | 0.20 | 0.030 | 1 | 05/18/20 19:12 | 05/19/20 18:05 | 7439-97-6 | |
| **8270D MSSV Organics** | Analytical Method: EPA 8270D Preparation Method: EPA 3510C<br>Pace Analytical Services - Greensburg | | | | | | | | |
| Acenaphthene | ND | ug/L | 9.8 | 3.8 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 83-32-9 | ED |
| Acenaphthylene | **22.1** | ug/L | 9.8 | 3.7 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 208-96-8 | ED |
| Anthracene | **88.3** | ug/L | 9.8 | 2.6 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 120-12-7 | ED |
| Azobenzene | ND | ug/L | 9.8 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 103-33-3 | ED |
| Benzo(a)anthracene | ND | ug/L | 9.8 | 2.0 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 56-55-3 | ED |
| Benzo(a)pyrene | ND | ug/L | 9.8 | 1.8 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 50-32-8 | ED |
| Benzo(b)fluoranthene | ND | ug/L | 9.8 | 2.3 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 205-99-2 | ED |
| Benzo(g,h,i)perylene | ND | ug/L | 9.8 | 2.9 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 191-24-2 | ED |
| Benzo(k)fluoranthene | ND | ug/L | 9.8 | 2.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 207-08-9 | ED |
| Benzoic acid | ND | ug/L | 146 | 27.4 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 65-85-0 | ED,L1 |
| Benzyl alcohol | ND | ug/L | 9.8 | 6.8 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 100-51-6 | ED |
| 4-Bromophenylphenyl ether | ND | ug/L | 9.8 | 3.8 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 101-55-3 | ED |
| Butylbenzylphthalate | ND | ug/L | 9.8 | 2.9 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 85-68-7 | ED |
| Carbazole | ND | ug/L | 9.8 | 2.3 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 86-74-8 | ED |
| 4-Chloro-3-methylphenol | ND | ug/L | 9.8 | 4.3 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 59-50-7 | ED |
| 4-Chloroaniline | **16.5** | ug/L | 9.8 | 2.1 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 106-47-8 | ED |
| bis(2-Chloroethoxy)methane | ND | ug/L | 9.8 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 111-91-1 | ED |
| bis(2-Chloroethyl) ether | ND | ug/L | 9.8 | 4.0 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 111-44-4 | ED |
| bis(2-Chloroisopropyl) ether | ND | ug/L | 9.8 | 4.0 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 108-60-1 | ED |
| 2-Chloronaphthalene | ND | ug/L | 9.8 | 3.3 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 91-58-7 | ED |
| 2-Chlorophenol | ND | ug/L | 9.8 | 3.2 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 95-57-8 | ED |
| 4-Chlorophenylphenyl ether | ND | ug/L | 9.8 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 7005-72-3 | ED |
| Chrysene | **15.5** | ug/L | 9.8 | 2.0 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 218-01-9 | ED |
| Dibenz(a,h)anthracene | ND | ug/L | 9.8 | 3.0 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 53-70-3 | ED |
| Dibenzofuran | ND | ug/L | 9.8 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 132-64-9 | ED |
| 1,2-Dichlorobenzene | ND | ug/L | 9.8 | 3.3 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 95-50-1 | ED |
| 1,3-Dichlorobenzene | ND | ug/L | 9.8 | 2.9 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 541-73-1 | ED |
| 1,4-Dichlorobenzene | ND | ug/L | 9.8 | 2.7 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 106-46-7 | 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.: 30362816

**Sample: MW-33** **Lab ID: 30362816003** Collected: 05/11/20 09:30 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| 3,3'-Dichlorobenzidine | ND | ug/L | 9.8 | 2.2 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 91-94-1 | ED |
| 2,4-Dichlorophenol | ND | ug/L | 9.8 | 3.3 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 120-83-2 | ED |
| Diethylphthalate | ND | ug/L | 9.8 | 3.6 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 84-66-2 | ED |
| 2,4-Dimethylphenol | **34.2** | ug/L | 9.8 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 105-67-9 | ED |
| Dimethylphthalate | **20.0** | ug/L | 9.8 | 4.3 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 131-11-3 | ED |
| Di-n-butylphthalate | ND | ug/L | 9.8 | 3.1 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 84-74-2 | ED |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | 24.4 | 6.2 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 534-52-1 | ED |
| 2,4-Dinitrophenol | ND | ug/L | 24.4 | 5.7 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 51-28-5 | ED |
| 2,4-Dinitrotoluene | **50.4** | ug/L | 9.8 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 121-14-2 | ED |
| 2,6-Dinitrotoluene | ND | ug/L | 9.8 | 3.9 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 606-20-2 | ED |
| Di-n-octylphthalate | ND | ug/L | 9.8 | 2.6 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 117-84-0 | ED |
| bis(2-Ethylhexyl)phthalate | ND | ug/L | 9.8 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 117-81-7 | ED |
| Fluoranthene | ND | ug/L | 9.8 | 2.3 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 206-44-0 | ED |
| Fluorene | ND | ug/L | 9.8 | 3.6 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 86-73-7 | ED |
| Hexachloro-1,3-butadiene | ND | ug/L | 9.8 | 3.2 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 87-68-3 | ED |
| Hexachlorobenzene | ND | ug/L | 9.8 | 3.0 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 118-74-1 | ED |
| Hexachlorocyclopentadiene | ND | ug/L | 9.8 | 1.9 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 77-47-4 | ED |
| Hexachloroethane | ND | ug/L | 9.8 | 3.0 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 67-72-1 | ED |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 9.8 | 3.0 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 193-39-5 | ED |
| Isophorone | ND | ug/L | 9.8 | 5.6 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 78-59-1 | ED |
| 1-Methylnaphthalene | ND | ug/L | 9.8 | 3.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 90-12-0 | ED |
| 2-Methylnaphthalene | ND | ug/L | 9.8 | 3.4 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 91-57-6 | ED |
| 2-Methylphenol(o-Cresol) | ND | ug/L | 9.8 | 3.6 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 95-48-7 | ED |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/L | 19.5 | 18.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | | ED |
| Naphthalene | ND | ug/L | 9.8 | 3.4 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 91-20-3 | ED |
| 2-Nitroaniline | ND | ug/L | 24.4 | 7.0 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 88-74-4 | ED |
| 3-Nitroaniline | **35.8** | ug/L | 24.4 | 9.4 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 99-09-2 | ED |
| 4-Nitroaniline | ND | ug/L | 24.4 | 18.1 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 100-01-6 | ED |
| Nitrobenzene | **31.4** | ug/L | 9.8 | 3.7 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 98-95-3 | ED |
| 2-Nitrophenol | ND | ug/L | 9.8 | 3.4 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 88-75-5 | ED |
| 4-Nitrophenol | ND | ug/L | 9.8 | 7.4 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 100-02-7 | ED |
| N-Nitrosodimethylamine | ND | ug/L | 9.8 | 2.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 62-75-9 | ED |
| N-Nitroso-di-n-propylamine | ND | ug/L | 9.8 | 5.3 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 621-64-7 | ED |
| N-Nitrosodiphenylamine | **95.6** | ug/L | 9.8 | 2.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 86-30-6 | ED |
| Pentachlorophenol | ND | ug/L | 24.4 | 10.2 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 87-86-5 | ED |
| Phenanthrene | ND | ug/L | 9.8 | 3.3 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 85-01-8 | ED |
| Phenol | ND | ug/L | 9.8 | 2.2 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 108-95-2 | ED |
| Pyrene | ND | ug/L | 9.8 | 2.9 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 129-00-0 | ED |
| 1,2,4-Trichlorobenzene | ND | ug/L | 9.8 | 3.1 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 120-82-1 | ED |
| 2,4,5-Trichlorophenol | ND | ug/L | 24.4 | 6.5 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 95-95-4 | ED |
| 2,4,6-Trichlorophenol | ND | ug/L | 9.8 | 3.6 | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 88-06-2 | ED |
| ***Surrogates*** | | | | | | | | | |
| Nitrobenzene-d5 (S) | 245 | %. | 10-140 | | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 4165-60-0 | S4 |
| 2-Fluorobiphenyl (S) | 0 | %. | 10-135 | | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 321-60-8 | S4 |
| Terphenyl-d14 (S) | 0 | %. | 10-128 | | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 1718-51-0 | S4 |

## 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.: 30362816

**Sample: MW-33** **Lab ID: 30362816003** Collected: 05/11/20 09:30 Received: 05/13/20 09:15 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<br>Pace Analytical Services - Greensburg | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| Phenol-d6 (S) | 28 | %. | 10-145 | | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 13127-88-3 | |
| 2-Fluorophenol (S) | 13 | %. | 10-142 | | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 68 | %. | 10-140 | | 10 | 05/14/20 08:34 | 05/16/20 01:10 | 118-79-6 | |

**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.: 30362816

QC Batch: 396592
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30362816001, 30362816002, 30362816003

METHOD BLANK: 1920878 Matrix: Water
Associated Lab Samples: 30362816001, 30362816002, 30362816003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.20 | 0.030 | 05/15/20 19:16 | |

LABORATORY CONTROL SAMPLE: 1920879

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 1 | 0.98 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920881 1920882

| Parameter | Units | 30362816001 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 | 2.4 | 2.5 | 96 | 100 | 75-125 | 4 | 20 | |

SAMPLE DUPLICATE: 1920880

| Parameter | Units | 30362816001 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.: 30362816

QC Batch: 396838
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30362816001, 30362816002, 30362816003

METHOD BLANK: 1922292 Matrix: Water
Associated Lab Samples: 30362816001, 30362816002, 30362816003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | ND | 0.20 | 0.030 | 05/19/20 17:48 | |

LABORATORY CONTROL SAMPLE: 1922293

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | 1 | 0.97 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1922295 1922535

| Parameter | Units | 30362816001 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 | 2.8 | 2.7 | 111 | 108 | 75-125 | 3 | 20 | |

SAMPLE DUPLICATE: 1922294

| Parameter | Units | 30362816001 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.: 30362816

QC Batch: 396328
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010C
Analysis Description: 6010C MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30362816001, 30362816002, 30362816003

METHOD BLANK: 1919661 Matrix: Water
Associated Lab Samples: 30362816001, 30362816002, 30362816003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Aluminum | ug/L | ND | 50.0 | 20.3 | 05/19/20 08:33 | |
| Antimony | ug/L | ND | 6.0 | 3.3 | 05/19/20 08:33 | |
| Arsenic | ug/L | ND | 5.0 | 2.0 | 05/19/20 08:33 | |
| Barium | ug/L | ND | 10.0 | 0.68 | 05/19/20 08:33 | |
| Beryllium | ug/L | ND | 1.0 | 0.17 | 05/19/20 08:33 | |
| Boron | ug/L | ND | 50.0 | 2.3 | 05/19/20 08:33 | |
| Cadmium | ug/L | ND | 3.0 | 0.34 | 05/19/20 08:33 | |
| Calcium | ug/L | ND | 1000 | 99.9 | 05/19/20 08:33 | |
| Chromium | ug/L | ND | 5.0 | 0.35 | 05/19/20 08:33 | |
| Cobalt | ug/L | ND | 5.0 | 0.53 | 05/19/20 08:33 | |
| Copper | ug/L | ND | 5.0 | 2.7 | 05/19/20 08:33 | |
| Iron | ug/L | ND | 70.0 | 40.9 | 05/19/20 08:33 | |
| Lead | ug/L | ND | 5.0 | 4.9 | 05/19/20 08:33 | |
| Magnesium | ug/L | ND | 200 | 28.4 | 05/19/20 08:33 | |
| Manganese | ug/L | ND | 5.0 | 1.2 | 05/19/20 08:33 | |
| Molybdenum | ug/L | ND | 20.0 | 0.85 | 05/19/20 08:33 | |
| Nickel | ug/L | ND | 10.0 | 1.5 | 05/19/20 08:33 | |
| Potassium | ug/L | ND | 500 | 72.4 | 05/19/20 08:33 | |
| Selenium | ug/L | ND | 8.0 | 5.5 | 05/19/20 08:33 | |
| Silver | ug/L | ND | 6.0 | 1.4 | 05/19/20 08:33 | |
| Sodium | ug/L | ND | 1000 | 423 | 05/19/20 08:33 | |
| Thallium | ug/L | ND | 10.0 | 4.0 | 05/19/20 08:33 | |
| Vanadium | ug/L | ND | 5.0 | 0.57 | 05/19/20 08:33 | |
| Zinc | ug/L | ND | 10.0 | 2.4 | 05/19/20 08:33 | |

LABORATORY CONTROL SAMPLE: 1919662

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Aluminum | ug/L | 5000 | 5100 | 102 | 80-120 | |
| Antimony | ug/L | 500 | 501 | 100 | 80-120 | |
| Arsenic | ug/L | 500 | 509 | 102 | 80-120 | |
| Barium | ug/L | 500 | 517 | 103 | 80-120 | |
| Beryllium | ug/L | 500 | 524 | 105 | 80-120 | |
| Boron | ug/L | 500 | 501 | 100 | 80-120 | |
| Cadmium | ug/L | 500 | 517 | 103 | 80-120 | |
| Calcium | ug/L | 5000 | 5100 | 102 | 80-120 | |
| Chromium | ug/L | 500 | 509 | 102 | 80-120 | |
| Cobalt | ug/L | 500 | 499 | 100 | 80-120 | |
| Copper | ug/L | 500 | 524 | 105 | 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.: 30362816

LABORATORY CONTROL SAMPLE: 1919662

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Iron | ug/L | 5000 | 5140 | 103 | 80-120 | |
| Lead | ug/L | 500 | 499 | 100 | 80-120 | |
| Magnesium | ug/L | 5000 | 5040 | 101 | 80-120 | |
| Manganese | ug/L | 500 | 520 | 104 | 80-120 | |
| Molybdenum | ug/L | 500 | 484 | 97 | 80-120 | |
| Nickel | ug/L | 500 | 520 | 104 | 80-120 | |
| Potassium | ug/L | 5000 | 5040 | 101 | 80-120 | |
| Selenium | ug/L | 500 | 519 | 104 | 80-120 | |
| Silver | ug/L | 250 | 250 | 100 | 80-120 | |
| Sodium | ug/L | 5000 | 5080 | 102 | 80-120 | |
| Thallium | ug/L | 500 | 496 | 99 | 80-120 | |
| Vanadium | ug/L | 500 | 499 | 100 | 80-120 | |
| Zinc | ug/L | 500 | 510 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919664 1919665

| Parameter | Units | 30362816001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 556 | 5000 | 5000 | 6100 | 6200 | 111 | 113 | 75-125 | 2 | 20 | |
| Antimony | ug/L | ND | 500 | 500 | 508 | 522 | 102 | 104 | 75-125 | 3 | 20 | |
| Arsenic | ug/L | ND | 500 | 500 | 524 | 530 | 105 | 106 | 75-125 | 1 | 20 | |
| Barium | ug/L | 312 | 500 | 500 | 800 | 847 | 98 | 107 | 75-125 | 6 | 20 | |
| Beryllium | ug/L | ND | 500 | 500 | 507 | 536 | 101 | 107 | 75-125 | 6 | 20 | |
| Boron | ug/L | 514 | 500 | 500 | 1020 | 1040 | 101 | 105 | 75-125 | 2 | 20 | |
| Cadmium | ug/L | ND | 500 | 500 | 516 | 523 | 103 | 104 | 75-125 | 1 | 20 | |
| Calcium | ug/L | 173000 | 5000 | 5000 | 169000 | 180000 | -84 | 140 | 75-125 | 6 | 20 | MH,ML |
| Chromium | ug/L | ND | 500 | 500 | 500 | 519 | 100 | 104 | 75-125 | 4 | 20 | |
| Cobalt | ug/L | ND | 500 | 500 | 520 | 524 | 104 | 105 | 75-125 | 1 | 20 | |
| Copper | ug/L | ND | 500 | 500 | 508 | 538 | 101 | 107 | 75-125 | 6 | 20 | |
| Iron | ug/L | 24000 | 5000 | 5000 | 28000 | 29500 | 80 | 109 | 75-125 | 5 | 20 | |
| Lead | ug/L | ND | 500 | 500 | 512 | 519 | 102 | 103 | 75-125 | 1 | 20 | |
| Magnesium | ug/L | 26000 | 5000 | 5000 | 29400 | 31400 | 69 | 109 | 75-125 | 7 | 20 | ML |
| Manganese | ug/L | 6060 | 500 | 500 | 6240 | 6640 | 36 | 116 | 75-125 | 6 | 20 | ML |
| Molybdenum | ug/L | ND | 500 | 500 | 540 | 553 | 108 | 111 | 75-125 | 3 | 20 | |
| Nickel | ug/L | ND | 500 | 500 | 498 | 503 | 99 | 100 | 75-125 | 1 | 20 | |
| Potassium | ug/L | 9740 | 5000 | 5000 | 14500 | 15500 | 94 | 114 | 75-125 | 7 | 20 | |
| Selenium | ug/L | ND | 500 | 500 | 512 | 517 | 102 | 103 | 75-125 | 1 | 20 | |
| Silver | ug/L | ND | 250 | 250 | 258 | 269 | 103 | 108 | 75-125 | 4 | 20 | |
| Sodium | ug/L | 20500 | 5000 | 5000 | 24700 | 26400 | 84 | 117 | 75-125 | 7 | 20 | |
| Thallium | ug/L | ND | 500 | 500 | 486 | 493 | 97 | 99 | 75-125 | 1 | 20 | |
| Vanadium | ug/L | ND | 500 | 500 | 503 | 521 | 100 | 104 | 75-125 | 4 | 20 | |
| Zinc | ug/L | ND | 500 | 500 | 494 | 500 | 98 | 99 | 75-125 | 1 | 20 | |

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## 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.: 30362816

SAMPLE DUPLICATE: 1919663

| Parameter | Units | 30362816001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Aluminum | ug/L | 556 | 564 | 2 | 20 | |
| Antimony | ug/L | ND | ND | | 20 | |
| Arsenic | ug/L | ND | 3.9J | | 20 | |
| Barium | ug/L | 312 | 317 | 2 | 20 | |
| Beryllium | ug/L | ND | ND | | 20 | |
| Boron | ug/L | 514 | 512 | 0 | 20 | |
| Cadmium | ug/L | ND | .61J | | 20 | |
| Calcium | ug/L | 173000 | 176000 | 2 | 20 | |
| Chromium | ug/L | ND | 1.1J | | 20 | |
| Cobalt | ug/L | ND | ND | | 20 | |
| Copper | ug/L | ND | ND | | 20 | |
| Iron | ug/L | 24000 | 24300 | 1 | 20 | |
| Lead | ug/L | ND | ND | | 20 | |
| Magnesium | ug/L | 26000 | 26200 | 1 | 20 | |
| Manganese | ug/L | 6060 | 6160 | 2 | 20 | |
| Molybdenum | ug/L | ND | ND | | 20 | |
| Nickel | ug/L | ND | 1.9J | | 20 | |
| Potassium | ug/L | 9740 | 9960 | 2 | 20 | |
| Selenium | ug/L | ND | ND | | 20 | |
| Silver | ug/L | ND | ND | | 20 | |
| Sodium | ug/L | 20500 | 21300 | 4 | 20 | |
| Thallium | ug/L | ND | ND | | 20 | |
| Vanadium | ug/L | ND | 1.7J | | 20 | |
| Zinc | ug/L | ND | 3.3J | | 20 | |

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## 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.: 30362816

QC Batch: 396642
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010C
Analysis Description: 6010C MET Dissolved
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30362816001, 30362816002, 30362816003

METHOD BLANK: 1921260 Matrix: Water
Associated Lab Samples: 30362816001, 30362816002, 30362816003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Aluminum, Dissolved | ug/L | ND | 50.0 | 20.3 | 05/19/20 09:07 | |
| Antimony, Dissolved | ug/L | ND | 6.0 | 3.3 | 05/19/20 09:07 | |
| Arsenic, Dissolved | ug/L | ND | 5.0 | 2.0 | 05/19/20 09:07 | |
| Barium, Dissolved | ug/L | ND | 10.0 | 0.68 | 05/19/20 09:07 | |
| Beryllium, Dissolved | ug/L | ND | 1.0 | 0.17 | 05/19/20 09:07 | |
| Boron, Dissolved | ug/L | ND | 50.0 | 2.3 | 05/19/20 09:07 | |
| Cadmium, Dissolved | ug/L | ND | 3.0 | 0.34 | 05/19/20 09:07 | |
| Calcium, Dissolved | ug/L | ND | 1000 | 99.9 | 05/19/20 09:07 | |
| Chromium, Dissolved | ug/L | ND | 5.0 | 0.35 | 05/19/20 09:07 | |
| Cobalt, Dissolved | ug/L | ND | 5.0 | 0.53 | 05/19/20 09:07 | |
| Copper, Dissolved | ug/L | ND | 5.0 | 2.7 | 05/19/20 09:07 | |
| Iron, Dissolved | ug/L | ND | 70.0 | 40.9 | 05/19/20 09:07 | |
| Lead, Dissolved | ug/L | ND | 5.0 | 4.9 | 05/19/20 09:07 | |
| Magnesium, Dissolved | ug/L | ND | 200 | 28.4 | 05/19/20 09:07 | |
| Manganese, Dissolved | ug/L | ND | 5.0 | 1.2 | 05/19/20 09:07 | |
| Molybdenum, Dissolved | ug/L | ND | 20.0 | 0.85 | 05/19/20 09:07 | |
| Nickel, Dissolved | ug/L | ND | 10.0 | 1.5 | 05/19/20 09:07 | |
| Potassium, Dissolved | ug/L | ND | 500 | 72.4 | 05/19/20 09:07 | |
| Selenium, Dissolved | ug/L | ND | 8.0 | 5.5 | 05/19/20 09:07 | |
| Silver, Dissolved | ug/L | ND | 6.0 | 1.4 | 05/19/20 09:07 | |
| Sodium, Dissolved | ug/L | ND | 1000 | 423 | 05/19/20 09:07 | |
| Thallium, Dissolved | ug/L | ND | 10.0 | 4.0 | 05/19/20 09:07 | |
| Vanadium, Dissolved | ug/L | ND | 5.0 | 0.57 | 05/19/20 09:07 | |
| Zinc, Dissolved | ug/L | ND | 10.0 | 2.4 | 05/19/20 09:07 | |

LABORATORY CONTROL SAMPLE: 1921261

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Aluminum, Dissolved | ug/L | 5000 | 4610 | 92 | 80-120 | |
| Antimony, Dissolved | ug/L | 500 | 466 | 93 | 80-120 | |
| Arsenic, Dissolved | ug/L | 500 | 460 | 92 | 80-120 | |
| Barium, Dissolved | ug/L | 500 | 454 | 91 | 80-120 | |
| Beryllium, Dissolved | ug/L | 500 | 460 | 92 | 80-120 | |
| Boron, Dissolved | ug/L | 500 | 462 | 92 | 80-120 | |
| Cadmium, Dissolved | ug/L | 500 | 469 | 94 | 80-120 | |
| Calcium, Dissolved | ug/L | 5000 | 4620 | 92 | 80-120 | |
| Chromium, Dissolved | ug/L | 500 | 457 | 91 | 80-120 | |
| Cobalt, Dissolved | ug/L | 500 | 451 | 90 | 80-120 | |
| Copper, Dissolved | ug/L | 500 | 463 | 93 | 80-120 | |

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## 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.: 30362816

LABORATORY CONTROL SAMPLE: 1921261

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Iron, Dissolved | ug/L | 5000 | 4640 | 93 | 80-120 | |
| Lead, Dissolved | ug/L | 500 | 452 | 90 | 80-120 | |
| Magnesium, Dissolved | ug/L | 5000 | 4540 | 91 | 80-120 | |
| Manganese, Dissolved | ug/L | 500 | 508 | 102 | 80-120 | |
| Molybdenum, Dissolved | ug/L | 500 | 448 | 90 | 80-120 | |
| Nickel, Dissolved | ug/L | 500 | 473 | 95 | 80-120 | |
| Potassium, Dissolved | ug/L | 5000 | 4620 | 92 | 80-120 | |
| Selenium, Dissolved | ug/L | 500 | 465 | 93 | 80-120 | |
| Silver, Dissolved | ug/L | 250 | 232 | 93 | 80-120 | |
| Sodium, Dissolved | ug/L | 5000 | 4740 | 95 | 80-120 | |
| Thallium, Dissolved | ug/L | 500 | 447 | 89 | 80-120 | |
| Vanadium, Dissolved | ug/L | 500 | 448 | 90 | 80-120 | |
| Zinc, Dissolved | ug/L | 500 | 460 | 92 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921263 1921264

| Parameter | Units | 30362816001 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 | ND | 5000 | 5000 | 5200 | 5060 | 104 | 101 | 75-125 | 3 | 20 | |
| Antimony, Dissolved | ug/L | ND | 500 | 500 | 503 | 493 | 101 | 99 | 75-125 | 2 | 20 | |
| Arsenic, Dissolved | ug/L | ND | 500 | 500 | 520 | 508 | 104 | 101 | 75-125 | 2 | 20 | |
| Barium, Dissolved | ug/L | 205 | 500 | 500 | 725 | 699 | 104 | 99 | 75-125 | 4 | 20 | |
| Beryllium, Dissolved | ug/L | ND | 500 | 500 | 523 | 502 | 105 | 100 | 75-125 | 4 | 20 | |
| Boron, Dissolved | ug/L | 456 | 500 | 500 | 990 | 973 | 107 | 103 | 75-125 | 2 | 20 | |
| Cadmium, Dissolved | ug/L | ND | 500 | 500 | 514 | 501 | 103 | 100 | 75-125 | 3 | 20 | |
| Calcium, Dissolved | ug/L | 157000 | 5000 | 5000 | 169000 | 162000 | 226 | 92 | 75-125 | 4 | 20 | MH |
| Chromium, Dissolved | ug/L | ND | 500 | 500 | 509 | 496 | 102 | 99 | 75-125 | 3 | 20 | |
| Cobalt, Dissolved | ug/L | ND | 500 | 500 | 517 | 502 | 103 | 100 | 75-125 | 3 | 20 | |
| Copper, Dissolved | ug/L | ND | 500 | 500 | 520 | 499 | 104 | 100 | 75-125 | 4 | 20 | |
| Iron, Dissolved | ug/L | 1350 | 5000 | 5000 | 6510 | 6650 | 103 | 106 | 75-125 | 2 | 20 | |
| Lead, Dissolved | ug/L | ND | 500 | 500 | 504 | 490 | 101 | 98 | 75-125 | 3 | 20 | |
| Magnesium, Dissolved | ug/L | 23600 | 5000 | 5000 | 29500 | 28300 | 117 | 93 | 75-125 | 4 | 20 | |
| Manganese, Dissolved | ug/L | 5500 | 500 | 500 | 6230 | 6000 | 146 | 99 | 75-125 | 4 | 20 | MH |
| Molybdenum, Dissolved | ug/L | ND | 500 | 500 | 533 | 524 | 106 | 105 | 75-125 | 2 | 20 | |
| Nickel, Dissolved | ug/L | ND | 500 | 500 | 498 | 484 | 100 | 97 | 75-125 | 3 | 20 | |
| Potassium, Dissolved | ug/L | 8790 | 5000 | 5000 | 14600 | 14100 | 117 | 107 | 75-125 | 4 | 20 | |
| Selenium, Dissolved | ug/L | ND | 500 | 500 | 508 | 497 | 102 | 99 | 75-125 | 2 | 20 | |
| Silver, Dissolved | ug/L | ND | 250 | 250 | 261 | 256 | 104 | 103 | 75-125 | 2 | 20 | |
| Sodium, Dissolved | ug/L | 19000 | 5000 | 5000 | 25200 | 24100 | 126 | 103 | 75-125 | 5 | 20 | MH |
| Thallium, Dissolved | ug/L | ND | 500 | 500 | 483 | 469 | 97 | 94 | 75-125 | 3 | 20 | |
| Vanadium, Dissolved | ug/L | ND | 500 | 500 | 510 | 495 | 102 | 99 | 75-125 | 3 | 20 | |
| Zinc, Dissolved | ug/L | ND | 500 | 500 | 488 | 472 | 98 | 94 | 75-125 | 3 | 20 | |

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## 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.: 30362816

SAMPLE DUPLICATE: 1921262

| Parameter | Units | 30362816001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Aluminum, Dissolved | ug/L | ND | ND | | 20 | |
| Antimony, Dissolved | ug/L | ND | ND | | 20 | |
| Arsenic, Dissolved | ug/L | ND | ND | | 20 | |
| Barium, Dissolved | ug/L | 205 | 206 | 0 | 20 | |
| Beryllium, Dissolved | ug/L | ND | ND | | 20 | |
| Boron, Dissolved | ug/L | 456 | 483 | 6 | 20 | |
| Cadmium, Dissolved | ug/L | ND | .4J | | 20 | |
| Calcium, Dissolved | ug/L | 157000 | 157000 | 0 | 20 | |
| Chromium, Dissolved | ug/L | ND | .54J | | 20 | |
| Cobalt, Dissolved | ug/L | ND | ND | | 20 | |
| Copper, Dissolved | ug/L | ND | ND | | 20 | |
| Iron, Dissolved | ug/L | 1350 | 1320 | 2 | 20 | |
| Lead, Dissolved | ug/L | ND | ND | | 20 | |
| Magnesium, Dissolved | ug/L | 23600 | 23600 | 0 | 20 | |
| Manganese, Dissolved | ug/L | 5500 | 5530 | 1 | 20 | |
| Molybdenum, Dissolved | ug/L | ND | ND | | 20 | |
| Nickel, Dissolved | ug/L | ND | ND | | 20 | |
| Potassium, Dissolved | ug/L | 8790 | 8860 | 1 | 20 | |
| Selenium, Dissolved | ug/L | ND | ND | | 20 | |
| Silver, Dissolved | ug/L | ND | ND | | 20 | |
| Sodium, Dissolved | ug/L | 19000 | 19100 | 1 | 20 | |
| Thallium, Dissolved | ug/L | ND | ND | | 20 | |
| Vanadium, Dissolved | ug/L | ND | 1.2J | | 20 | |
| Zinc, Dissolved | ug/L | ND | ND | | 20 | |

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## 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.: 30362816

QC Batch: 396342 | Analysis Method: EPA 8270D
QC Batch Method: EPA 3510C | Analysis Description: 8270D Water MSSV
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30362816001, 30362816002, 30362816003

METHOD BLANK: 1919688 Matrix: Water
Associated Lab Samples: 30362816001, 30362816002, 30362816003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/L | ND | 1.0 | 0.32 | 05/14/20 17:37 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1.0 | 0.34 | 05/14/20 17:37 | |
| 1,3-Dichlorobenzene | ug/L | ND | 1.0 | 0.30 | 05/14/20 17:37 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 0.28 | 05/14/20 17:37 | |
| 1-Methylnaphthalene | ug/L | ND | 1.0 | 0.36 | 05/14/20 17:37 | |
| 2,4,5-Trichlorophenol | ug/L | ND | 2.5 | 0.67 | 05/14/20 17:37 | |
| 2,4,6-Trichlorophenol | ug/L | ND | 1.0 | 0.37 | 05/14/20 17:37 | |
| 2,4-Dichlorophenol | ug/L | ND | 1.0 | 0.34 | 05/14/20 17:37 | |
| 2,4-Dimethylphenol | ug/L | ND | 1.0 | 0.36 | 05/14/20 17:37 | |
| 2,4-Dinitrophenol | ug/L | ND | 2.5 | 0.58 | 05/14/20 17:37 | CH |
| 2,4-Dinitrotoluene | ug/L | ND | 1.0 | 0.36 | 05/14/20 17:37 | |
| 2,6-Dinitrotoluene | ug/L | ND | 1.0 | 0.40 | 05/14/20 17:37 | |
| 2-Chloronaphthalene | ug/L | ND | 1.0 | 0.33 | 05/14/20 17:37 | |
| 2-Chlorophenol | ug/L | ND | 1.0 | 0.32 | 05/14/20 17:37 | |
| 2-Methylnaphthalene | ug/L | ND | 1.0 | 0.34 | 05/14/20 17:37 | |
| 2-Methylphenol(o-Cresol) | ug/L | ND | 1.0 | 0.37 | 05/14/20 17:37 | |
| 2-Nitroaniline | ug/L | ND | 2.5 | 0.71 | 05/14/20 17:37 | |
| 2-Nitrophenol | ug/L | ND | 1.0 | 0.35 | 05/14/20 17:37 | |
| 3&4-Methylphenol(m&p Cresol) | ug/L | ND | 2.0 | 1.9 | 05/14/20 17:37 | |
| 3,3'-Dichlorobenzidine | ug/L | ND | 1.0 | 0.23 | 05/14/20 17:37 | |
| 3-Nitroaniline | ug/L | ND | 2.5 | 0.96 | 05/14/20 17:37 | |
| 4,6-Dinitro-2-methylphenol | ug/L | ND | 2.5 | 0.64 | 05/14/20 17:37 | |
| 4-Bromophenylphenyl ether | ug/L | ND | 1.0 | 0.39 | 05/14/20 17:37 | |
| 4-Chloro-3-methylphenol | ug/L | ND | 1.0 | 0.44 | 05/14/20 17:37 | |
| 4-Chloroaniline | ug/L | ND | 1.0 | 0.21 | 05/14/20 17:37 | |
| 4-Chlorophenylphenyl ether | ug/L | ND | 1.0 | 0.36 | 05/14/20 17:37 | |
| 4-Nitroaniline | ug/L | ND | 2.5 | 1.9 | 05/14/20 17:37 | |
| 4-Nitrophenol | ug/L | ND | 1.0 | 0.76 | 05/14/20 17:37 | |
| Acenaphthene | ug/L | ND | 1.0 | 0.39 | 05/14/20 17:37 | |
| Acenaphthylene | ug/L | ND | 1.0 | 0.38 | 05/14/20 17:37 | |
| Anthracene | ug/L | ND | 1.0 | 0.27 | 05/14/20 17:37 | |
| Azobenzene | ug/L | ND | 1.0 | 0.35 | 05/14/20 17:37 | |
| Benzo(a)anthracene | ug/L | ND | 1.0 | 0.20 | 05/14/20 17:37 | |
| Benzo(a)pyrene | ug/L | ND | 1.0 | 0.18 | 05/14/20 17:37 | |
| Benzo(b)fluoranthene | ug/L | ND | 1.0 | 0.24 | 05/14/20 17:37 | |
| Benzo(g,h,i)perylene | ug/L | ND | 1.0 | 0.30 | 05/14/20 17:37 | |
| Benzo(k)fluoranthene | ug/L | ND | 1.0 | 0.26 | 05/14/20 17:37 | |
| Benzoic acid | ug/L | ND | 15.0 | 2.8 | 05/14/20 17:37 | |
| Benzyl alcohol | ug/L | ND | 1.0 | 0.70 | 05/14/20 17:37 | |
| bis(2-Chloroethoxy)methane | ug/L | ND | 1.0 | 0.36 | 05/14/20 17:37 | |

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## 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.: 30362816

METHOD BLANK: 1919688 Matrix: Water
Associated Lab Samples: 30362816001, 30362816002, 30362816003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| bis(2-Chloroethyl) ether | ug/L | ND | 1.0 | 0.41 | 05/14/20 17:37 | |
| bis(2-Chloroisopropyl) ether | ug/L | ND | 1.0 | 0.40 | 05/14/20 17:37 | |
| bis(2-Ethylhexyl)phthalate | ug/L | ND | 1.0 | 0.36 | 05/14/20 17:37 | |
| Butylbenzylphthalate | ug/L | ND | 1.0 | 0.30 | 05/14/20 17:37 | |
| Carbazole | ug/L | ND | 1.0 | 0.23 | 05/14/20 17:37 | |
| Chrysene | ug/L | ND | 1.0 | 0.21 | 05/14/20 17:37 | |
| Di-n-butylphthalate | ug/L | ND | 1.0 | 0.32 | 05/14/20 17:37 | |
| Di-n-octylphthalate | ug/L | ND | 1.0 | 0.27 | 05/14/20 17:37 | |
| Dibenz(a,h)anthracene | ug/L | ND | 1.0 | 0.31 | 05/14/20 17:37 | |
| Dibenzofuran | ug/L | ND | 1.0 | 0.36 | 05/14/20 17:37 | |
| Diethylphthalate | ug/L | ND | 1.0 | 0.36 | 05/14/20 17:37 | |
| Dimethylphthalate | ug/L | ND | 1.0 | 0.44 | 05/14/20 17:37 | |
| Fluoranthene | ug/L | ND | 1.0 | 0.23 | 05/14/20 17:37 | |
| Fluorene | ug/L | ND | 1.0 | 0.37 | 05/14/20 17:37 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 1.0 | 0.33 | 05/14/20 17:37 | |
| Hexachlorobenzene | ug/L | ND | 1.0 | 0.30 | 05/14/20 17:37 | |
| Hexachlorocyclopentadiene | ug/L | ND | 1.0 | 0.19 | 05/14/20 17:37 | |
| Hexachloroethane | ug/L | ND | 1.0 | 0.30 | 05/14/20 17:37 | |
| Indeno(1,2,3-cd)pyrene | ug/L | ND | 1.0 | 0.30 | 05/14/20 17:37 | |
| Isophorone | ug/L | ND | 1.0 | 0.57 | 05/14/20 17:37 | |
| N-Nitroso-di-n-propylamine | ug/L | ND | 1.0 | 0.54 | 05/14/20 17:37 | |
| N-Nitrosodimethylamine | ug/L | ND | 1.0 | 0.26 | 05/14/20 17:37 | |
| N-Nitrosodiphenylamine | ug/L | ND | 1.0 | 0.25 | 05/14/20 17:37 | |
| Naphthalene | ug/L | ND | 1.0 | 0.35 | 05/14/20 17:37 | |
| Nitrobenzene | ug/L | ND | 1.0 | 0.38 | 05/14/20 17:37 | |
| Pentachlorophenol | ug/L | ND | 2.5 | 1.0 | 05/14/20 17:37 | |
| Phenanthrene | ug/L | ND | 1.0 | 0.34 | 05/14/20 17:37 | |
| Phenol | ug/L | ND | 1.0 | 0.22 | 05/14/20 17:37 | |
| Pyrene | ug/L | ND | 1.0 | 0.30 | 05/14/20 17:37 | |
| 2,4,6-Tribromophenol (S) | %. | 79 | 10-140 | | 05/14/20 17:37 | |
| 2-Fluorobiphenyl (S) | %. | 65 | 10-135 | | 05/14/20 17:37 | |
| 2-Fluorophenol (S) | %. | 42 | 10-142 | | 05/14/20 17:37 | |
| Nitrobenzene-d5 (S) | %. | 67 | 10-140 | | 05/14/20 17:37 | |
| Phenol-d6 (S) | %. | 30 | 10-145 | | 05/14/20 17:37 | |
| Terphenyl-d14 (S) | %. | 69 | 10-128 | | 05/14/20 17:37 | |

LABORATORY CONTROL SAMPLE: 1919689

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/L | 10 | 6.2 | 62 | 21-84 | |
| 1,2-Dichlorobenzene | ug/L | 10 | 5.7 | 57 | 18-89 | |
| 1,3-Dichlorobenzene | ug/L | 10 | 5.4 | 54 | 18-87 | |
| 1,4-Dichlorobenzene | ug/L | 10 | 5.2 | 52 | 15-105 | |
| 1-Methylnaphthalene | ug/L | 10 | 6.7 | 67 | 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.: 30362816

LABORATORY CONTROL SAMPLE: 1919689

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | ug/L | 10 | 8.2 | 82 | 57-113 | |
| 2,4,6-Trichlorophenol | ug/L | 10 | 7.6 | 76 | 45-122 | |
| 2,4-Dichlorophenol | ug/L | 10 | 7.2 | 72 | 33-96 | |
| 2,4-Dimethylphenol | ug/L | 10 | 7.3 | 73 | 19-87 | |
| 2,4-Dinitrophenol | ug/L | 10 | 10.7 | 107 | 15-119 | CH |
| 2,4-Dinitrotoluene | ug/L | 10 | 8.6 | 86 | 40-119 | |
| 2,6-Dinitrotoluene | ug/L | 10 | 7.7 | 77 | 50-116 | |
| 2-Chloronaphthalene | ug/L | 10 | 6.6 | 66 | 30-101 | |
| 2-Chlorophenol | ug/L | 10 | 6.2 | 62 | 27-97 | |
| 2-Methylnaphthalene | ug/L | 10 | 6.4 | 64 | 24-91 | |
| 2-Methylphenol(o-Cresol) | ug/L | 10 | 6.0 | 60 | 10-175 | |
| 2-Nitroaniline | ug/L | 10 | 7.6 | 76 | 48-120 | |
| 2-Nitrophenol | ug/L | 10 | 7.1 | 71 | 29-96 | |
| 3&4-Methylphenol(m&p Cresol) | ug/L | 20 | 11.9 | 60 | 21-131 | |
| 3,3'-Dichlorobenzidine | ug/L | 10 | 6.1 | 61 | 49-117 | |
| 3-Nitroaniline | ug/L | 10 | 7.0 | 70 | 52-114 | |
| 4,6-Dinitro-2-methylphenol | ug/L | 10 | 9.2 | 92 | 40-140 | |
| 4-Bromophenylphenyl ether | ug/L | 10 | 7.4 | 74 | 47-120 | |
| 4-Chloro-3-methylphenol | ug/L | 10 | 7.7 | 77 | 41-102 | |
| 4-Chloroaniline | ug/L | 10 | 5.7 | 57 | 22-79 | |
| 4-Chlorophenylphenyl ether | ug/L | 10 | 7.5 | 75 | 42-112 | |
| 4-Nitroaniline | ug/L | 10 | 10.6 | 106 | 46-136 | |
| 4-Nitrophenol | ug/L | 10 | 4.5 | 45 | 17-76 | |
| Acenaphthene | ug/L | 10 | 6.8 | 68 | 36-106 | |
| Acenaphthylene | ug/L | 10 | 7.3 | 73 | 35-103 | |
| Anthracene | ug/L | 10 | 7.6 | 76 | 56-106 | |
| Azobenzene | ug/L | 10 | 7.3 | 73 | 43-119 | |
| Benzo(a)anthracene | ug/L | 10 | 8.1 | 81 | 64-124 | |
| Benzo(a)pyrene | ug/L | 10 | 7.5 | 75 | 61-115 | |
| Benzo(b)fluoranthene | ug/L | 10 | 8.6 | 86 | 58-133 | |
| Benzo(g,h,i)perylene | ug/L | 10 | 8.1 | 81 | 40-142 | |
| Benzo(k)fluoranthene | ug/L | 10 | 7.6 | 76 | 61-121 | |
| Benzoic acid | ug/L | 10 | 5.1J | 51 | 10-43 | L1 |
| Benzyl alcohol | ug/L | 10 | 6.8 | 68 | 29-106 | |
| bis(2-Chloroethoxy)methane | ug/L | 10 | 6.6 | 66 | 33-96 | |
| bis(2-Chloroethyl) ether | ug/L | 10 | 6.5 | 65 | 25-98 | |
| bis(2-Chloroisopropyl) ether | ug/L | 10 | 6.2 | 62 | 23-104 | |
| bis(2-Ethylhexyl)phthalate | ug/L | 10 | 7.6 | 76 | 65-141 | |
| Butylbenzylphthalate | ug/L | 10 | 8.2 | 82 | 64-142 | |
| Carbazole | ug/L | 10 | 6.8 | 68 | 59-112 | |
| Chrysene | ug/L | 10 | 7.7 | 77 | 63-120 | |
| Di-n-butylphthalate | ug/L | 10 | 8.0 | 80 | 69-126 | |
| Di-n-octylphthalate | ug/L | 10 | 8.1 | 81 | 61-145 | |
| Dibenz(a,h)anthracene | ug/L | 10 | 8.3 | 83 | 52-138 | |
| Dibenzofuran | ug/L | 10 | 7.0 | 70 | 39-107 | |
| Diethylphthalate | ug/L | 10 | 7.8 | 78 | 61-117 | |
| Dimethylphthalate | ug/L | 10 | 7.5 | 75 | 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.: 30362816

LABORATORY CONTROL SAMPLE: 1919689

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Fluoranthene | ug/L | 10 | 7.8 | 78 | 65-119 | |
| Fluorene | ug/L | 10 | 7.2 | 72 | 44-110 | |
| Hexachloro-1,3-butadiene | ug/L | 10 | 5.9 | 59 | 13-112 | |
| Hexachlorobenzene | ug/L | 10 | 7.3 | 73 | 17-121 | |
| Hexachlorocyclopentadiene | ug/L | 10 | 4.4 | 44 | 10-83 | |
| Hexachloroethane | ug/L | 10 | 5.4 | 54 | 13-108 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 10 | 8.2 | 82 | 48-140 | |
| Isophorone | ug/L | 10 | 6.5 | 65 | 34-93 | |
| N-Nitroso-di-n-propylamine | ug/L | 10 | 6.9 | 69 | 34-106 | |
| N-Nitrosodimethylamine | ug/L | 10 | 4.5 | 45 | 17-82 | |
| N-Nitrosodiphenylamine | ug/L | 10 | 7.2 | 72 | 34-97 | |
| Naphthalene | ug/L | 10 | 6.2 | 62 | 23-90 | |
| Nitrobenzene | ug/L | 10 | 6.7 | 67 | 26-128 | |
| Pentachlorophenol | ug/L | 10 | 10.1 | 101 | 37-125 | |
| Phenanthrene | ug/L | 10 | 7.6 | 76 | 56-112 | |
| Phenol | ug/L | 10 | 2.8 | 28 | 10-58 | |
| Pyrene | ug/L | 10 | 7.3 | 73 | 56-128 | |
| 2,4,6-Tribromophenol (S) | %. | | | 80 | 10-140 | |
| 2-Fluorobiphenyl (S) | %. | | | 69 | 10-135 | |
| 2-Fluorophenol (S) | %. | | | 40 | 10-142 | |
| Nitrobenzene-d5 (S) | %. | | | 68 | 10-140 | |
| Phenol-d6 (S) | %. | | | 27 | 10-145 | |
| Terphenyl-d14 (S) | %. | | | 68 | 10-128 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919690 1919691

| Parameter | Units | 30362816001 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 | 9.8 | 6.9J | 3.7J | 71 | 38 | 10-77 | | 25 | |
| 1,2-Dichlorobenzene | ug/L | ND | 9.7 | 9.8 | 6.6J | 3.5J | 68 | 36 | 10-87 | | 25 | |
| 1,3-Dichlorobenzene | ug/L | ND | 9.7 | 9.8 | 6.3J | 3.5J | 65 | 35 | 10-77 | | 25 | |
| 1,4-Dichlorobenzene | ug/L | ND | 9.7 | 9.8 | 6.3J | 3.6J | 65 | 37 | 10-92 | | 25 | |
| 1-Methylnaphthalene | ug/L | ND | 9.7 | 9.8 | 9.2J | 5J | 87 | 43 | 10-83 | | 25 | M6 |
| 2,4,5-Trichlorophenol | ug/L | ND | 9.7 | 9.8 | 9.7J | 7.8J | 100 | 80 | 32-129 | | 25 | |
| 2,4,6-Trichlorophenol | ug/L | ND | 9.7 | 9.8 | 9.4J | 6.9J | 97 | 70 | 25-130 | | 25 | |
| 2,4-Dichlorophenol | ug/L | ND | 9.7 | 9.8 | 8.3J | 4.4J | 86 | 45 | 19-100 | | 25 | |
| 2,4-Dimethylphenol | ug/L | ND | 9.7 | 9.8 | 9.2J | 5.3J | 95 | 54 | 10-93 | | 25 | M6 |
| 2,4-Dinitrophenol | ug/L | ND | 9.7 | 9.8 | 11.4J | 8.4J | 117 | 85 | 10-165 | | 25 | CH |
| 2,4-Dinitrotoluene | ug/L | ND | 9.7 | 9.8 | 9.3J | 9J | 96 | 92 | 37-123 | | 25 | |
| 2,6-Dinitrotoluene | ug/L | ND | 9.7 | 9.8 | 8J | 8.4J | 82 | 86 | 30-118 | | 25 | |
| 2-Chloronaphthalene | ug/L | ND | 9.7 | 9.8 | 9J | 4.8J | 93 | 49 | 14-98 | | 25 | |
| 2-Chlorophenol | ug/L | ND | 9.7 | 9.8 | 7.3J | 3.9J | 76 | 40 | 10-99 | | 25 | |
| 2-Methylnaphthalene | ug/L | ND | 9.7 | 9.8 | 7.6J | 4J | 79 | 41 | 10-89 | | 25 | |
| 2-Methylphenol(o-Cresol) | ug/L | ND | 9.7 | 9.8 | 6.6J | 4J | 68 | 41 | 10-120 | | 25 | |
| 2-Nitroaniline | ug/L | ND | 9.7 | 9.8 | 9J | 7.2J | 93 | 73 | 31-120 | | 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.: 30362816

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919690 1919691

| Parameter | Units | 30362816001 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 | 9.8 | 9J | 4.6J | 92 | 47 | 14-97 | | 25 | |
| 3&4-Methylphenol(m&p Cresol) | ug/L | ND | 19.4 | 19.6 | ND | ND | 66 | 37 | 10-132 | | 25 | |
| 3,3'-Dichlorobenzidine | ug/L | ND | 9.7 | 9.8 | ND | ND | 0 | 0 | 10-112 | | 25 | M6 |
| 3-Nitroaniline | ug/L | ND | 9.7 | 9.8 | ND | ND | 63 | 55 | 10-138 | | 25 | |
| 4,6-Dinitro-2-methylphenol | ug/L | ND | 9.7 | 9.8 | 11J | 9.2J | 113 | 94 | 14-154 | | 25 | |
| 4-Bromophenylphenyl ether | ug/L | ND | 9.7 | 9.8 | 7.8J | 7.1J | 80 | 72 | 32-114 | | 25 | |
| 4-Chloro-3-methylphenol | ug/L | ND | 9.7 | 9.8 | 8.1J | 6.6J | 84 | 67 | 11-127 | | 25 | |
| 4-Chloroaniline | ug/L | ND | 9.7 | 9.8 | 5.8J | 4.2J | 60 | 43 | 10-90 | | 25 | |
| 4-Chlorophenylphenyl ether | ug/L | ND | 9.7 | 9.8 | 8.5J | 6.1J | 87 | 62 | 24-110 | | 25 | |
| 4-Nitroaniline | ug/L | ND | 9.7 | 9.8 | 18.8J | ND | 193 | 160 | 10-168 | | 25 | M6 |
| 4-Nitrophenol | ug/L | ND | 9.7 | 9.8 | ND | ND | 36 | 51 | 10-82 | | 25 | |
| Acenaphthene | ug/L | ND | 9.7 | 9.8 | 9.1J | 5.1J | 89 | 47 | 19-104 | | 25 | |
| Acenaphthylene | ug/L | ND | 9.7 | 9.8 | 8.5J | 5.1J | 87 | 52 | 15-102 | | 25 | |
| Anthracene | ug/L | ND | 9.7 | 9.8 | 8.4J | 8.2J | 83 | 81 | 34-108 | | 25 | |
| Azobenzene | ug/L | ND | 9.7 | 9.8 | 8.4J | 6.8J | 85 | 68 | 15-113 | | 25 | |
| Benzo(a)anthracene | ug/L | ND | 9.7 | 9.8 | 9.8 | 8.6J | 101 | 88 | 46-122 | | 25 | |
| Benzo(a)pyrene | ug/L | ND | 9.7 | 9.8 | 8.9J | 8.1J | 91 | 83 | 39-117 | | 25 | |
| Benzo(b)fluoranthene | ug/L | ND | 9.7 | 9.8 | 9.6J | 8.5J | 99 | 86 | 33-147 | | 25 | |
| Benzo(g,h,i)perylene | ug/L | ND | 9.7 | 9.8 | 9.4J | 7.3J | 97 | 74 | 10-124 | | 25 | |
| Benzo(k)fluoranthene | ug/L | ND | 9.7 | 9.8 | 9.1J | 9J | 93 | 92 | 44-130 | | 25 | |
| Benzoic acid | ug/L | ND | 9.7 | 9.8 | ND | ND | 48 | 34 | 10-99 | | 25 | |
| Benzyl alcohol | ug/L | ND | 9.7 | 9.8 | 8.2J | ND | 85 | 46 | 10-136 | | 25 | |
| bis(2-Chloroethoxy)methane | ug/L | ND | 9.7 | 9.8 | 8.7J | 4.6J | 90 | 47 | 10-99 | | 25 | |
| bis(2-Chloroethyl) ether | ug/L | ND | 9.7 | 9.8 | 7.4J | ND | 76 | 38 | 10-108 | | 25 | |
| bis(2-Chloroisopropyl) ether | ug/L | ND | 9.7 | 9.8 | 7.6J | 4.1J | 78 | 42 | 10-110 | | 25 | |
| bis(2-Ethylhexyl)phthalate | ug/L | ND | 9.7 | 9.8 | 8.7J | 8.7J | 90 | 89 | 43-136 | | 25 | |
| Butylbenzylphthalate | ug/L | ND | 9.7 | 9.8 | 9.6J | 9.6J | 99 | 97 | 51-134 | | 25 | |
| Carbazole | ug/L | ND | 9.7 | 9.8 | 9.3J | 9.1J | 95 | 93 | 50-114 | | 25 | |
| Chrysene | ug/L | ND | 9.7 | 9.8 | 8.9J | 8.5J | 91 | 87 | 44-121 | | 25 | |
| Di-n-butylphthalate | ug/L | ND | 9.7 | 9.8 | 9.1J | 9.9 | 88 | 96 | 50-123 | | 25 | |
| Di-n-octylphthalate | ug/L | ND | 9.7 | 9.8 | 9.1J | 8.7J | 94 | 89 | 27-164 | | 25 | |
| Dibenz(a,h)anthracene | ug/L | ND | 9.7 | 9.8 | 8.9J | 7.5J | 92 | 76 | 11-127 | | 25 | |
| Dibenzofuran | ug/L | ND | 9.7 | 9.8 | 8.6J | 5.7J | 87 | 56 | 22-105 | | 25 | |
| Diethylphthalate | ug/L | ND | 9.7 | 9.8 | 8.3J | 8.6J | 82 | 84 | 38-122 | | 25 | |
| Dimethylphthalate | ug/L | ND | 9.7 | 9.8 | 7.9J | 7.3J | 81 | 74 | 30-121 | | 25 | |
| Fluoranthene | ug/L | ND | 9.7 | 9.8 | 9.1J | 8.8J | 93 | 90 | 39-124 | | 25 | |
| Fluorene | ug/L | ND | 9.7 | 9.8 | 9.3J | 7.1J | 88 | 64 | 23-111 | | 25 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 9.7 | 9.8 | 6.6J | ND | 68 | 30 | 10-99 | | 25 | |
| Hexachlorobenzene | ug/L | ND | 9.7 | 9.8 | 7.9J | 6.6J | 82 | 68 | 34-114 | | 25 | |
| Hexachlorocyclopentadiene | ug/L | ND | 9.7 | 9.8 | 4J | 2.1J | 42 | 21 | 10-65 | | 25 | |
| Hexachloroethane | ug/L | ND | 9.7 | 9.8 | 6.1J | ND | 63 | 25 | 10-128 | | 25 | |
| Indeno(1,2,3-cd)pyrene | ug/L | ND | 9.7 | 9.8 | 9.1J | 7.5J | 94 | 76 | 11-126 | | 25 | |
| Isophorone | ug/L | ND | 9.7 | 9.8 | 7.9J | ND | 81 | 46 | 10-102 | | 25 | |
| N-Nitroso-di-n-propylamine | ug/L | ND | 9.7 | 9.8 | 8.2J | ND | 85 | 43 | 10-124 | | 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.: 30362816

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919690 1919691

| Parameter | Units | 30362816001 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 | 9.8 | 5.3J | 3J | 54 | 31 | 10-72 | | 25 | |
| N-Nitrosodiphenylamine | ug/L | ND | 9.7 | 9.8 | 8.1J | 7.6J | 80 | 74 | 10-110 | | 25 | |
| Naphthalene | ug/L | ND | 9.7 | 9.8 | 8J | 4.2J | 83 | 43 | 10-84 | | 25 | |
| Nitrobenzene | ug/L | ND | 9.7 | 9.8 | 8.4J | 4.6J | 87 | 47 | 11-114 | | 25 | |
| Pentachlorophenol | ug/L | ND | 9.7 | 9.8 | 11.6J | 11.1J | 119 | 113 | 10-175 | | 25 | |
| Phenanthrene | ug/L | ND | 9.7 | 9.8 | 9J | 9.4J | 88 | 93 | 34-117 | | 25 | |
| Phenol | ug/L | ND | 9.7 | 9.8 | 2.8J | ND | 29 | 18 | 10-46 | | 25 | |
| Pyrene | ug/L | ND | 9.7 | 9.8 | 8.8J | 8.2J | 90 | 83 | 35-127 | | 25 | |
| 2,4,6-Tribromophenol (S) | %. | | | | | | 86 | 84 | 10-140 | | | |
| 2-Fluorobiphenyl (S) | %. | | | | | | 77 | 47 | 10-135 | | | |
| 2-Fluorophenol (S) | %. | | | | | | 42 | 21 | 10-142 | | | |
| Nitrobenzene-d5 (S) | %. | | | | | | 83 | 42 | 10-140 | | | |
| Phenol-d6 (S) | %. | | | | | | 27 | 15 | 10-145 | | | |
| Terphenyl-d14 (S) | %. | | | | | | 76 | 75 | 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.: 30362816

## 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 high. |
| 3c | The precision between the sample and serial dilution exceeded laboratory control limits. |
| CH | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high. |
| 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. |
| M6 | Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution. |
| MH | Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high. |
| 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.: 30362816

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **30362816001** | **MW-32** | EPA 3005A | 396328 | EPA 6010C | 396432 |
| **30362816002** | **DUP** | EPA 3005A | 396328 | EPA 6010C | 396432 |
| **30362816003** | **MW-33** | EPA 3005A | 396328 | EPA 6010C | 396432 |
| **30362816001** | **MW-32** | EPA 3005A | 396642 | EPA 6010C | 396701 |
| **30362816002** | **DUP** | EPA 3005A | 396642 | EPA 6010C | 396701 |
| **30362816003** | **MW-33** | EPA 3005A | 396642 | EPA 6010C | 396701 |
| **30362816001** | **MW-32** | EPA 7470A | 396592 | EPA 7470A | 396686 |
| **30362816002** | **DUP** | EPA 7470A | 396592 | EPA 7470A | 396686 |
| **30362816003** | **MW-33** | EPA 7470A | 396592 | EPA 7470A | 396686 |
| **30362816001** | **MW-32** | EPA 7470A | 396838 | EPA 7470A | 396896 |
| **30362816002** | **DUP** | EPA 7470A | 396838 | EPA 7470A | 396896 |
| **30362816003** | **MW-33** | EPA 7470A | 396838 | EPA 7470A | 396896 |
| **30362816001** | **MW-32** | EPA 3510C | 396342 | EPA 8270D | 396412 |
| **30362816002** | **DUP** | EPA 3510C | 396342 | EPA 8270D | 396412 |
| **30362816003** | **MW-33** | EPA 3510C | 396342 | EPA 8270D | 396412 |

To Pittsburgh

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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 #: | |

**Section C — Invoice Information:**

| | |
|---|---|
| Attention: | Adam Schultz |
| Company Name: | Gouvin White |
| Address: | PO Box 22222 Albany, NY |
| Pace Quote: | |
| Pace Project Manager: | haccount@pacelabs.com, Samantha Bayuk |
| Pace Profile #: | 0 |

Regulatory Agency: NY (State / Location)

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: 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-32 | | | 5/11/20 | 8:40AM | | | | | | | | | | | | | | X | X | X | | 001 |
| 2 | DUP | | | 5/11/20 | 8:40AM | | | | | | | | | | | | | | X | X | X | | 002 |
| 3 | MS | | | 5/11/20 | 8:40AM | | | | | | | | | | | | | | X | X | X | | 001 |
| 4 | MSD | | | 5/11/20 | 8:40AM | | | | | | | | | | | | | | X | X | X | | ↓ |
| 5 | MW-33 | | | 5/11/20 | 9:30AM | | | | | | | | | | | | | | X | X | X | | 003 |
| 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | |

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

WO# : 30362816

30362816

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|---|
| | D Reinhardt | 5/11/20 | 11:33 | PACE | 5-11-20 | 11 33 |
| | PACE | 5-11-20 | 16 00 | FEDEX Nicole Russo | 5/13/20 | 0915 |

| SAMPLE CONDITIONS | | | |
|---|---|---|---|
| 5.4 | | | |
| NA | Y | Y | Y |
| RMK 5/13/2020 | | | |
| TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rachel Farnum

SIGNATURE of SAMPLER: [signature] DATE Signed: 5/11/20

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Envirospec Project # # 30362816

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

Label NMR
LIMS Login NMR

Tracking #: 122483316789

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

Thermometer Used 11 Type of Ice: (Wet) Blue None (melted)

Cooler Temperature Observed Temp 5.7 °C Correction Factor: -0.3 °C Final Temp: 5.4 °C

Temp should be above freezing to 6°C

pH paper Lot# 10D4191 Date and Initials of person examining contents: NMR 5/13/2019

| Comments: | Yes | No | N/A | |
|---|---|---|---|---|
| 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: | ✓ | | | 5. |
| -Includes date/time/ID Matrix: WT | | | | |
| 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 NMR 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: Date: |

**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.