

31 July 2014

Ms. Dana Kutz Pennsylvania Department of Environmental Protection 2 East Main Street Norristown, PA 19401

RE:

The Devereux Foundation

100 Shaw Drive

Glenmoore, PA 19343

Facility ID # 15-25097-9002

eFACTS Primary Facility No 586111

Dear Ms. Kutz:

Enclosed, please find the Quarterly Report prepared by Aquaterra Technologies, Inc. (Aquaterra) for the above referenced site. The report presents a summary of site activities including product removal and a quarterly groundwater sampling conducted at this site during the second quarter of 2014.

Should you have any questions or comments regarding this report, please contact the either of the undersigned at (610) 431-5733. Thank you.

L. Doerr, P.G.

Semor Hydrogeologist

Respectfully submitted, AQUATERRA TECHNOLOGIES, INC.

Shaun Sykes

Staff Scientist

Enclosure

cc:

Diane Drumheller – Devereux

Barb Lippman- ECS

Patricia Condran – USTIF Claim# 2012-0058(M)

Aquaterra Electronic File

By affixing my seal to this document, I am certifying that to the best of my knowledge the information is true and correct. I further certify that I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information.



QUARTERLY REPORT 2ND QUARTER 2014

THE DEVEREUX SCHOOL 100 SHAW DRIVE GLENMOORE, CHESTER COUNTY, PA FACILITY ID# 15-25097-9002

GENERAL INFORMATION:

ECS Manager:

Aquaterra Project Manager:

PADEP Case Manager:

County:

Municipality:

Barbara Lippmann, President

Tiffani L. Doerr, P.G.

Dana Kutz-PADEP Southeast Region

Chester County

Wallace Township

SITE HISTORY:

- On 21 April 2012, Trammel Testing Company was onsite to perform testing on 3,000 gallon #2 fuel oil underground storage tank (UST) due to a suspected leak. The UST failed the tank test. The tank testing technician verbally notified PADEP Southeast Regional Office of tank failure and suspected release on 21 April 2012; and on 23 April 2012, an initial Notification of Reportable Release form was submitted to PADEP Southeast Regional office.
- During tank removal activities on 27 April 2012, Aquaterra conducted soil sampling from underneath the tank. Four soil samples (H-1 through H-4) were collected from the bottom of the excavation at approximately 10 feet below grade. During excavation activities approximately 20 tons of contaminated soil was removed for disposal.
- On 30 April 2012, Aquaterra collected soil samples from the excavation. Soil sample locations were determined using PADEP's random and systematic soil sampling procedures. A total of 12 soil attainment samples (SS-1 through SS-12) were collected from the excavated area.
- On 4-5 June 2012, Aquaterra conducted a soil boring investigation to characterize soil quality surrounding the former heating oil UST (SB-1 through SB-10).
- On 14/15 June 2012 additional soil was excavated beneath the tank to approximately 25 feet below grade. An additional 107 tons of soil was removed and disposed of at a Soil Safe facility.
- In November 2012, Aquaterra was onsite to oversee the installation of three monitoring wells (MW-1 through MW-3). Two soil samples were collected from each borehole.
- Quarterly groundwater sampling was initiated at the site on 11 December 2012.
- On 11 December 2012, liquid level data were collected from monitoring wells MW-1 through MW-3. Groundwater quality samples were collected from MW-2 and MW-3. A groundwater quality sample was not collected from MW-1 due to the presence of product in the well. Free phase oil was measured in MW-1 at a thickness of 5.66 feet.
- A vacuum truck was onsite on 19 December 2012 to extract the product and groundwater from MW-1. The well was vacuumed until no free phase product was measured. Approximately 32 gallons of product and 124 gallons of contaminated water were removed. Subsequent product removal activities included routine hand bailing and/or pumping, and installation of a passive skimmer.



- On 11-13 March 2013, Aquaterra was onsite to oversee the installation of three monitoring wells (MW-4 through MW-6) and the installation of soil gas vapor point (SG-1). Soil samples were not collected from MW-4 and MW-5 due to PID readings were 0.0 ppm. A soil sample was collected from MW-6 at a depth of 25 feet. Geotechnical sample was also collected from MW-6 at the 27'-29' interval.
- Four soil borings (SB-11 through SB-14) were installed on 26 September 2013. Soil samples were collected for laboratory analysis from SB-11 and SB-12. A soil sample was not collected from SB-13 because all PID readings were 0.0 ppm. A soil sample was not collected from SB-14 due to shallow geoprobe refusal.

SITE INFORMATION:

Well Specifications: Six four-inch monitoring wells (MW-1 through

MW-6).

Groundwater Sampling Frequency: Quarterly

Groundwater Analytical Method: EPA Method 8260B (benzene, toluene,

ethylbenzene, methyl tertiary-butyl ether (MTBE), isopropylbenzene, naphthalene, 1,2,4-trimethylbenzene (TMB), and 1,3,5-

TMB.

RISK ASSESSMENT:

Potentially Sensitive Receptors: The East Branch of Brandywine Creek is

located approximately 1,500 feet to the southsoutheast, and a small tributary to the branch is located approximately 2,000 feet east of the

site.

Closest Known Well: The Devereux Foundation has two onsite wells

referred to as No.2/MainWell/MW-2 and No.4/Springhouse/MW-4. Both wells were sampled immediately after the release for the 524.2 drinking water analysis – no detections have been reported. The wells are now sampled monthly – no detections have been reported. Seven additional wells are known to be located within a ½- mile radius of the site. These wells are located across local stream

barriers.

Vapor Intrusion Assessment: Soil gas sampling was conducted on 21 March

2013 and 31 May 2013. All analytes were below the Soil Gas MSCs except for benzene which was above its soil gas MSC in the

sample collected on 31 May 2013.



CHARACTERIZATION SUMMARY:

Geology: The site is underlain by Precambrain

Anorthosite. Soil boring and monitoring well installation activities at the site show varying

depths of sandy silt and weathered rock.

Depth to Groundwater in Monitoring Wells: 13.61 feet (MW-6) to 20.87 feet (MW-4)

Hydraulic Gradient During Reporting Period: 0.03 feet per foot to the east

Separate-Phase Hydrocarbons: SPH has been detected in monitoring well

MW-1.

Selected Soil Standard: Statewide Health Standard.

Historical Soil Quality Summary: Historical soil samples have been analyzed for

benzene, toluene, ethylbenzene, total xylenes, MTBE, isopropylbenzene, naphthalene, 1,2,4-TMB, and 1,3,5-TMB. Concentratrions of benzene, naphthalene, 1,2,4-TMB, and 1,3,5-TMB were detected above Statewide Health Standard (SHS) medium specific concentrations (MSCs) in multiple samples, all

other compounds were below SHS MSCs.

Soil Attainment Summary: Soil attainment sampling will be conducted at a

later date.

Selected Groundwater Standard: Statewide Health Standard.

Historical Groundwater Quality Summary: The SHS MSCs for benzene, 1,2,4-TMB, and

1,3,5-TMB have been exceeded in at least one

historical sample at the site.

Groundwater Attainment Summary: Will be performed upon completion of

characterization and/or remediation activities.

Geotechnical Data Analysis: Geotechnical data was collected on 13 March

2013 from MW-6 at the 27'-29' interval. Bulk density was 120.7 pounds per cubic foot (pcf); total porosity was 42.1; effective porosity was 27.4; and fractional organic carbon (foc) was

4.7 %.

Aquifer Testing: Aquifer testing activities yeilded hydraulic

conductivity (K) values ranging from 0.053 feet/day (pump test), and between 0.702 and

15.22 feet/day (slug tests).



SITE ACTIVITIES THIS REPORTING PERIOD:

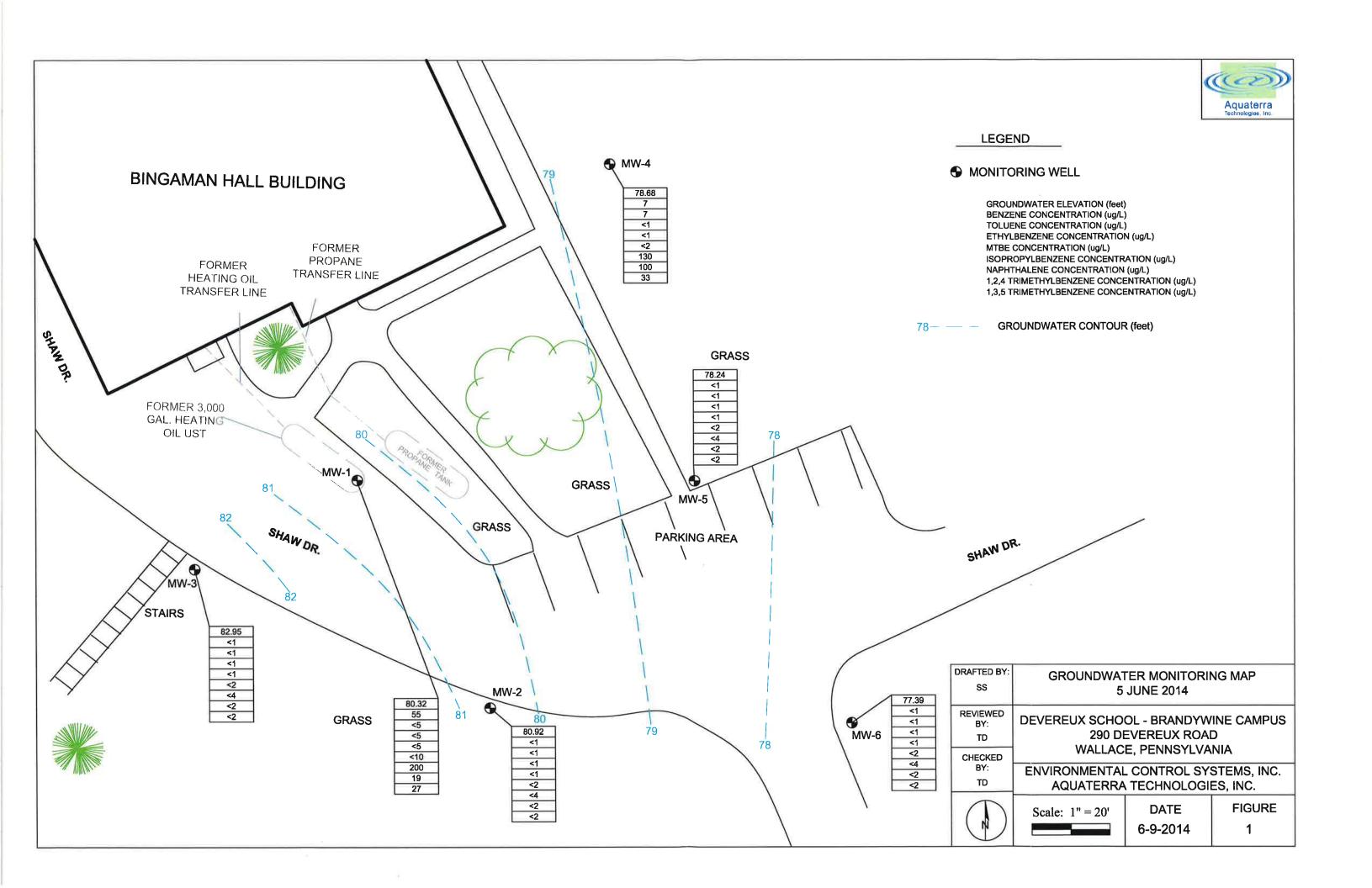
- Aquaterra conducted a site visits on 8 April 2014, 5 June 2014, and 30 June 2014 to extract product from MW-1. Product thickness is gauged in the well, if present, and the passive skimmer is removed and emptied into an onsite drum. Table 1 is a summary of product gauging and recovery data. During the second quarter of 2014, approximately 0.13 gallon of product was removed from the well.
- Liquid level data and groundwater quality samples were collected from all site monitoring wells on 5 June 2014. A map depicting groundwater elevation and groundwater analytical data is included as **Figure 1**. Historical groundwater elevation and analytical data is summarized in **Table 2** and the laboratory analytical report is included as **Appendix A**.
- Supply well sampling data were also provided to Aquaterra by Pure-Test Laboratory. Untreated influent samples from supply wells (referred to as MW-2 and MW-4) are collected on a monthly basis. The April, May, and June sample results are included as **Appendix B**.
- On 8 April 2014, and additional soil gas sample was collected. Historical soil gas analytical data is summarized in **Table 3** and the laboratory analytical report is included as **Appendix C**.

PROPOSED SITE ACTIVITIES:

- Maintain product removal efforts at MW-1 as needed.
- Maintain quarterly sampling and reporting program.

ATTACHMENTS:

| Figure 1 | Groundwater Monitoring Map (5 June 2014) |
|----------------------------------|---|
| Table 1 Table 2 Table 3 | Product Gauging and Recovery Data Groundwater Sample Data Summary Soil Gas Analytical Data Summary |
| Appendix A Appendix B Appendix C | Groundwater Analytical Laboratory Data Supply Well Analytical Laboratory Data Soil Gas Analytical Laboratory Data |





PRODUCT GAUGING AND RECOVERY DATA DEVEREUX SCHOOL GLENMOORE, PENNSYLVANIA TABLE 1

| | | | Pre-B | Pre-Bailing Measurements | ments | Post-B | Post-Bailing Measurements | ments | | | |
|------|-----------|----------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|-------------------|--------------------------|----------------------------|
| WELL | DATE | Days Elapsed b/w visits | DEPTH TO WATER (ft) | DEPTH TO SPH (ft) | SPH THICKNESS (ft) | DEPTH TO WATER (ft) | DEPTH TO SPH (ft) | SPH THICKNESS (ft) | RECOVERY (gal) | METHOD OF RECOVERY | SORBENT SOCKS PLACED |
| MW-1 | 11-Dec-12 | | 34.80 | 29.14 | 99'5 | * | | | 1 | 1 | % |
| | 19-Dec-12 | ij | 29.31 | 34.87 | 5,56 | 31,24 | : | 00.00 | 32 | Vac Truck | % |
| | 20-Dec-12 | : | 30,57 | 30,14 | 0.43 | ŧ | | | į | Gauged Only | Yes |
| | 9-Jan-13 | 21 | 29.85 | 28.11 | 1.74 | ŧ | ı | ı | ı | Gauged Only | No No |
| | 27-Feb-13 | 49 | 29,13 | 25.43 | 3,70 | 26,27 | 26.13 | 0.14 | 13 | Hand Bail | |
| * | | 6 | 26,02 | i, | 0.50 | ı | 1 | *80'0 | 2.5 | Hand Bail | |
| | 13-Mar-13 | 5 | 26.41 | 25.89 | 0,52 | ŧ |) | į | - | Hand Bail | Yes |
| | 22-Mar-13 | 6 | 25.78 | 25.37 | 0.41 | 25.75 | 25.54 | 0.21 | _ | Hand Bail | Yes |
| | 29-Mar-13 | 7 | 25.69 | 25.32 | 0,37 | 25.69 | 25.62 | 0.07 | 0.5 | Hand Bail | Yes |
| | 4-Apr-13 | 9 | 20,46 | 20.25 | 0,21 | 20,53 | 20.50 | 0.03 | 0,25 | Hand Bail | Yes |
| | 12-Apr-13 | 00 | 25.84 | 25.64 | 0,20 | 25.68 | 1 | sheen | 0,75 | Pump | Yes |
| | 19-Apr-13 | 7 | 25,86 | 25.83 | 0.03 | 25.80 | 3 | sheen | 0,25 | Pump | Yes |
| | 28-May-13 | 39 | 27.20 | 26.48 | 0,72 | 26.65 | | 3 | 1,5 | Pump | Yes |
| | 31-May-13 | 3 | 26.76 | ŧ | 00.00 | NP | NP | AN P | 1 | í | Yes |
| | 29-Aug-13 | 06 | 24,22 | 23.23 | 66'0 | 24.56 | ı | 1 | ю | Pump | Yes |
| | 5-Sep-13 | 7 | 23,36 | 23.13 | 0,23 | 23.41 | ŧ | T. | - | Pump | Yes |
| | 23-Sep-13 | 18 | 24.82 | 24,14 | 89'0 | 21,31 | | 1 | - | Pump | Yes |
| + | 1-Oct-13 | 00 | 25,20 | 24.72 | 0,48 | 1 | ŧ | () | 1 | ì | °N |
| | 8-Oct-13 | 7 | 25,61 | 25.60 | 0.01 | • | • | 1 | 0.5 | Skimmer | °N |
| | 25-Oct-13 | 17 | 25.75 | 25.65 | 0.10 | ΝN | ΣX | Νχ | 0.04 | Skimmer | No. |
| | 4-Nov-13 | 01 | 26.79 | 26.74 | 0.05 | 26.61 | ľ | ij | 0.2 | Skimmer | No |
| | 14-Nov-13 | 10 | 27.65 | 27.62 | 0,03 | 27.44 | • | 1 | ΣX | Skimmer | °Z |
| | 2-Jan-14 | 49 | 25,03 | 24.68 | 0,35 | 24.75 | (1 | 4 | 0.3 | Skimmer/bail | Š |
| | 22-Jan-14 | 20 | 23,38 | 23.02 | 0.36 | 4 | 1 | # | 0.1 | Skimmer | No |
| | 12-Feb-14 | 21 | 22.86 | : | 00.00 | ï | ٠ | ŧ | 0.4 | Skimmer | No |
| | 28-Feb-14 | 16 | 21.24 | ŧ | 00'0 | ŧ | ŧ. | t ő | 90'0 | Skimmer | % |
| | 18-Mar-14 | 18 | 20,10 | 18 | 00'0 | 1 | | 1 | 0,04 | Skimmer | Š |
| | 8-Apr-14 | 21 | 19,98 | 1 | 00.0 | 1 | • | į | 0.04 | Skimmer | 8 Z |
| | 5-Jun-14 | 58 | 19.97 | il. | 00'0 | ı | 1 | 3 | 0.05 | Skimmer | ž |
| | 30-Jun-14 | 25 | 19,52 | į | 00'0 | ı | 1 | ŧ | 0.04 | Skimmer | o _N |
| | | | | | | | Total S | Total SPH Recovery: | 59.52 | | |

Notes:

* On 8 March 2013, Interface probe was malfunctioning. Product thicknesses is based on visual observation using clear bailer.

+ On 1 October 2013, a passive bailer system was installed.

NP = No Product

Average LNAPL recharge is $\sim 0.5-2$ "/week.

NM = Not Measured
Passive Skimmer Capacity = 0.79 gallons

TABLE 2 GROUNDWATER SAMPLE DATA SUMMARY

DEVEREUX SCHOOL

((C< >)))
Aqualetra

GLENMOORE, PENNSYLVANIA



| MW-1 | Doto | Water | Product | Thickness | Flexation | Ronzono | Toluone | Euryl- | MTRE | - Isopropyi- henzene | olono | methyl- | henzene |
|-----------------------|---------------------|---|----------------|------------|----------------|------------------------|--------------------------------|----------|--------------|-------------------------|------------------|---------|---------------|
| NW-1 | 700 | feet | feet | feet | feet | ne/L | | ug/L | ug/L | J/Sri | ug/L | ug/L | μ <u>e</u> /L |
| | | | | | | Well Installe | ape | r 2012 | | | | | |
| Reference Elevation = | 11-Dec-12 | 34 80 | 29 14 | \$.66 | 68.36 | NS-P | | NS-P | NS-P | NS-P | NS-P | NS-P | NS-P |
| 98.29 | 21-Mar-13 | 25,78 | 25.37 | 0.41 | 72,86 | 9 | | 14 | \$ | % % | 100 | 210 | 69 |
| | 28-May-13 | 27,20 | 26.48 | 0,72 | 71.71 | Ŧ | 45 | 38 | Δ. | 20 | 140 | 280 | 90 1 |
| | 29-Aug-13 | 24.22 | 23.23 | 060 | 74.92 | 53 | 2 5 | 9'9 | ⊽ ₹ | 24 | 8 5 | ار د | 35 |
| | 14-Nov-13 | 20,120 | 79/7 | 0,03 | /0'0/ 01 8F | 7 3 | 9 2 | 38 | 07 (| 55 | 0/7 | 007 | 4 % |
| | 6 1.m 14 | 17.07 | | | 61.07 | 9 3 | e v | c Y | 7 | 2 5 | 902 | 9 | 3 2 |
| | 7-Jun-14 | 16,71 | | | 80.32 | 8 | 7 | 7 | 7 | OI/ | 904 | 2 | 17 |
| MW-2 | | | | | | Well Installe | Well Installed 5 November 2012 | r 2012 | | | | | |
| Reference Elevation = | 11-Dec-12 | 27.80 | | | 68 70 | 10 | 52 | 35 | ⊽ | - 12 | 73 | 140 | 41 |
| 96.5 | 21-Mar-13 | 24.49 | | | 72,01 | ⊽ | 8 | ⊽ | ⊽ | 7 | \$ | <2 | 0 |
| | 28-May-13 | 24.52 | | 00 | 71.98 | ~ | \\$\ | 7 | ⊽ | √ | ۵ | V | 7 |
| | 29-Aug-13 | 20.97 | ÷ | * | 75 53 | V | \$ | 7 | ⊽ | ⊽ | 7.4 | ~ | 7 |
| | 14-Nov-13 | 24.56 | ¥ | ž | 71.94 | ⊽ | \$ | ⊽ | ⊽ | ⊽ | \$ | 3,5 | 1,4 |
| | 18-Mar-14 | 17,28 | 1000 | | 79.22 | ⊽ | ⊽ | ⊽ | ⊽ | 27 | 2 | 7 | 7 |
| | 5-Jun-14 | 15.58 | 4 | | 80.92 | 7 | ⊽' | ⊽ | ⊽' | 4 | ij | 4 | 4 |
| 0 7707 | | | | | | W. H. L. C. L. | 1 | 1013 | | | | | |
| MW-3 | | 00.00 | Kanadananan | Accession | 4007 | Well Installed 5 Novem | од э Мочетре | per 2012 | | * | bearing the same | | |
| Reference Elevation = | 11-Dec-12 | 29.28 | *192 | ** | 15.05 | V 1 | √ ∜ | V | 7 \ | 7 (| J 4 | 7 5 | 7 5 |
| 11.66 | 21-Mar-13 | 25.20 | . 0 | . 10 | 73.63 | √ √ | 7 % | 7 7 | 7 7 | 7 ₹ | 7 8 | " √ | " √ |
| | 20-Aug-13 | 21.01 | | | 77.70 | 7 V | 7 🎖 | 7 \ | 7 √ | 7 🔻 | 7 🎖 | 7 🔽 | 7 🗸 |
| | 29-Aug-13 | 25.52 | | A A | 73.59 | 7 V |) ' \ | ₹ ∨ | ; √ | √ √ | \$ \$ | 7 7 | 7 |
| | 18-Mar-14 | 18.61 | . 1 | 100 | 80 50 | ⊽ | ∀ | ∇ | ∵ ⊽ | 4 | 4 | 77 | 7 |
| | 5-Jun-14 | 16,16 | 4 | | 82.95 | ⊽ | 7 | ~ | 7 | 4 | 2 | 8 | 7 |
| A contra | | | | | | Well Install | od 11 Moneh | 5100 | | | | | |
| 4-WW | 61.79% | 72.55 | | | 71.05 | well Instal. | Well Installed 11 March 2013 | 2013 | 7 | 2.0 | 3/ | 177 | 3E |
| Reference Elevation = | 28-Max-13 | 20.00 | v s | | 70.55 | 12 | 84 | 7 55 | 7 ⊽ | 4 7 | 2 2 | 3 2 | 3 4 |
| | 29-Aue-13 | 25.81 | | 9 | 73.74 | 1 22 | 58 | 99 | . △ | 21 | 130 | 180 | . 26 |
| | 14-Nov-13 | 29.20 | * | × | 70.35 | 4,2 | 11 | 7,3 | ⊽ | 4,0 | 44 | 50 | 20 |
| | 18-Mar-14 | 22.70 | ¥ | | 76.85 | 10 | 14 | 0.9 | ⊽ | 2.0 | 47 | 46 | 21 |
| | 5-Jun-14 | 20.87 | | | 78 68 | 7 | 7 | 7 | ▽ | ₽ | 130 | 100 | 33 |
| 2 7900 | | | | | | Well Installed | fod 12 Munch 2013 | 2013 | | | | | |
| Deference Flexetion = | 21-Mar-13 | 73.18 | | | 71.66 | | | | V | 0 | \$> | Q | 0 |
| 94.84 | 28-Mav-13 | 24.50 | : 1 | | 70.34 | ~ ~ | . ₹ | ~ | ⊽ | V | \$ | V | V |
| | 29-Aug-13 | 21.30 | 23 | | 73.54 | ~ | <> | ⊽ | ⊽ | ~ | \$ | 1.8 | V |
| | 14-Nov-13 | 24.74 | ĭi. | | 70.10 | ⊽ | S> | _ | ⊽ ' | \(\sqrt{} | \$\ | ⊽ ' | √ ' |
| | 18-Mar-14 | 18.26 | Œ. | ¥ | 76.58 | ⊽ . | √ : | √ - | ⊽ ¹ | 2> ! | 4 : | Ç, i | C, e |
| | 5-Jun-14 | 16.60 | | 12 | 78 24 | ⊽ | ⊽ | ⊽ | ⊽' | 0' | \$ | 0 | 0 |
| MW-6 | | | | | | Well Install | Well Installed 13 March 2013 | 2013 | | | | | |
| Reference Elevation = | 21-Mar-13 | 19.82 | | | 8 12 | | ۵ | ⊽ | ⊽ | <2 | \ | Q | 7 |
| 91.00 | 28-May-13 | 21.29 | W. | ¥. | 12 69 | <u></u> | ٧ | ⊽ | ⊽ | - | \$ | ∀ | V |
| | 29-Aug-13 | 17.87 | 70 | | 73 13 | ⊽ | ٧ | <u>~</u> | ⊽ | 7 | \$ | ⊽' | √ |
| | 14-Nov-13 | 21.57 | 1 | | 69 43 | ⊽ | V | ⊽ | ⊽ ' | 7 | ' \? | ⊽ ' | ⊽ ' |
| | 18-Mar-14 | 15.05 | Y. | ě | 75 95 | ⊽ ' | V : | ⊽ 7 | ⊽ 1 | Ç (| 7 7 | Q (| Q 9 |
| | 5-Jun-14 | 13.61 | ψ | | 11.39 | ⊽ | 7 | <u></u> | , | 7 | † | 7 | 7 |
| PAD | PADEP ACT 2 MSCs | 2 MSCs (Residential, Used Aquifer, TDS<2,500) | sed Aquifer, 7 | DS<2,500) | | so. | 1,000 | 00/ | 20 | 840 | 100 | 15 | 13 |
| | | | | | | | | | | | | | |
| PA | PA Defaults Residen | Residential Volatilization to Indoor Air Screen | on to Indoor A | vir Screen | | 3,500 | 490,000 | 27,000 | 380,000 | NOC | 25,000 | 8,600 | 7,200 |

PADEP ACT 2 MSCs = Medium Specific Concentrations (MSCs) for Organic Regulated Substances in Soil as found in Appendix A, Table 3b of the Pennsylvania Land Recycling Program (Pennsylvania Code, Title 2S, Chapter 2S0) Note. Values in bold executed standards
NS-P = Not Sampled, Product Present
Top of easing reference elevations are relative to an arbitrary benchmark of 100 feet.



TABLE 3 SOIL GAS ANALYTICAL DATA SUMMARY

DEVEREUX SCHOOL

GLENMOORE, PENNSYLVANIA

| Sampling Point | Date | Benzene (mg/m³) | Toluene (mg/m³) | Ethylbenzene (mg/m³) | MTBE (mg/m³) | Isopropyl Benzene (mg/m³) | Naphthalene (mg/m³) | 1,2,4-Trimethyl benzene (mg/m³) | 1,3,5-Trimethyl benzene (mg/m³) | Tracer: 1,1- Difluoroethane (ppbv) |
|----------------|---------------------------|--------------------|--------------------|-------------------------|--------------|---------------------------------|------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | 21-Mar-13 | 0 0023 J | 0.0067 | 0 0028 J | ND (0.00072) | ND (0.00098) | ND (0,0021) | 0.0020 J | (86000°0) QN | 140 |
| | 31-May-13 | 0,0038 | 0 0087 | 0.0022 | <0.00072 | 0,0011 | <0,0033 | 0 0024 | 86000 0> | NA |
| SC-01 | 5-Sep-14* | <1.3 | 7.5 | <1.7 | <1.4 | \$ | 9'9> | 2 | 7 | *NA |
| | 8-Apr-14 | 0.0074 | 0 0059 | 0.029 | <0,0036 | <0.0049 | 0.0067 | <0.0049 | <0.0049 | s |
| Residential So | Residential Soil Gas MSCs | 0.0027 | 0.56 | 0.019 | 0.081 | 0.54 | 0.0042 | 0.0083 | 0.0083 | NA |

Soil Gas MSCs based on 100x Attenuation Factor of the Indoor Air Criteria

NA - Not Applicable

ppbv - Parts Per Billion by volume

mg/m3 = miligrams per cubic meter

Bolded Values exceed Residential MSCs for Indoor Air Criteria

Note: tracer gas used during May sampling event; however, ESC Labs does not analyze for 1,1-difluoroethane

*Tracer gas used during September 2013 event was isopropyl alcohol, which was reported at elevated concentations which caused unusable data due to raised detection limits.



APPENDIX A

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Environmental Control Systems 950 Sussex Blvd. Broomall PA 19008

June 18, 2014

Project: Devereux

Submittal Date: 06/10/2014 Group Number: 1480744 PO Number: DEVEREUX State of Sample Origin: PA

| Client Sample Description | Lancaster Labs (LL) # |
|---------------------------|-----------------------|
| MW-1 Grab Groundwater | 7493720 |
| MW-2 Grab Groundwater | 7493721 |
| MW-3 Grab Groundwater | 7493722 |
| MW-4 Grab Groundwater | 7493723 |
| MW-5 Grab Groundwater | 7493724 |
| MW-6 Grab Groundwater | 7493725 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC

Environmental Control Systems

Attn: Barbara Lippmann

COPY TO

COPY TO

ELECTRONIC

SUN: Aquaterra Tech.

Attn: Tiffani Doerr

amek Carts

Respectfully Submitted,

Amek Carter Specialist

(717) 556-7252



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-1 Grab Groundwater

Devereux, PA COC: 352870 MW-1 LL Sample # WW 7493720 LL Group # 1480744 Account # 12363

Project Name: Devereux

Collected: 06/05/2014 14:05 by JS

Environmental Control Systems

950 Sussex Blvd. Broomall PA 19008

Submitted: 06/10/2014 15:27 Reported: 06/18/2014 14:53

DVRX1

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Dilution Factor | |
|------------|-----------------------------|------------|-----------------------|---|--------------------|--|
| GC/MS | Volatiles SW-846 | 8260B | ug/l | ug/l | | |
| 10943 | Benzene | 71-43-2 | 55 | 5 | 5 | |
| 10943 | Ethylbenzene | 100-41-4 | < 5 | 5 | 5 | |
| 10943 | Isopropylbenzene | 98-82-8 | < 10 | 10 | 5 | |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 5 | 5 | 5 | |
| 10943 | Naphthalene | 91-20-3 | 200 | 20 | 5 | |
| 10943 | Toluene | 108-88-3 | < 5 | 5 | 5 | |
| 10943 | 1,2,4-Trimethylbenzene | 95-63-6 | 19 | 10 | 5 | |
| 10943 | 1,3,5-Trimethylbenzene | 108-67-8 | 27 | 10 | 5 | |

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | Analysis Name | Method | Trial# | Batch# | Analysis | Analyst | Dilution |
|-------|----------------------|--------------|--------|-----------|------------------|-----------------|----------|
| No. | | | | | Date and Time | | Factor |
| 10943 | VOCs PA UST#2 | SW-846 8260B | 1 | D141632AA | 06/12/2014 16:27 | Daniel H Heller | 5 |
| | Fuel/Diesel+TMBs | | | | | | |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | D141632AA | 06/12/2014 16:27 | Daniel H Heller | 5 |



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-2 Grab Groundwater

Devereux, PA COC: 352870 MW-2

LL Sample # WW 7493721 LL Group # 1480744 Account # 12363

Project Name: Devereux

Collected: 06/05/2014 13:25 by JS

Environmental Control Systems

950 Sussex Blvd. Broomall PA 19008

Submitted: 06/10/2014 15:27 Reported: 06/18/2014 14:53

DVRX2

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Dilution Factor |
|------------|-----------------------------|------------|-----------------------|---|--------------------|
| GC/MS | Volatiles SW-846 | 8260B | ug/l | ug/l | |
| 10943 | Benzene | 71-43-2 | < 1 | 1 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | < 1 | 1 | 1 |
| 10943 | Isopropylbenzene | 98-82-8 | < 2 | 2 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 1 | 1 | 1 |
| 10943 | Naphthalene | 91-20-3 | < 4 | 4 | 1 |
| 10943 | Toluene | 108-88-3 | < 1 | 1 | 1 |
| 10943 | 1,2,4-Trimethylbenzene | 95-63-6 | < 2 | 2 | 1 |
| 10943 | 1,3,5-Trimethylbenzene | 108-67-8 | < 2 | 2 | 1 |

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | Analysis Name | Method | Trial# | Batch# | Analysis | Analyst | Dilution |
|-------|-----------------------------------|--------------|--------|-----------|------------------|-----------------|----------|
| No. | | | | | Date and Time | | Factor |
| 10943 | VOCs PA UST#2 Fuel/Diesel+TMBs | SW-846 8260B | 1 | D141632AA | 06/12/2014 16:50 | Daniel H Heller | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | D141632AA | 06/12/2014 16:50 | Daniel H Heller | 1 |



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-3 Grab Groundwater

Devereux, PA COC: 352870 MW-3 LL Sample # WW 7493722 LL Group # 1480744 Account # 12363

Project Name: Devereux

Collected: 06/05/2014 13:15 by JS

Environmental Control Systems

950 Sussex Blvd. Broomall PA 19008

Submitted: 06/10/2014 15:27 Reported: 06/18/2014 14:53

DVRX3

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Dilution Factor |
|------------|-----------------------------|------------|-----------------------|---|--------------------|
| GC/MS | Volatiles SW-846 | 8260B | ug/l | ug/l | |
| 10943 | Benzene | 71-43-2 | < 1 | 1 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | < 1 | 1 | 1 |
| 10943 | Isopropylbenzene | 98-82-8 | < 2 | 2 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 1 | 1 | 1 |
| 10943 | Naphthalene | 91-20-3 | < 4 | 4 | 1 |
| 10943 | Toluene | 108-88-3 | < 1 | 1 | 1 |
| 10943 | 1,2,4-Trimethylbenzene | 95-63-6 | < 2 | 2 | 1 |
| 10943 | 1,3,5-Trimethylbenzene | 108-67-8 | < 2 | 2 | 1 |

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|------------|-----------------------------------|--------------|--------|-----------|---------------------------|-----------------|--------------------|
| 10943 | VOCs PA UST#2 Fuel/Diesel+TMBs | SW-846 8260B | 1 | D141632AA | 06/12/2014 17:14 | Daniel H Heller | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | D141632AA | 06/12/2014 17:14 | Daniel H Heller | 1 |



Analysis Report

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Sample Description: MW-4 Grab Groundwater

Devereux, PA COC: 352870 MW-4 LL Sample # WW 7493723 LL Group # 1480744 Account # 12363

Project Name: Devereux

Collected: 06/05/2014 13:55 by JS Env

Environmental Control Systems

Submitted: 06/10/2014 15:27 Reported: 06/18/2014 14:53 950 Sussex Blvd. Broomall PA 19008

DVRX4

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Dilution Factor |
|------------|-----------------------------|------------|-----------------------|---|--------------------|
| GC/MS | Volatiles SW-846 | 8260B | ug/l | ug/l | |
| 10943 | Benzene | 71-43-2 | 7 | 1 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | < 1 | 1 | 1 |
| 10943 | Isopropylbenzene | 98-82-8 | < 2 | 2 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 1 | 1 | 1 |
| 10943 | Naphthalene | 91-20-3 | 130 | 4 | 1 |
| 10943 | Toluene | 108-88-3 | 7 | 1 | 1 |
| 10943 | 1,2,4-Trimethylbenzene | 95-63-6 | 100 | 2 | 1 |
| 10943 | 1,3,5-Trimethylbenzene | 108-67-8 | 33 | 2 | 1 |

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | Analysis Name | Method | Trial# | Batch# | Analysis | Analyst | Dilution |
|-------|-----------------------------------|--------------|--------|-----------|------------------|-----------------|----------|
| No. | | | | | Date and Time | | Factor |
| 10943 | VOCs PA UST#2 Fuel/Diesel+TMBs | SW-846 8260B | 1 | D141632AA | 06/12/2014 17:37 | Daniel H Heller | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | D141632AA | 06/12/2014 17:37 | Daniel H Heller | 1 |



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-5 Grab Groundwater

Devereux, PA COC: 352870 MW-5 LL Sample # WW 7493724 LL Group # 1480744 Account # 12363

Project Name: Devereux

Collected: 06/05/2014 13:35 by JS

Environmental Control Systems

950 Sussex Blvd. Broomall PA 19008

Submitted: 06/10/2014 15:27 Reported: 06/18/2014 14:53

DVRX5

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Dilution Factor |
|------------|-----------------------------|------------|-----------------------|---|--------------------|
| GC/MS | Volatiles SW-846 | 8260B | ug/l | ug/l | |
| 10943 | Benzene | 71-43-2 | < 1 | 1 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | < 1 | 1 | 1 |
| 10943 | Isopropylbenzene | 98-82-8 | < 2 | 2 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 1 | 1 | 1 |
| 10943 | Naphthalene | 91-20-3 | < 4 | 4 | 1 |
| 10943 | Toluene | 108-88-3 | < 1 | 1 | 1 |
| 10943 | 1,2,4-Trimethylbenzene | 95-63-6 | < 2 | 2 | 1 |
| 10943 | 1,3,5-Trimethylbenzene | 108-67-8 | < 2 | 2 | 1 |

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|------------|-----------------------------------|--------------|--------|-----------|---------------------------|-----------------|--------------------|
| 10943 | VOCs PA UST#2 Fuel/Diesel+TMBs | SW-846 8260B | 1 | Z141631AA | 06/12/2014 20:34 | Daniel H Heller | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | Z141631AA | 06/12/2014 20:34 | Daniel H Heller | 1 |



Analysis Report

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Sample Description: MW-6 Grab Groundwater

Devereux, PA COC: 352870 MW-6

LL Sample # WW 7493725 LL Group # 1480744 Account # 12363

Project Name: Devereux

Collected: 06/05/2014 13:45 by JS

Environmental Control Systems

950 Sussex Blvd. Broomall PA 19008

Submitted: 06/10/2014 15:27 Reported: 06/18/2014 14:53

DVRX6

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Limit of Quantitation | Dilution Factor |
|------------|-----------------------------|------------|-----------------------|---|--------------------|
| GC/MS | Volatiles SW-846 | 8260B | ug/l | ug/l | |
| 10943 | Benzene | 71-43-2 | < 1 | 1 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | < 1 | 1 | 1 |
| 10943 | Isopropylbenzene | 98-82-8 | < 2 | 2 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | < 1 | 1 | 1 |
| 10943 | Naphthalene | 91-20-3 | < 4 | 4 | 1 |
| 10943 | Toluene | 108-88-3 | < 1 | 1 | 1 |
| 10943 | 1,2,4-Trimethylbenzene | 95-63-6 | < 2 | 2 | 1 |
| 10943 | 1,3,5-Trimethylbenzene | 108-67-8 | < 2 | 2 | 1 |
| | | | | | |

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15. Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|------------|----------------------|--------------|--------|-----------|---------------------------|-----------------|--------------------|
| 10943 | VOCs PA UST#2 | SW-846 8260B | 1 | Z141631AA | 06/12/2014 20:59 | Daniel H Heller | 1 |
| | Fuel/Diesel+TMBs | | | | | | |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | Z141631AA | 06/12/2014 20:59 | Daniel H Heller | 1 |

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Page 1 of 2

Quality Control Summary

Client Name: Environmental Control Systems Group Number: 1480744

Reported: 06/18/14 at 02:53 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

| Analysis Name | Blank <u>Result</u> | Blank LOO | Report <u>Units</u> | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|-----------------------------|------------------------|--------------|------------------------|-------------|--------------|--------------------|-----|---------|
| Batch number: D141632AA | Sample numbe | er(s): 749 | 3720-7493 | 723 | | | | |
| Benzene | < 1 | 1 | ug/l | 87 | 88 | 78-120 | 1 | 30 |
| Ethylbenzene | < 1 | 1. | ug/l | 91 | 90 | 79-120 | 0 | 30 |
| Isopropylbenzene | < 2 | 2. | ug/l | 94 | 94 | 77-120 | 0 | 30 |
| Methyl Tertiary Butyl Ether | < 1 | 1. | ug/l | 87 | 89 | 75-120 | 3 | 30 |
| Naphthalene | < 4 | 4. | ug/l | 93 | 82 | 47-126 | 13 | 30 |
| Toluene | < 1 | 1. | ug/1 | 90 | 90 | 80-120 | 0 | 30 |
| 1,2,4-Trimethylbenzene | < 2 | 2. | ug/1 | 95 | 87 | 74-120 | 8 | 30 |
| 1,3,5-Trimethylbenzene | < 2 | 2. | ug/l | 94 | 88 | 74-120 | 7 | 30 |
| Batch number: Z141631AA | Sample numbe | er(s): 749 | 3724-7493 | 725 | | | | |
| Benzene | < 1 | 1.00 | ug/l | 80 | 80 | 78-120 | 1 | 30 |
| Ethylbenzene | < 1 | 1. | ug/l | 88 | 88 | 79-120 | 0 | 30 |
| Isopropylbenzene | < 2 | 2. | ug/l | 93 | 94 | 77-120 | 1 | 30 |
| Methyl Tertiary Butyl Ether | < 1 | 1.0 | ug/l | 90 | 90 | 75-120 | 0 | 30 |
| Naphthalene | < 4 | 4. | ug/l | 83 | 84 | 47-126 | 2 | 30 |
| Toluene | < 1 | 1 | ug/l | 86 | 86 | 80-120 | 0 | 30 |
| 1,2,4-Trimethylbenzene | < 2 | 2. | ug/l | 86 | 90 | 74-120 | 4 | 30 |
| 1,3,5-Trimethylbenzene | < 2 | 2. | ug/l | 88 | 88 | 74-120 | 1 | 30 |

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST BTEX, MTBE in Water Batch number: D141632AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene | |
|---------|----------------------|-----------------------|------------|----------------------|--|
| 7493720 | 93 | 95 | 98 | 97 | |
| 7493721 | 97 | 100 | 98 | 98 | |
| 7493722 | 93 | 95 | 98 | 97 | |
| 7493723 | 98 | 96 | 93 | 101 | |
| Blank | 92 | 94 | 99 | 98 | |
| LCS | 93 | 95 | 98 | 100 | |
| LCSD | 92 | 93 | 99 | 100 | |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 | |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Analysis Report

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Page 2 of 2

Quality Control Summary

Client Name: Environmental Control Systems

Group Number: 1480744

Reported: 06/18/14 at 02:53 PM

Surrogate Quality Control

Analysis Name: UST BTEX, MTBE in Water

| I III C I J | JID HOME | . OUT DIDIL | 11111 | | HUCCUL | |
|-------------|----------|-------------|-------|-------|--------|--|
| Batch | number: | Z141631AA | | | | |
| | Dile | | 4.0 | Di-LI | | |

| Daton na | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene | |
|----------|----------------------|-----------------------|------------|----------------------|--|
| 7493724 | 108 | 101 | 97 | 94 | |
| 7493725 | 108 | 102 | 97 | 94 | |
| Blank | 107 | 101 | 98 | 99 | |
| LCS | 106 | 103 | 98 | 101 | |
| LCSD | 104 | 100 | 97 | 101 | |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 | |

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

12363 Environmental Analysis Request/Chain of Custody

| Client Information | Temperature upon receipt ♥ % °C | Temperatur | No olume.) | Site-Specific QC (MS/MSD/Dup)? Yes No (If yes, indicate QC sample and submit triplicate sample volume.) | D/Dup)′ mit triplic | /IS/MS | Site-Specific QC (MS/MSD/Dup)? yes, indicate QC sample and submit triplica | te-Spec s, indicate | Sit (If yes | 70 | CT RCP | MA MCP | Type IV (CLP SOW) |
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| Client information Analysis Requested For Lab Use on Preservation Codes For Lab Use | | | 1527 | 10.17 | | 1 | bre to | 1 | | | | required) | Data Package Options (circle if |
| Client Information Analysis Requested Preservation Codes Preser | Date | Received by | Time | | 0.35 | 1 | | Ъу | linquished | Z) | | | -mail address: |
| Client Information Analysis Requested For Lab Use on Preservation For Lab Use on Preservation Codes For Lab Use On Pre | A C.10.14 | Rebeived by | Time | Date | 3 | 7 | 10 | 1 2 | ellinquished | 70 | | | ate results are needed: |
| Client Information Analysis Requested For Lab Use Only Preservation Codes For Lab Use Only Preservati | J. C. Ja (.) | Agricultura Suns | 1530 | (/5//t/ | More | la di | ale C | Scale | rcca | k vz | | and surcharge.) | (Rush TAT is subject to laboratory approval |
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| ent Information (4) Matrix (5) Analysis Requested Preservation Codes | SCR#: //5/ | | | | П | | ' <u>_</u> | <u> </u> | | | 5 | 2 | ca lachnologie |
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| | For Lab Use On | Requested | Analysis | | 6 | Ц | Matrix | 0 | | | | nformation | Client I |
| | | | onlv | nental use | Environ | ratories | aster Labo | ns Lanc | or Eurofi | TI | > | 12363 | eurofins OA- |

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Lancaster Laboratories

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| RL | Reporting Limit | BMQL | Below Minimum Quantitation Level |
|----------|-----------------------|----------|----------------------------------|
| N.D. | none detected | MPN | Most Probable Number |
| TNTC | Too Numerous To Count | CP Units | cobalt-chloroplatinate units |
| IU | International Units | NTU | nephelometric turbidity units |
| umhos/cm | micromhos/cm | ng | nanogram(s) |
| С | degrees Celsius | F | degrees Fahrenheit |
| meq | milliequivalents | lb. | pound(s) |
| g | gram(s) | kg | kilogram(s) |
| µg | microgram(s) | mg | milligram(s) |
| mL | milliliter(s) | L | liter(s) |
| m3 | cubic meter(s) | μL | microliter(s) |
| | | pa/L | picogram/liter |

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C - result confirmed by reanalysis.

J - estimated value - The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

| | Organic Qualifiers | | Inorganic Qualifiers |
|-----|--|---|--|
| Α | TIC is a possible aldol-condensation product | В | Value is <crdl, but="" th="" ≥idl<=""></crdl,> |
| В | Analyte was also detected in the blank | E | Estimated due to interference |
| С | Pesticide result confirmed by GC/MS | М | Duplicate injection precision not met |
| D | Compound quantitated on a diluted sample | N | Spike sample not within control limits |
| Е | Concentration exceeds the calibration range of | S | Method of standard additions (MSA) used |
| | the instrument | | for calculation |
| N | Presumptive evidence of a compound (TICs only) | U | Compound was not detected |
| Р | Concentration difference between primary and | W | Post digestion spike out of control limits |
| | confirmation columns >25% | * | Duplicate analysis not within control limits |
| U | Compound was not detected | + | Correlation coefficient for MSA < 0.995 |
| Y,Z | Defined in case narrative | | |

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



APPENDIX B



Mail to: Devereux Foundation CBHS 160 Devereux Road Glenmoore PA 19343-0069 Lab Number: 208914 Date Reported: 4/21/2014 Fax Number: 610-942-5988 Public Water Supplier ID: 1150037

| | Maximum | | Maximum | Anal | ysis | | | | |
|-----------------------------------|------------------------|-----------|-------------------|------------|---------|---------|-----------|-------------|-------|
| Analyte | Result | Pass/Fail | Contaminant Level | Date | Time | Analyst | Method | Reporting I | Limit |
| 208914-01 Sampled: 4/2/2014 14:30 | Sampler: Gerald Weaver | Source: N | W- 2 Influent Raw | Devereux B | eneto C | enter | | | |
| 1,2,4-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,3,5-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 4/4/2014 | 18:31 | gxf | EPA 524,2 | 0.0005 | 1 |
| Isopropylbenzene | <0.0005 mg/L | N/A | N/A | 4/4/2014 | 18:31 | gxf | EPA 524,2 | 0.0005 | 1 |
| Methyl tertiary-Butyl Ether | <0.001 mg/L | N/A | N/A | 4/4/2014 | 18:31 | gxf | EPA524.2 | 0.001 | 1 |
| Naphthalene | <0.0005 mg/l | N/A | N/A | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Volatile Organic Chemicals | | N/A | N/A | | | | EPA 524.2 | | 1 |
| 1,1,1 - Trichloroethane | <0.0005 mg/L | Pass | 0.2 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| 1,1,2 - Trichloroethane | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524,2 | 0.0005 | 1 |
| 1,1-Dichloroethylene | <0.0005 mg/L | Pass | 0.007 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,2,4, - Trichlorobenzene | <0.0005 mg/L | Pass | 0.07 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,2-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,2-Dichloroethane | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524,2 | 0.0005 | 1 |
| 1,2 - Dichloropropane | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,4-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Benzene | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Carbon Tetrachloride | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Chlorobenzene | <0.0005 mg/L | Pass | 0.1 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| cis-1,2-Dichloroethylene | <0.0005 mg/L | Pass | 0,07 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Ethylbenzene | <0.0005 mg/L | Pass | 0.7 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Methylene Chloride | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Styrene | <0.0005 mg/L | Pass | 0.1 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Tetrachloroethylene | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Toluene | <0.0005 mg/L | Pass | 1.0 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| trans1,2-Dichloroethylene | <0.0005 mg/L | Pass | 0.1 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Trichloroethylene | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Vinyl Chloride | <0.0005 mg/L | Pass | 0.002 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Xylenes, Total | <0.0005 mg/L | Pass | 10.0 mg/L | 4/4/2014 | 18:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| 208914-02 Sampled: 4/2/2014 14:30 | Sampler: Gerald Weaver | Source: M | W- 4 Influent Raw | Devereux B | eneto C | enter | | | _ |
| 1,2,4-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,3,5-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Isopropylbenzene | <0.0005 mg/L | N/A | N/A | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Methyl tertiary-Butyl Ether | <0.001 mg/L | N/A | N/A | 4/4/2014 | 19:06 | gxf | EPA524.2 | 0.001 | 1 |
| Naphthalene | <0.0005 mg/l | N/A | N/A | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Volatile Organic Chemicals | | N/A | N/A | | | | EPA 524.2 | | 1 |
| 1,1,1 - Trichloroethane | <0.0005 mg/L | Pass | 0.2 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0,0005 | 1 |
| 1,1,2 - Trichloroethane | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,1-Dichloroethylene | <0.0005 mg/L | Pass | 0.007 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,2,4, - Trichlorobenzene | <0.0005 mg/L | Pass | 0.07 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |



Mail to: Devereux Foundation CBHS 160 Devereux Road Glenmoore PA 19343-0069 Lab Number: 208914 Date Reported: 4/21/2014 Fax Number: 610-942-5988

Public Water Supplier ID: 1150037

| | | | Maximum | Ana | ysis | | | | |
|---------------------------|--------------|-----------|-------------------|----------|-------|---------|-----------|-------------|------|
| Analyte | Result | Pass/Fail | Contaminant Level | Date | Time | Analyst | Method | Reporting L | imit |
| 1,2-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,2-Dichloroethane | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,2 - Dichloropropane | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,4-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Benzene | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524,2 | 0.0005 | 1 |
| Carbon Tetrachloride | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Chlorobenzene | <0.0005 mg/L | Pass | 0.1 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| cis-1,2-Dichloroethylene | <0.0005 mg/L | Pass | 0.07 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524,2 | 0.0005 | 1 |
| Ethylbenzene | <0.0005 mg/L | Pass | 0.7 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524,2 | 0,0005 | 1 |
| Methylene Chloride | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Styrene | <0.0005 mg/L | Pass | 0.1 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Tetrachloroethylene | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Toluene | <0.0005 mg/L | Pass | 1.0 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| trans1,2-Dichloroethylene | <0.0005 mg/L | Pass | 0.1 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Trichloroethylene | <0.0005 mg/L | Pass | 0.005 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Vinyl Chloride | <0.0005 mg/L | Pass | 0.002 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Xylenes, Total | <0.0005 mg/L | Pass | 10.0 mg/L | 4/4/2014 | 19:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| | | | | | | | | | |

1 Analysis subcontracted to lab #06-003

This sample data will be forwarded to appropriate agencies to comply with monitoring requirements.



The Maximum Contaminant Level (MCL) is the maximum permissible level of a contaminant in water per the SDWA, Some parameters have no established MCl Pure-Test is certified #38-00338 by the Pennsylvania Department of Environmental Protection, #345 by the Maryland Department of the Environment,

MDE

Report Approved By:

Andrew T Heist, Lab Technician



Mail to: Devereux Foundation CBHS 160 Devereux Road Glenmoore PA 19343-0069 Lab Number: 209677 Date Reported: 5/22/2014 Fax Number: 610-942-5988

Public Water Supplier ID: 1150037

| Ana Ana | | ysis | | | | | | | |
|-----------------------------------|------------------------|-----------|------------------------------|------------|----------|---------|-----------|-------------|------|
| Analyte | Result | Pass/Fail | Maximum Contaminant Level | Date | Time | Analyst | Method | Reporting L | imit |
| 209677-01 Sampled: 5/1/2014 10:00 | Sampler: Gerald Weaver | Source: N | W- 2 Influent Raw | Devereux B | eneto C | enter | | | |
| 1,2,4-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| 1,3,5-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| Isopropylbenzene | <0.0005 mg/L | N/A | N/A | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| Methyl tertiary-Butyl Ether | <0.001 mg/L | N/A | N/A | 5/6/2014 | 19:31 | gxf | EPA524_2 | 0,001 | 1 |
| Naphthalene | <0.0005 mg/l | N/A | N/A | 5/6/2014 | 19:31 | gxf | EPA 524,2 | 0,0005 | 1 |
| Volatile Organic Chemicals | | N/A | N/A | | | | EPA 524.2 | | 1 |
| 1,1,1 - Trichloroethane | <0.0005 mg/L | Pass | 0.2 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| 1,1,2 - Trichloroethane | <0.0005 mg/L | Pass | 0,005 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524,2 | 0.0005 | 1 |
| 1,1-Dichloroethylene | <0.0005 mg/L | Pass | 0.007 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| 1,2,4, - Trichlorobenzene | <0.0005 mg/L | Pass | 0.07 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| 1,2-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| 1,2-Dichloroethane | <0.0005 mg/L | Pass | 0,005 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| 1,2 - Dichloropropane | <0.0005 mg/L | Pass | 0,005 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| 1,4-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524,2 | 0.0005 | 1 |
| Benzene | <0.0005 mg/L | Pass | 0.005 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Carbon Tetrachloride | <0.0005 mg/L | Pass | 0.005 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Chlorobenzene | <0.0005 mg/L | Pass | 0.1 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| cis-1,2-Dichloroethylene | <0.0005 mg/L | Pass | 0.07 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| Ethylbenzene | <0.0005 mg/L | Pass | 0.7 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Methylene Chloride | <0.0005 mg/L | Pass | 0.005 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524,2 | 0,0005 | 1 |
| Styrene | <0.0005 mg/L | Pass | 0.1 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Tetrachloroethylene | <0.0005 mg/L | Pass | 0,005 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Toluene | <0.0005 mg/L | Pass | 1.0 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| trans1,2-Dichloroethylene | <0.0005 mg/L | Pass | 0.1 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| Trichloroethylene | <0.0005 mg/L | Pass | 0.005 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0.0005 | 1 |
| Vinyl Chloride | <0.0005 mg/L | Pass | 0.002 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| Xylenes, Total | <0.0005 mg/L | Pass | 10.0 mg/L | 5/6/2014 | 19:31 | gxf | EPA 524.2 | 0,0005 | 1 |
| 209677-02 Sampled: 5/1/2014 10:00 | Sampler: Gerald Weaver | Source: N | NW- 4 Influent Raw | Devereux E | Beneto (| Center | | | _ |
| 1,2,4-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,3,5-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Isopropylbenzene | <0.0005 mg/L | N/A | N/A | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Methyl tertiary-Butyl Ether | <0.001 mg/L | N/A | N/A | 5/6/2014 | 20:06 | gxf | EPA524.2 | 0,001 | 1 |
| Naphthalene | <0,0005 mg/l | N/A | N/A | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| Volatile Organic Chemicals | | N/A | N/A | | | | EPA 524.2 | | 1 |
| 1,1,1 - Trichloroethane | <0,0005 mg/L | Pass | 0.2 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,1,2 - Trichloroethane | <0.0005 mg/L | Pass | 0,005 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,1-Dichloroethylene | <0.0005 mg/L | Pass | 0.007 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 |
| 1,2,4, - Trichlorobenzene | <0.0005 mg/L | Pass | 0,07 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524,2 | 0.0005 | 1 |



Mail to: Devereux Foundation CBHS 160 Devereux Road Glenmoore PA 19343-0069 Lab Number: 209677 Date Reported: 5/22/2014 Fax Number: 610-942-5988

Public Water Supplier ID: 1150037

| | | | Maximum | Anal | ysis | | | | | |
|---------------------------|--------------|-----------|-------------------|-----------|-------|---------|-----------|-----------------|---|--|
| Analyte | Result | Pass/Fail | Contaminant Level | Date Time | | Analyst | Method | Reporting Limit | | |
| 1,2-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 | |
| 1,2-Dichloroethane | <0.0005 mg/L | Pass | 0,005 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0,0005 | 1 | |
| 1,2 - Dichloropropane | <0,0005 mg/L | Pass | 0,005 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 | |
| 1,4-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0,0005 | 1 | |
| Benzene | <0.0005 mg/L | Pass | 0.005 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 | |
| Carbon Tetrachloride | <0.0005 mg/L | Pass | 0.005 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524_2 | 0,0005 | 1 | |
| Chlorobenzene | <0,0005 mg/L | Pass | 0.1 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0,0005 | 1 | |
| cis-1,2-Dichloroethylene | <0.0005 mg/L | Pass | 0.07 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 | |
| Ethylbenzene | <0.0005 mg/L | Pass | 0.7 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0,0005 | 1 | |
| Methylene Chloride | <0.0005 mg/L | Pass | 0.005 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 | |
| Styrene | <0.0005 mg/L | Pass | 0.1 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0,0005 | 1 | |
| Tetrachloroethylene | <0.0005 mg/L | Pass | 0,005 mg/L | 5/6/2014 | 20:00 | gxf | EPA 524.2 | 0.0005 | 1 | |
| Toluene | <0.0005 mg/L | Pass | 1.0 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 | |
| trans1,2-Dichloroethylene | <0,0005 mg/L | Pass | 0.1 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0,0005 | 1 | |
| Trichloroethylene | <0.0005 mg/L | Pass | 0.005 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0.0005 | 1 | |
| Vinyl Chloride | <0.0005 mg/L | Pass | 0.002 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0,0005 | 1 | |
| Xylenes, Total | <0.0005 mg/L | Pass | 10.0 mg/L | 5/6/2014 | 20:06 | gxf | EPA 524.2 | 0,0005 | 1 | |

¹ Analysis subcontracted to lab #06-003

This sample data will be forwarded to appropriate agencies to comply with monitoring requirements.



"he Maximum Contaminant Level (MCL) is the maximum permissible level of a contaminant in water per the SDWA, Some parameters have no established MC Pure-Test is certified #38-00338 by the Pennsylvania Department of Environmental Protection, #345 by the Maryland Department of the Environment.

MDE

Report Approved By:

Andrew T Heist, Lab Technician

and I Blit



Mail to: Devereux Foundation CBHS 160 Devereux Road Glenmoore PA 19343-0069 Lab Number: 210755 Date Reported: 6/24/2014 Fax Number: 610-942-5988

Public Water Supplier ID: 1150037

| | | | Maximum | Analysis | | | | |
|-----------------------------------|------------------------|-----------|------------------------------|-----------------|---------|-----------|-------------|-------|
| Analyte | Result | Pass/Fail | Maximum Contaminant Level | Date Time | Analyst | Method | Reporting L | .imit |
| 210755-01 Sampled: 6/6/2014 11:10 | Sampler: Gerald Weaver | Source: N | NW- 2 Influent Raw | Devereux Beneto | Center | | | |
| 1,2,4-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 6/10/2014 | sub | EPA 524,2 | 0,0005 | 1 |
| 1,3,5-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 6/10/2014 | sub | EPA 524.2 | 0.0005 | 1 |
| Isopropylbenzene | <0.0005 mg/L | N/A | N/A | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| Methyl tertiary-Butyl Ether | <0.001 mg/L | N/A | N/A | 6/10/2014 | sub | EPA524,2 | 0,001 | 1 |
| Naphthalene | <0.0005 mg/l | N/A | N/A | 6/10/2014 | sub | EPA 524.2 | 0.0005 | 1 |
| Volatile Organic Chemicals | | N/A | N/A | | | EPA 524.2 | | 1 |
| 1,1,1 - Trichloroethane | <0.0005 mg/L | Pass | 0.2 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| 1,1,2 - Trichloroethane | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| 1,1-Dichloroethylene | <0.0005 mg/L | Pass | 0.007 mg/L | 6/10/2014 | sub | EPA 524.2 | 0.0005 | 1 |
| 1,2,4, - Trichlorobenzene | <0.0005 mg/L | Pass | 0.07 mg/L | 6/10/2014 | sub | EPA 524,2 | 0,0005 | 1 |
| 1,2-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| 1,2-Dichloroethane | <0,0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| 1,2 - Dichloropropane | <0.0005 mg/L | Pass | 0,005 mg/L | 6/10/2014 | sub | EPA 524,2 | 0,0005 | 1 |
| 1,4-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| Benzene | <0,0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| Carbon Tetrachloride | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | sub | EPA 524,2 | 0.0005 | 1 |
| Chlorobenzene | <0.0005 mg/L | Pass | 0.1 mg/L | 6/10/2014 | sub | EPA 524.2 | 0.0005 | 1 |
| cis-1,2-Dichloroethylene | <0,0005 mg/L | Pass | 0.07 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| Ethylbenzene | <0.0005 mg/L | Pass | 0,7 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| Methylene Chloride | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| Styrene | <0.0005 mg/L | Pass | 0.1 mg/L | 6/10/2014 | sub | EPA 524.2 | 0.0005 | 1 |
| Tetrachloroethylene | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| Toluene | <0.0005 mg/L | Pass | 1.0 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| trans1,2-Dichloroethylene | <0.0005 mg/L | Pass | 0.1 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| Trichloroethylene | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | sub | EPA 524.2 | 0.0005 | 1 |
| Vinyl Chloride | <0.0005 mg/L | Pass | 0.002 mg/L | 6/10/2014 | sub | EPA 524.2 | 0.0005 | 1 |
| Xylenes, Total | <0.0005 mg/L | Pass | 10.0 mg/L | 6/10/2014 | sub | EPA 524.2 | 0_0005 | 1 |
| 210755-02 Sampled: 6/6/2014 11:15 | Sampler: Gerald Weaver | Source: A | MW- 4 Influent Raw | Devereux Beneto | Center | | | - |
| 1,2,4-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| 1,3,5-Trimethylbenzene | <0.0005 mg/L | N/A | N/A | 6/10/2014 | sub | EPA 524.2 | 0.0005 | 1 |
| Isopropylbenzene | <0.0005 mg/L | N/A | N/A | 6/10/2014 | sub | EPA 524 2 | 0.0005 | 1 |
| Methyl tertiary-Butyl Ether | <0.001 mg/L | N/A | N/A | 6/10/2014 | sub | EPA524.2 | 0.001 | 1 |
| Naphthalene | <0,0005 mg/l | N/A | N/A | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| Volatile Organic Chemicals | | N/A | N/A | | | EPA 524.2 | | 1 |
| 1,1,1 - Trichloroethane | <0.0005 mg/L | Pass | 0.2 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| 1,1,2 - Trichloroethane | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | sub | EPA 524.2 | 0,0005 | 1 |
| 1,1-Dichloroethylene | <0.0005 mg/L | Pass | 0.007 mg/L | 6/10/2014 | sub | EPA 524.2 | 0.0005 | 1 |
| 1,2,4, - Trichlorobenzene | <0.0005 mg/L | Pass | 0.07 mg/L | 6/10/2014 | sub | EPA 524.2 | 0.0005 | 1 |



Mail to: Devereux Foundation CBHS 160 Devereux Road Glenmoore PA 19343-0069 Lab Number: 210755 Date Reported: 6/24/2014 Fax Number: 610-942-5988

Public Water Supplier ID: 1150037

| | | | Maximum | Analy | /sis | | | | |
|-----------------------------------|------------------------|-----------|----------------------|-----------|---------|----------|-----------|-------------|------|
| Analyte | Result | Pass/Fail | | | Time | Analyst | Method | Reporting L | imit |
| 1,2-Dichlorobenzene | <0.0005 mg/L | Pass | 0.6 mg/L | 6/10/2014 | | sub | EPA 524,2 | 0,0005 | 1 |
| 1,2-Dichloroethane | <0,0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | | sub | EPA 524_2 | 0,0005 | 1 |
| 1,2 - Dichloropropane | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0.0005 | 1 |
| 1,4-Dichlorobenzene | <0.0005 mg/L | Pass | 0,6 mg/L | 6/10/2014 | | sub | EPA 524,2 | 0,0005 | 1 |
| Benzene | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0,0005 | 1 |
| Carbon Tetrachloride | <0,0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0,0005 | 1 |
| Chlorobenzene | <0.0005 mg/L | Pass | 0,1 mg/L | 6/10/2014 | | sub | EPA 524,2 | 0,0005 | 1 |
| cis-1,2-Dichloroethylene | <0.0005 mg/L | Pass | 0,07 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0.0005 | 1 |
| Ethylbenzene | <0.0005 mg/L | Pass | 0.7 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0.0005 | 1 |
| Methylene Chloride | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0,0005 | 1 |
| Styrene | <0.0005 mg/L | Pass | 0.1 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0,0005 | 1 |
| Tetrachloroethylene | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0,0005 | 1 |
| Toluene | <0.0005 mg/L | Pass | 1.0 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0,0005 | 1 |
| trans1,2-Dichloroethylene | <0.0005 mg/L | Pass | 0.1 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0.0005 | 1 |
| Trichloroethylene | <0.0005 mg/L | Pass | 0.005 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0.0005 | 1 |
| Vinyl Chloride | <0.0005 mg/L | Pass | 0.002 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0,0005 | 1 |
| Xylenes, Total | <0.0005 mg/L | Pass | 10.0 mg/L | 6/10/2014 | | sub | EPA 524.2 | 0.0005 | 1 |
| 210755-03 Sampled: 6/6/2014 11:45 | Sampler: Gerald Weaver | Source: A | Maintenance Shop Sin | k Devereu | x Benet | o Center | | | |
| Bacteria-Total Coliform P | 0 MPN/100mL | Pass | 0 MPN/100mL | 6/6/2014 | 17:17 | ath | SM9223 | 0 | |
| Free Chlorine | 1.34 mg/L | Pass | 0.4 - 4.0 mg/L | 6/6/2014 | | gw | | | 2 |

¹ Analysis subcontracted to lab #06-003

This sample data will be forwarded to appropriate agencies to comply with monitoring requirements.

TO TO

"he Maximum Contaminant Level (MCL) is the maximum permissible level of a contaminant in water per the SDWA_R Some parameters have no established MC Pure-Test is certified #38-00338 by the Pennsylvania Department of Environmental Protection, #345 by the Maryland Department of the Environment.

MDE

Report Approved By:

Omah I Blist

Andrew T Heist, Lab Technician

² This parameter is not covered under PADEP accreditation. See www.puretest.com for current accreditation.



APPENDIX C

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Environmental Control Systems 950 Sussex Blvd. Broomall PA 19008

April 18, 2014

Project: ECS: Devereux

Submittal Date: 04/08/2014 Group Number: 1465560 PO Number: DEVEREUX State of Sample Origin: PA

Client Sample Description
SG-1 Air

Lancaster Labs (LL) #

7423402

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC

Environmental Control Systems

Attn: Barbara Lippmann

COPY TO

COPY TO

ELECTRONIC

SUN: Aquaterra Tech.

Attn: Tiffani Doerr

Respectfully Submitted,

Amek Carter Specialist

(717) 556-7252



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SG-1 Air Devereux

LL Sample # AQ 7423402 LL Group # 1465560

Account # 12363

Project Name: ECS: Devereux

Collected: 04/08/2014 10:00 by NS

Environmental Control Systems

through 04/08/2014 12:00 Submitted: 04/08/2014 17:03 950 Sussex Blvd. Broomall PA 19008

Reported: 04/18/2014 13:51

| CAT No. | Analysis Name | CAS Number | As Received Final Result | гоб | As Received Final Result | roō | DF |
|------------|-----------------------------------|----------------|-----------------------------|---------|-----------------------------|--------|----|
| Volat | iles in Air EPA TO-15 | | mg/m3 | mg/m3 | ppm(v) | ppm(v) | |
| 05298 | Benzene | 71-43-2 | 0.0074 | 0.0032 | 0.0023 | 0.0010 | 1 |
| 05298 | Cumene | 98-82-8 | < 0.0049 | 0.0049 | < 0.0010 | 0.0010 | 1 |
| 05298 | Ethylbenzene | 100-41-4 | 0.029 | 0.0043 | 0.0066 | 0.0010 | 1 |
| 05298 | Methyl t-Butyl Ether | 1634-04-4 | < 0.0036 | 0.0036 | < 0.0010 | 0.0010 | 1 |
| 05298 | Naphthalene | 91-20-3 | 0.0067 | 0.0052 | 0.0013 | 0.0010 | 1 |
| 05298 | Toluene | 108-88-3 | 0.0059 | 0.0038 | 0.0016 | 0.0010 | 1 |
| 05298 | 1,2,4-Trimethylbenzene | 95-63-6 | < 0.0049 | 0.0049 | < 0.0010 | 0.0010 | 1 |
| 05298 | 1,3,5-Trimethylbenzene | 108-67-8 | < 0.0049 | 0.0049 | < 0.0010 | 0.0010 | 1 |
| A ta | rgeted search was performed for 1 | .1-difluoroeth | ane. This compou | ind was | | | |

A targeted search was performed for 1,1-diffuoroethane. This compound was detected at an estimated concentration of 5 ppb(v).

LOQ = Limit of Quantitation

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT | Analysis Name | Method | Trial# | Batch# | Analysis | Analyst | Dilution |
|-------|---------------------|-----------|--------|------------|------------------|-------------------|----------|
| No. | | | | | Date and Time | | Factor |
| 05298 | TO 15 VOA Ext. List | EPA TO-15 | 1 | C1410330AA | 04/14/2014 02:13 | Michael A Ziegler | 1 |

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Page 1 of 1

Quality Control Summary

Client Name: Environmental Control Systems

Reported: 04/18/14 at 01:51 PM

Group Number: 1465560

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank LOO | Report <u>Units</u> | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|--------------------------|-----------------|--------------|------------------------|-------------|--------------|--------------------|-----|---------|
| Batch number: C1410330AA | Sample numb | er(s): 742 | 23402 | | | | | |
| Benzene | < 0.0032 | 0.0032 | mg/m3 | 99 | 96 | 70-130 | 3 | 25 |
| Cumene | < 0.0049 | 0.0049 | mg/m3 | | | | | |
| Ethylbenzene | < 0.0043 | 0.0043 | mg/m3 | 99 | 107 | 70-130 | 8 | 25 |
| Methyl t-Butyl Ether | < 0.0036 | 0.0036 | mg/m3 | 99 | 112 | 52-129 | 12 | 25 |
| Naphthalene | < 0.0052 | 0.0052 | mg/m3 | 95 | 91 | 26-191 | 5 | 25 |
| Toluene | < 0.0038 | 0.0038 | mg/m3 | 101 | 106 | 70-130 | 5 | 25 |
| 1,2,4-Trimethylbenzene | < 0.0049 | 0.0049 | mg/m3 | 85 | 89 | 60-128 | 5 | 25 |
| 1,3,5-Trimethylbenzene | < 0.0049 | 0.0049 | mg/m3 | 92 | 96 | 61-132 | 5 | 25 |

*- Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Summa Canister Field Test Data/Chain of Custody

| Enviro | ster Laboratori nmental | Acct. | 12363 | Group #_ <u>jC</u> | For Euro Ir | ofins Lanc Sample structions on | aster La | aboratories 12340 Ide correspond | Environme Z with circled nu | ntal use mbers. | only Bo | ttle Order (SCI | ₹)#_ | ÌS | 34 | 74 | | |
|------------------------------------|---|-------------------------------------|--------------------------------------|---|--|---------------------------------------|----------------------|--|-----------------------------------|--------------------|--------------------|------------------------------------|--------|----------|------------|----------|---------|-------------------------|
| Client A | CI | ent Informa | | | | (3) 1 | Turnar | round Tir | ne Regu | ested | (TAT) | circle one) | 16 | A | nalv | ses F | Regu | estec |
| Aguaterra | Techn | lugies | Account # | | | Standard Rush (specify) | | | | | | | | Τ. | | | | |
| Project Namel# ECS - Dever | eux | 0 | | | | 4) 1 | | ackage F | Required | ? (5 |) EDD | Required? | 0000 | MTBE | | | | Acara, |
| Project Manager | | | P.O. # | | | | Yes | | (No) | | Yes | (No) | 20 | 7 🗆 | \$ | | 1 | S.G. |
| Sampler N. Sty. K | N. Stro. K | | | | | Ambie | | Start | rature (F) Stop | | Press Start | ure ("Hg) Stop | - 4 | BTEX | e below) | | | J. J. L. W. P. K. O. O. |
| Name of state where samples were o | ame of state where samples were collected | | | | Maxim | um - | | | | | | Zi. | | ≭ range | ا <u>ن</u> | | 49.00 | |
| 2) | | Y | | | | Minim | | _ | | _ | _ | | 55 | П | select | tracer | 1 5 | |
| Sample Identifica | tion (2 | Start Date/Time 4-hour clock) | Stop Date/Time (24-hour clock) | Canister Pressure in Field ("Hg) (Start) | Canister Pressure in Field ("Hg) (Stop) | Interior Temp. (F) (Start) | Temp (F) (Stop |). | Reg. ID | Can ID | Can Size (L) | Controller Flowrate (mL/min) | EPA TO | EPA 18 | EPA 25 (s | υl | UZ/COZ | In A |
| SG-1 | | 1600 | 1200 | 39"Hg | -2"Ha | - | _ | - | | 896 | 6 | 40.7 | × | | <u>"</u> | 1 | + | 7 |
| | | | | | | | | | | | | | | | | | | |
| | | | | - | | | | | | | | | L | Ш | \Box | | | |
| | _ | | | | | | - | | - | - | | | H | \vdash | 4 | - | + | + |
| | | | | | | | - | | | | | | H | + | \dashv | + | ╁ | Н |
| | | | | | | | | | | | | | | | T | + | + | H |
| | | | | | | | | | | | | | | | I | | | |
| | | | | | | | | | | | | | | | 1 | | \perp | |
| | | | | | | | | - | | | | | Н | + | + | + | + | \vdash |
| 7) Instructions/QC Rec | juirements & | Comment | 3 | | | | | EPA 25 | (check or | ne) | | C1 - C4 | | | C2 - | C10 | _ | \dashv |
| | | | | | | | | 1 | j. | | | C1 - C10 | | | 04 - | C10 | (GR | O) |
| anisters Shipped by: | Date/Time | Canisters R | oceived by: | Date/ | ime: Relina | uished by: | 0 | | IDate/file | 7 | | C2 - C4 | | | | TR280600 | | |
| CISN CISN | コンナーリ | | | | | belle | Str | K | Date/Tin | 330 | Sty (| ine Room | ^ | | P | 1/2/ | 14 | (8) Z/ |
| | Date/Time: | Received by | | Date/T | ime: Refind | uished by: | _ | -// | Date/Tim | 10: / | Received by | El. | _ | | P | ate/ig/ | 10: | 1430 |
| relinquished by: | Date/Time: | Received by | | Date/T | lme: Reling | uished by: | 1. | Azeres | Date/Tirr | | Received by | 11 1 | | | D | ate/Tim | ie: | 70 |
| | | urofins Lancas | ler Laboratories E | nvironmental | LLC + 2425 No | | m | | | 173 | | 14 Sh | _ | | 6 | 18/1 | 4 (| 103 |

🔅 eurofins |

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.



Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| RL | Reporting Limit | BMQL | Below Minimum Quantitation Level |
|----------|-----------------------|----------|----------------------------------|
| N.D. | none detected | MPN | Most Probable Number |
| TNTC | Too Numerous To Count | CP Units | cobalt-chloroplatinate units |
| IU | International Units | NTU | nephelometric turbidity units |
| umhos/cm | micromhos/cm | ng | nanogram(s) |
| С | degrees Celsius | F | degrees Fahrenheit |
| meq | milliequivalents | lb. | pound(s) |
| g | gram(s) | kg | kilogram(s) |
| μg | microgram(s) | mg | milligram(s) |
| mĹ | milliliter(s) | L | liter(s) |
| m3 | cubic meter(s) | μL | microliter(s) |
| | | pg/L | picogram/liter |

- less than The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.
- greater than

parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For ppm aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

parts per billion ppb

Dry weight Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported basis on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

| Α | TIC is a possible aldol-condensation product | В | Value is <crdl, but="" th="" ≥ldl<=""></crdl,> |
|---|--|---|--|
| В | Analyte was also detected in the blank | E | Estimated due to interference |
| C | Pesticide result confirmed by GC/MS | M | Duplicate injection precision not met |
| D | Compound quantitated on a diluted sample | N | Spike sample not within control limits |
| Ε | Concentration exceeds the calibration range of | S | Method of standard additions (MSA) used |
| | the instrument | | for calculation |
| N | Presumptive evidence of a compound (TICs only) | U | Compound was not detected |
| Р | Concentration difference between primary and | W | Post digestion spike out of control limits |
| | confirmation columns >25% | * | Duplicate analysis not within control limits |

Compound was not detected

X,Y,Z Defined in case narrative Correlation coefficient for MSA < 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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