February 15, 2018

Rick Joslin
Wisconsin Department of Natural Resources
625 E. County Rd Y, Suite 700
Oshkosh, Wisconsin 54901

**Re: Further Site Investigation Update**
**Former Troy Laundry & Cleaners**
**320 Pine Street, Sheboygan Falls, Wisconsin**
**BRRTS#: 02-60-385641**

Dear Mr. Joslin:

EnviroForensics, LLC (EnviroForensics) is pleased to provide this Further Site Investigation (FSI) Update for the Former Troy Laundry & Cleaners facility located at 320 Pine Street in Sheboygan Falls, Wisconsin (Site). The Site layout is depicted on **Figure 1**. The Site investigation is being performed in accordance with Wisconsin Department of Natural Resources (WDNR) regulations and guidance regarding such investigations.

The FSI work plan was submitted to WDNR on November 17, 2017. The work plan included three (3) main tasks:

- Installation of an additional groundwater monitoring well at the location of former soil boring GP-5 southeast of the building;
- Additional assessment of the vapor intrusion pathway in the Site building, including sub-slab vapor and soil gas sampling; and
- Groundwater monitoring.

## FURTHER SITE INVESTIGATION UPDATE

EnviroForensics managed and/or performed the FSI tasks listed above from November 2017 through January 2018, including two (2) vapor intrusion assessment sampling events and the first groundwater monitoring event.

### Monitoring Well Installation

New monitoring well MW-5 was installed at the location of former soil boring GP-5 (see **Figure 2**). The purpose of MW-5 is to evaluate groundwater conditions at the GP-5 location


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with a permanent monitoring well constructed in compliance with WDNR regulations. The well was installed using hollow-stem auger methods in accordance with the requirements of Wisconsin Administrative Code (WAC) Chapter NR 141. The soil boring log is presented in **Attachment 1**.

The monitoring well was constructed with 2-inch diameter PVC screen and riser. A 10-foot long 0.010-inch slotted screen was installed from 8.5 to 18.5 feet below ground surface (bgs). An expandable locking cap and padlock were placed on the well. The surface completion consists of a flush-mount well vault set in concrete. The new monitoring was developed according to the procedures described in WAC Chapter NR 141. The monitoring well development and construction forms will be included in a future submittal.

**Groundwater Monitoring**

Groundwater monitoring was performed on December 11, 2017. The monitoring event included groundwater elevation measurements and sample collection from all monitoring wells using standard low-flow methods. For quality assurance and quality control QA/QC purposes, one (1) duplicate sample and one (1) equipment blank sample were collected; and one (1) trip blank accompanied the cooler. The samples were submitted to a state-certified laboratory for analysis of volatile organic compounds (VOCs) according to US EPA Method 8260B.

The groundwater monitoring results are summarized on **Table 1** and **Figure 2**, and the complete laboratory report is included in **Attachment 2**. The samples collected from monitoring wells MW-1, -2, -3, and MW-5 contained tetrachloroethene (PCE) at concentrations *less* than the enforcement standard (ES). PCE was not detected in the sample from MW-4 but that sample did contain vinyl chloride at 0.77 micrograms per liter (µg/L), which is just above the ES of 0.2 µg/L. No other compounds related to dry cleaning solvent were detected.

Investigation-derived media (IDM) generated during FSI activities, including soil cuttings, decontamination fluids, and purge water, was placed in 55-gallon steel drums and stored on Site. The IDM will be transported off-Site under existing non-hazardous waste profiles for disposal.

**Vapor Intrusion Assessment**

The vapor intrusion (VI) assessment included two (2) indoor air and sub-slab vapor sampling events. The sampling events were performed on November 28, 2017 and January 29, 2018. Three (3) sub-slab vapor samples and three (3) indoor air samples were collected during each event. The sample locations are depicted on **Figure 3**. All VI assessment activities were conducted in accordance with WDNR guidance, including Publication RR-800: *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin.*

Two (2) samples were collected from the basement of the building (IA-B-1 and IA-B-2), and one (1) sample was collected from the first floor (IA-1-1). Additionally, one (1) outdoor air sample was collected outside of the building to assess background conditions. Samples were collected in individually certified vacuum canisters positioned 3-5 feet above the floor. Sample collection occurred over an 8-hour period as recommended for a commercial building.

Permanent Vapor Pin® sampling ports designated SSV-1 through SSV-3 were installed in the basement slab of the building. The sampling port locations are depicted on **Figure 1**. To ensure that the sub-slab vapor samples were representative of subsurface conditions, water dam leak testing was performed at each sample port. The integrity of the sample tubing and fittings was also verified prior to sample collection by conducting a negative pressure test.

The sub-slab vapor samples were collected through dedicated Teflon-lined polyethylene tubing connected to the sampling ports. A graduated syringe was used to purge ambient air from the tubing prior to initiating sample collection. Vapor beneath the concrete slab was then drawn into a 1-liter vacuum canister fitted with a laboratory supplied regulator that limited the flow rate to approximately 200 milliliters per minute (mL/min). Following the completion of each sampling event, the indoor/outdoor air and sub-slab vapor sample canisters were submitted to an environmental laboratory for analysis of the contaminants of concern via EPA Test Method TO-15.

The analytical results of the air and vapor samples are summarized on **Table 2** and **Figure 3**. The VOC concentrations are compared to WDNR vapor action levels (VALs) and vapor risk screening levels (VRSLs), respectively. The laboratory reports are included in **Attachment 2**. Basement indoor air samples IA-B2 and first floor air samples IA-1 contained PCE and trichloroethene (TCE) at concentrations *below* the VALs for small commercial buildings. The contaminants of concern were not detected in the other basement sample.

Each of the sub-slab vapor samples contained PCE and/or TCE at concentrations below the VRSLs with the exception of the first sample collected from port SSV-2. The PCE concentration in the November 2017 sample collected from SSV-2 was 8,930 micrograms per cubic meter ($\mu g/m^3$), which exceeded the VRSL of 6,000 $\mu g/m^3$. However, the PCE concentration decreased to 621 $\mu g/m^3$ in the second sample collected January 29, 2018.

## CONCLUSIONS AND RECOMMENDATIONS

The PCE concentration in the first sample collected from new monitoring well MW-5 was less than that detected in the 2003 grab sample from boring GP-5 (18.8 µg/L), and below the ES. EnviroForensics will continue monitoring MW-5; however, at this time no further groundwater impact delineation activities are warranted.

Although the PCE concentration detected in the initial SSV-2 sample was above the VRSL, the PCE concentration in the most recent sample was an order of magnitude less than the VRSL. An evaluation of the cumulative vapor intrusion assessment data indicates that vapor intrusion exposure risk is low. Therefore, vapor mitigation is not recommended at this time. EnviroForensics recommends the following FSI tasks:

- Conduct two (2) additional vapor intrusion sampling events to confirm the absence of vapor intrusion risk. Collect samples only from locations where a screening level was exceeded (i.e., SSV-2 and IA-B-2).
- Continue quarterly groundwater monitoring during 2018.

The additional FSI data will be reported in a Supplemental Site Investigation Report prepared in accordance with WAC Chapter NR 716.

If you have any questions regarding the status of the project, please do not hesitate to call us at (262) 290-4001.

Sincerely,
**EnviroForensics, LLC**

Brian Kappen, PG
*Project Manager*

Rob Hoverman
*Senior Project Manager*

Copy: Tom and Marilyn Berlin

**List of Attachments:**

Table 1: Summary of Groundwater Sample Analytical Results
Table 2: Summary of Vapor Intrusion Assessment Sample Analytical Results

Figure 1: Site Layout
Figure 2: Monitoring Well Sample Analytical Results
Figure 3: Soil Gas and Vapor Intrusion Assessment Results Summary

Attachment 1: Soil Boring Log
Attachment 2: Laboratory Reports

# TABLES

# TABLE 1
## SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
MT Wooden Wash Tub
320 Pine Street, Sheboygan Falls, Wisconsin

| Consultant | Sample Location Identification | Sample Identification | Sample Date | Tetrachloroethene | Trichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Vinyl Chloride | Toluene | p-Isopropyltoluene |
|---|---|---|---|---|---|---|---|---|---|---|
| **Enforcement Standard** | | | | **5** | **5** | **70** | **100** | **0.2** | **1,000** | **NE** |
| **Preventive Action Limit** | | | | **0.5** | **0.5** | **7** | **20** | **0.02** | **200** | **NE** |
| Earth Tech, Inc | B-8 | B8 | 9/23/2002 | **6.45** | <0.36 | <0.23 | <0.39 | <0.2 | <0.3 | <0.32 |
| | B-20 | B20 | 9/23/2002 | NA | NA | NA | NA | NA | NA | NA |
| AES Consultants | GP-1 | GP-1 | 4/1/2003 | <0.500 | <0.500 | <0.500 | <0.500 | <0.170 | <0.500 | <0.500 |
| | GP-2 | GP-2 | 4/1/2003 | <0.500 | <0.500 | <0.500 | <0.500 | <0.170 | <0.500 | <0.500 |
| | GP-3 | GP-3 | 7/2/2003 | <0.500 | <0.500 | <0.500 | <0.500 | <0.170 | <0.500 | <0.500 |
| | GP-4 | GP-4 | 7/2/2003 | <0.500 | <0.500 | <0.500 | <0.500 | <0.170 | <0.500 | <0.500 |
| | GP-5 | GP-5 | 7/2/2003 | **18.8** | <0.500 | <0.500 | <0.500 | <0.170 | <0.500 | **11.4** |
| EnviroForensics | MW-1 | 6351-MW-1 | 9/29/2016 | **2.62** | <0.47 | <0.45 | <0.54 | <0.17 | <0.44 | <1.1 |
| | | 6351-DUP-1 | 9/29/2016 | **2.9** | <0.47 | <0.45 | <0.54 | <0.17 | <0.44 | <1.1 |
| | | 6351-MW-1 | 12/9/2016 | **1.41 J** | <0.47 | <0.45 | <0.54 | <0.17 | <0.44 | <1.1 |
| | | 6351-MW-1 | 12/11/2017 | **1.09 J** | <0.45 | <0.41 | <0.35 | <0.19 | <0.67 | <0.28 |
| | MW-2 | 6351-MW-2 | 9/29/2016 | **1.71** | <0.47 | <0.45 | <0.54 | <0.17 | <0.44 | <1.1 |
| | | 6351-MW-2 | 12/9/2016 | **1.63** | <0.47 | <0.45 | <0.54 | <0.17 | <0.44 | <1.1 |
| | | 6351-MW-2 | 12/11/2017 | **1.23 J** | <0.45 | <0.41 | <0.35 | <0.19 | <0.67 | <0.28 |
| | MW-3 | 6351-MW-3 | 9/29/2016 | **2.5** | <0.47 | <0.45 | <0.54 | <0.17 | <0.44 | <1.1 |
| | | 6351-MW-3 | 12/9/2016 | **1.93** | <0.47 | <0.45 | <0.54 | <0.17 | <0.44 | <1.1 |
| | | 6351-MW-3 | 12/11/2017 | **1.98** | <0.45 | <0.41 | <0.35 | <0.19 | <0.67 | <0.28 |
| | MW-4 | 6351-MW-4 | 9/29/2016 | <0.49 | <0.47 | <0.45 | <0.54 | **0.72** | <0.44 | <1.1 |
| | | 6351-MW-4 | 12/9/2016 | <0.49 | <0.47 | <0.45 | <0.54 | <0.17 | **3.3** | <1.1 |
| | | 6351-DUP-1 | 12/9/2016 | <0.49 | <0.47 | <0.45 | <0.54 | <0.17 | **3.9** | <1.1 |
| | | 6351-MW-4 | 12/11/2017 | <0.48 | <0.45 | <0.41 | <0.35 | **0.77** | <0.67 | <0.28 |
| | MW-5 | 6351-MW-5 | 12/11/2017 | **3.4** | <0.45 | <0.41 | <0.35 | <0.19 | <0.67 | <0.28 |

**Notes:**

Samples analyzed for VOCs according to EPA Method 8260

Only detected compounds are listed

All concentrations reported in micrograms per liter (µg/L)

[1] Value applies to total combined trimethylbenzenes

**Bolded** values are above method detection limits

**Bolded** and orange shaded values are above Public Health Enforcement Standard

**Bolded** and blue shaded values are above Public Health Preventive Action Limit

J = Analyte concentration detected between the Method Detection Limit and Reporting Limit

NA = Not Analyzed

# TABLE 2
## SUMMARY OF VAPOR INTRUSION ASSESSMENT SAMPLE ANALYTICAL RESULTS
MT Wooden Wash Tub
320 Pine Street, Sheboygan Falls, Wisconsin

| Sample Location | Sample Identification | Sample Date | Tetrachloroethene | Trichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Vinyl Chloride | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Benzene | Chloroform | m,p Xylene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **INDOOR/OUTDOOR AIR** | | | | | | | | | | | | |
| **Vapor Action Level [1]** | | | **180** | **8.8** | **NE** | **NE** | **28** | **260** | **260** | **16** | **5.3** | **440** |
| Outdoor | 6351-OA-1 | 9/29/2016 | <3.19 | <1.07 | <3.96 | <3.96 | <0.64 | NA | NA | NA | NA | NA |
| | | 11/28/2017 | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 | <4.92 | <4.92 | <1.60 | <0.83 | <43.4 |
| | | 1/29/2018 | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 | NA | NA | NA | NA | NA |
| Basement | 6351-IA-B-1 | 9/29/2016 | **6.85** | <1.07 | <3.96 | <3.96 | <0.64 | NA | NA | NA | NA | NA |
| | | 11/28/2017 | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 | **9.34** | <4.92 | **18.2** | <0.83 | **63.8** |
| | | 1/29/2018 | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 | NA | NA | NA | NA | NA |
| Basement | 6351-IA-B-2 | 9/29/2016 | **24.8** | <1.07 | <3.96 | <3.96 | <0.64 | NA | NA | NA | NA | NA |
| | | 11/28/2017 | **135** | **7.15** | <19.8 | <39.6 | <1.28 | **6.44** | <4.92 | **3.45** | <0.83 | <43.4 |
| | | 1/29/2018 | **77.1** | **3.39** | <19.8 | <39.6 | <1.28 | NA | NA | NA | NA | NA |
| Basement | 6351-IA-B-3 | 9/29/2016 | **10.6** | <1.07 | <3.96 | <3.96 | <0.64 | NA | NA | NA | NA | NA |
| 1st Floor | 6351-IA-1 | 11/28/2017 | **58.7** | <1.07 | <19.8 | <39.6 | <1.28 | <4.92 | <4.92 | <1.60 | **1.22** | <43.4 |
| | | 1/29/2018 | **33.2** | **1.40** | <19.8 | <39.6 | <1.28 | NA | NA | NA | **NA** | NA |
| **SUB-SLAB VAPOR** | | | | | | | | | | | | |
| **Vapor Risk Screening Level [1]** | | | **6,000** | **290** | **NE** | **NE** | **930** | **8,700** | **8,700** | **530** | **180** | **15,000** |
| Basement | 6351-SSV-1 | 11/28/2017 | **11.7** | <1.07 | <19.8 | <39.6 | <1.28 | <4.92 | <4.92 | <1.60 | <0.83 | <43.4 |
| | | 1/29/2018 | **5.36** | <1.07 | <19.8 | <39.6 | <1.28 | NA | NA | NA | NA | NA |
| Basement | 6351-SSV-2 | 11/28/2017 | **8,930** | **3.44** | <19.8 | <39.6 | <1.28 | **11.9** | **13.6** | <1.60 | <0.83 | <43.4 |
| | | 1/29/2018 | **621** | **2.96** | <19.8 | <39.6 | <1.28 | NA | NA | NA | NA | NA |
| Basement | 6351-SSV-3 | 11/28/2017 | **133** | **9.51** | <19.8 | <39.6 | <1.28 | **4.96** | <4.92 | **2.24** | <0.83 | <43.4 |
| | | 1/29/2018 | **159** | **4.73** | <19.8 | <39.6 | <1.28 | NA | NA | NA | NA | NA |

# TABLE 2
## SUMMARY OF VAPOR INTRUSION ASSESSMENT SAMPLE ANALYTICAL RESULTS
MT Wooden Wash Tub
320 Pine Street, Sheboygan Falls, Wisconsin

**Notes:**

[1] Vapor Action Levels and Vapor Risk Screening Levels are calculated in accordance with the procedures described in WDNR Publication RR-800

All concentrations reported in units in micrograms per cubic meter = µg/m³

Only detected compounds are listed

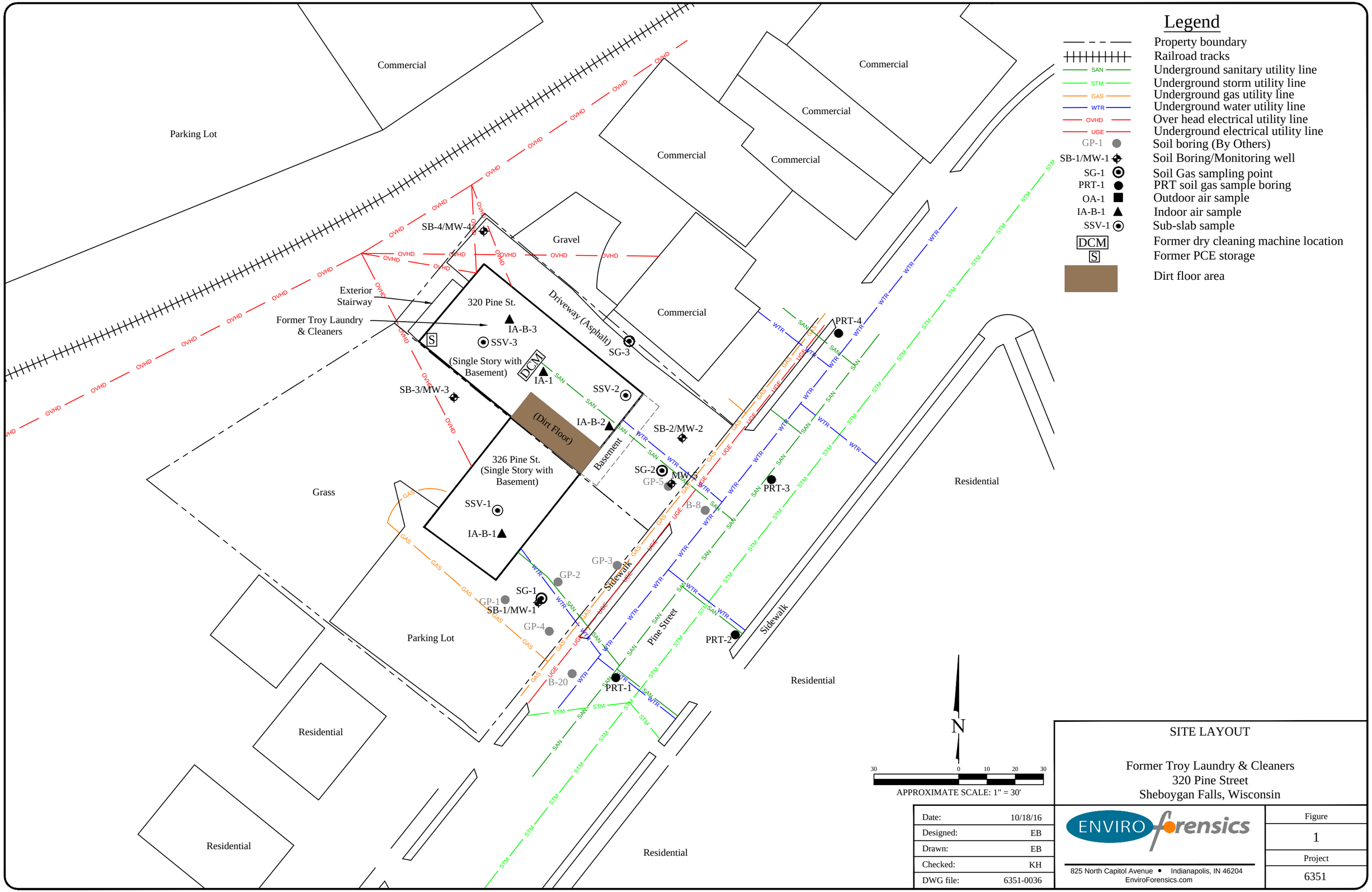
**Bolded** values are above method detection limits

**Bolded and orange shaded** values exceed the Vapor Action Level or Vapor Risk Screening Level for small commercial buildings

NE = Not Established

NA = Not Analyzed

# FIGURES




SITE LAYOUT

Former Troy Laundry & Cleaners
320 Pine Street
Sheboygan Falls, Wisconsin

| | |
|---|---|
| Date: | 10/18/16 |
| Designed: | EB |
| Drawn: | EB |
| Checked: | KH |
| DWG file: | 6351-0036 |

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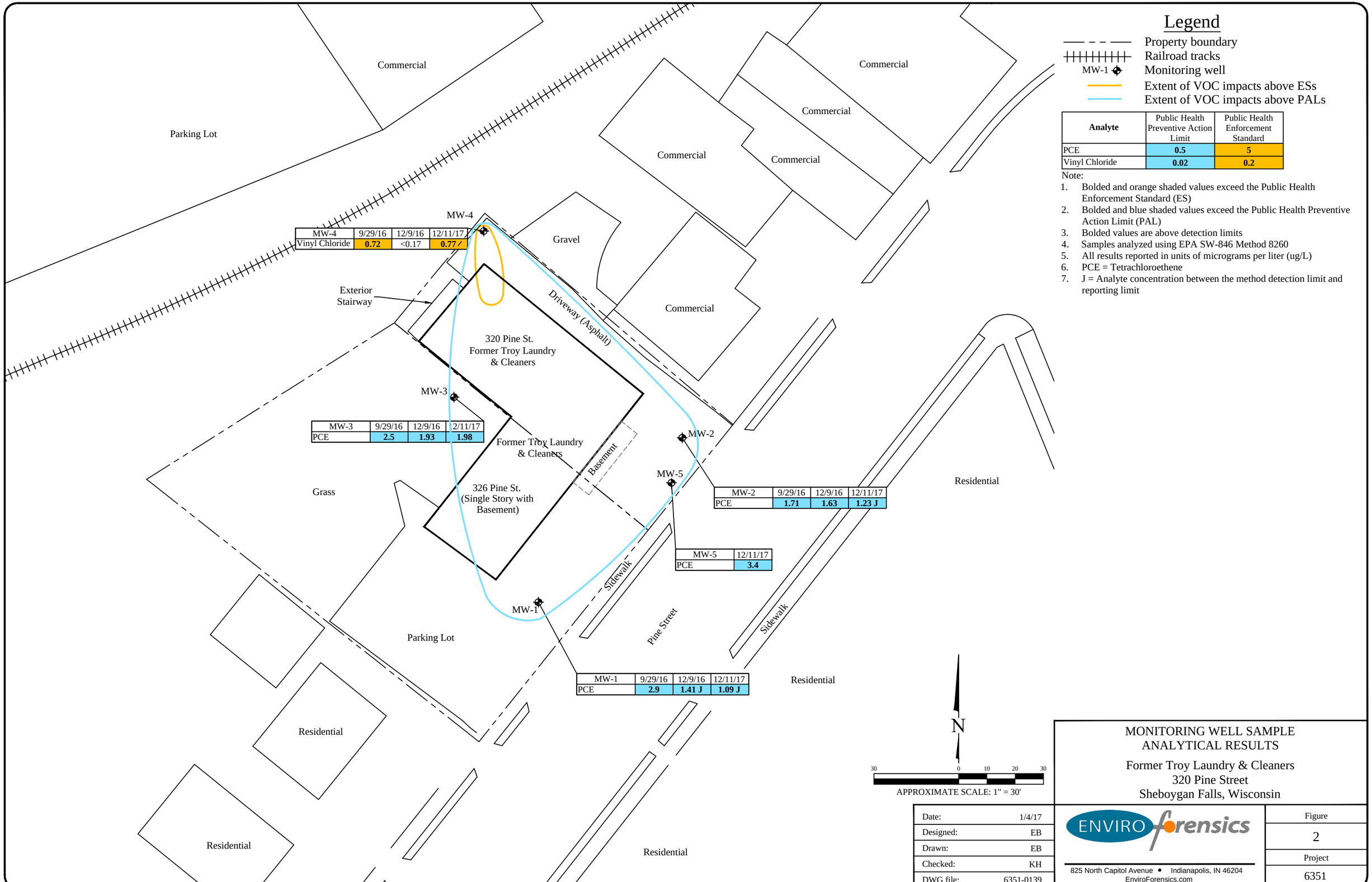
| Figure |
|---|
| 1 |
| Project |
| 6351 |




# Legend

- Property boundary
- Railroad tracks
- MW-1 — Monitoring well
- Extent of VOC impacts above ESs
- Extent of VOC impacts above PALs

| Analyte | Public Health Preventive Action Limit | Public Health Enforcement Standard |
|---|---|---|
| PCE | **0.5** | **5** |
| Vinyl Chloride | **0.02** | **0.2** |

Note:

1. Bolded and orange shaded values exceed the Public Health Enforcement Standard (ES)
2. Bolded and blue shaded values exceed the Public Health Preventive Action Limit (PAL)
3. Bolded values are above detection limits
4. Samples analyzed using EPA SW-846 Method 8260
5. All results reported in units of micrograms per liter (ug/L)
6. PCE = Tetrachloroethene
7. J = Analyte concentration between the method detection limit and reporting limit

## MONITORING WELL SAMPLE ANALYTICAL RESULTS

Former Troy Laundry & Cleaners
320 Pine Street
Sheboygan Falls, Wisconsin

| | |
|---|---|
| Date: | 1/4/17 |
| Designed: | EB |
| Drawn: | EB |
| Checked: | KH |
| DWG file: | 6351-0139 |

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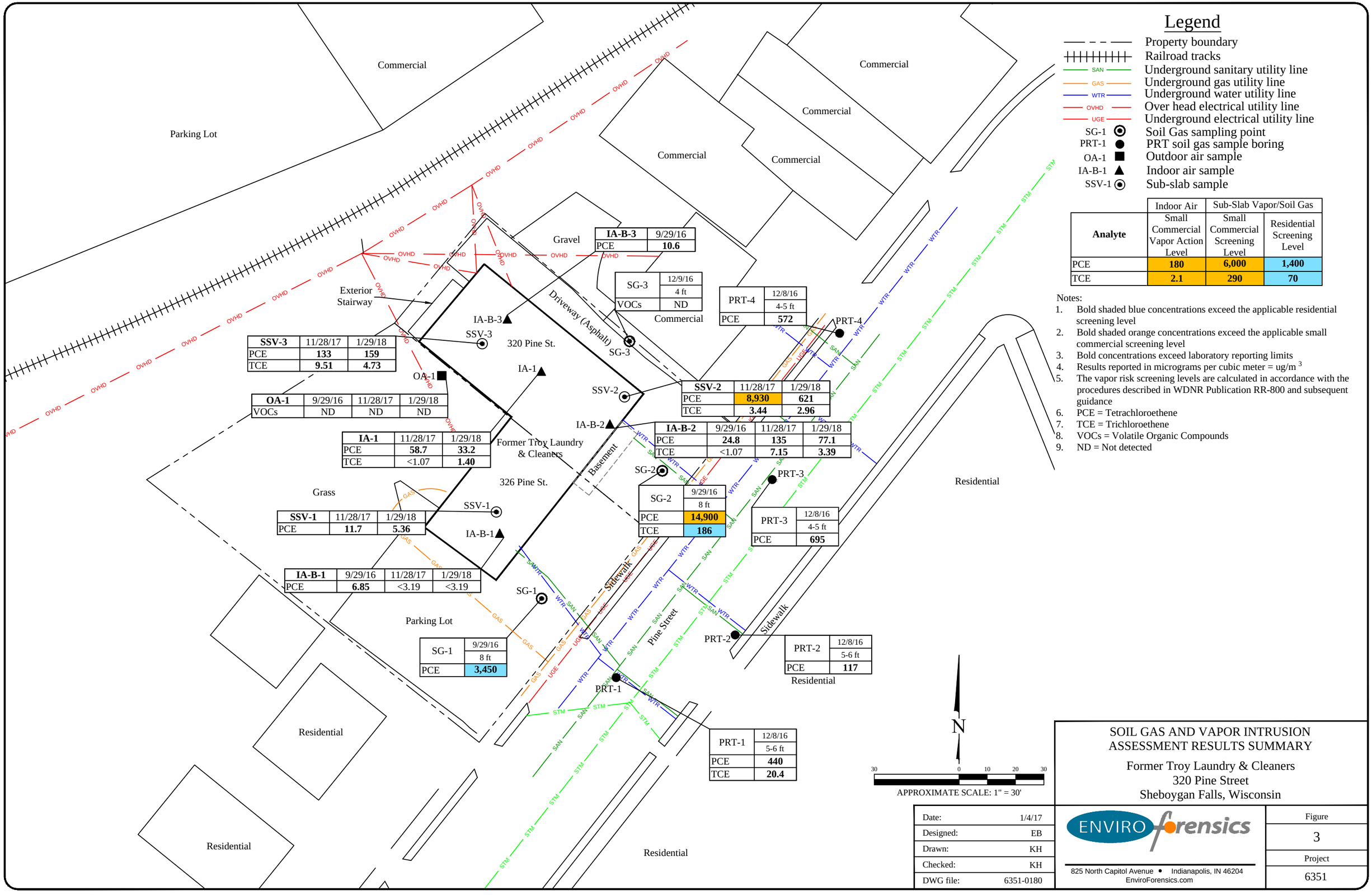
Figure 2

Project 6351




| IA-B-3 | 9/29/16 |
|---|---|
| PCE | **10.6** |

| SG-3 | 12/9/16 |
|---|---|
| | 4 ft |
| VOCs | ND |

| PRT-4 | 12/8/16 |
|---|---|
| | 4-5 ft |
| PCE | **572** |

| SSV-3 | 11/28/17 | 1/29/18 |
|---|---|---|
| PCE | **133** | **159** |
| TCE | **9.51** | **4.73** |

| OA-1 | 9/29/16 | 11/28/17 | 1/29/18 |
|---|---|---|---|
| VOCs | ND | ND | ND |

| SSV-2 | 11/28/17 | 1/29/18 |
|---|---|---|
| PCE | **8,930** | **621** |
| TCE | **3.44** | **2.96** |

| IA-1 | 11/28/17 | 1/29/18 |
|---|---|---|
| PCE | **58.7** | **33.2** |
| TCE | <1.07 | **1.40** |

| IA-B-2 | 9/29/16 | 11/28/17 | 1/29/18 |
|---|---|---|---|
| PCE | **24.8** | **135** | **77.1** |
| TCE | <1.07 | **7.15** | **3.39** |

| SSV-1 | 11/28/17 | 1/29/18 |
|---|---|---|
| PCE | **11.7** | **5.36** |

| SG-2 | 9/29/16 |
|---|---|
| | 8 ft |
| PCE | **14,900** |
| TCE | **186** |

| PRT-3 | 12/8/16 |
|---|---|
| | 4-5 ft |
| PCE | **695** |

| IA-B-1 | 9/29/16 | 11/28/17 | 1/29/18 |
|---|---|---|---|
| PCE | **6.85** | <3.19 | <3.19 |

| SG-1 | 9/29/16 |
|---|---|
| | 8 ft |
| PCE | **3,450** |

| PRT-2 | 12/8/16 |
|---|---|
| | 5-6 ft |
| PCE | **117** |

| PRT-1 | 12/8/16 |
|---|---|
| | 5-6 ft |
| PCE | **440** |
| TCE | **20.4** |

## Legend

- Property boundary
- Railroad tracks
- SAN — Underground sanitary utility line
- GAS — Underground gas utility line
- WTR — Underground water utility line
- OVHD — Over head electrical utility line
- UGE — Underground electrical utility line
- SG-1 — Soil Gas sampling point
- PRT-1 — PRT soil gas sample boring
- OA-1 — Outdoor air sample
- IA-B-1 — Indoor air sample
- SSV-1 — Sub-slab sample

| Analyte | Indoor Air: Small Commercial Vapor Action Level | Sub-Slab Vapor/Soil Gas: Small Commercial Screening Level | Sub-Slab Vapor/Soil Gas: Residential Screening Level |
|---|---|---|---|
| PCE | **180** | **6,000** | **1,400** |
| TCE | **2.1** | **290** | **70** |

Notes:
1. Bold shaded blue concentrations exceed the applicable residential screening level
2. Bold shaded orange concentrations exceed the applicable small commercial screening level
3. Bold concentrations exceed laboratory reporting limits
4. Results reported in micrograms per cubic meter = ug/m $^3$
5. The vapor risk screening levels are calculated in accordance with the procedures described in WDNR Publication RR-800 and subsequent guidance
6. PCE = Tetrachloroethene
7. TCE = Trichloroethene
8. VOCs = Volatile Organic Compounds
9. ND = Not detected

# SOIL GAS AND VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY

Former Troy Laundry & Cleaners
320 Pine Street
Sheboygan Falls, Wisconsin

| | |
|---|---|
| Date: | 1/4/17 |
| Designed: | EB |
| Drawn: | KH |
| Checked: | KH |
| DWG file: | 6351-0180 |

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Figure 3

Project 6351

# ATTACHMENT 1

# SOIL BORING LOG

State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐



| Facility/Project Name | License/Permit/Monitoring Number | Boring Number |
|---|---|---|
| Former Troy Laundry and Cleaners | 02-60-385641 | SB-12 |

| Boring Drilled By: Name of crew chief (first, last) and Firm | Date Drilling Started | Date Drilling Completed | Drilling Method |
|---|---|---|---|
| On-site Environmental Services | 11/28/2017 | 11/28/2017 | DP |

| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | MW-5 | Feet MSL | Feet MSL | 2.3 inches |

Local Grid Origin ☐ (estimated: ☐ ) or Boring Location ☒
State Plane N, E Ⓢ/C/N
SE 1/4 of NW 1/4 of Section 36, T 15 N, R 22
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

| Facility ID | County | County Code | Civil Town/City/ or Village |
|---|---|---|---|
| 460007900 | 60 | | Sheboygan Falls, WI |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties: Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 60 30 | | 0 | **(0-.5) CONCRETE (CONCRETE):** CONCRETE. | CONCRETE | | | | | | | | | |
| Soil | | | 1 | **(0.5-2) FILL (SW):** Brown; fine to coarse sand, with clay, moist. | SW | | | 0 ppm | | | | | | |
| | | | 2 | **(2-3) CLAY (CL):** Reddish brown, CLAY, few fine Gravel,plastic properties. | CL | | | | | | | | | |
| | | | 3 | **(3-5) SAND (SW-SC):** Yellowish brown, Clayey SAND, fine to coarse grained; some fine gravel, plastic properties. | SW-SC | | | 0 ppm | | | | | | |
| | | | 4 | | | | | | | | | | | |
| Soil | 60 40 | | 5 | **(5-7) GRAVEL (GW):** Brown with white seams, Sandy GRAVEL,fine to coarse gravel, angular; with fine to coarse sand. | GW | | | 0 ppm | | | | | | |
| | | | 6 | | | | | | | | | | | |
| | | | 7 | **(7-10) SAND (SW):** Yellowish Brown, Gravelly SAND,fine to coarse grained; some fine to coarse gravel,semi-saturated | SW | | | 0 ppm | | | | | | |
| | | | 8 | | | | | | | | | | | |
| | | | 9 | | | | | 0 ppm | | | | | | |
| Soil | 60 60 | | 10 | **(10-12) SAND (SW):** Yellowish Brown, Gravelly SAND,fine to coarse grained; some fine to coarse gravel,saturated. | SW | | | | | | | | | |
| | | | 11 | | | | | 0 ppm | | | | | | |
| | | | 12 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm EnviroForensics
N16 W 23390 Stone Ridge Dr, Suite G Waukesha, WI 53188
Tel: 262-290-4001
Fax: 317-972-7875

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

**SOIL BORING LOG INFORMATION SUPPLEMENT**
Form 4400-122A

Boring Number SB-12 Use only as an attachment to Form 4400-122. 

| Sample Number and Type | Sample Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties: Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Soil | 60<br>60 | | 13<br>14<br>15<br>16<br>17<br>18 | **(12-18.5) SAND (SC):** Reddish Brown, Clayey SAND, fine to coarse grained; with clay, plastic properties, saturated. | SC | | | 0 ppm<br>0 ppm<br>0 ppm | | | | | | |
| | | | | **(18.5-20) SILT (ML):** Grey, Sandy SILT, elastic properties. | ML | | | 0 ppm | | | | | | |
| | | | | EOB at 20' | | | | | | | | | | EOB |

# ATTACHMENT 2

# LABORATORY REPORTS

# *Synergy Environmental Lab, INC.*

**1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631**


ROB HOVERMAN
ENVIROFORENSICS
825 N. CAPITOL AVENUE
INDIANAPOLIS, IN 46204

**Report Date** *14-Dec-17*

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033A
**Sample ID** 6351-MW-3
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| Organic | | | | | | | | | | |
| VOC's | | | | | | | | | | |
| Benzene | < 0.17 | ug/l | 0.17 | 0.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromobenzene | < 0.43 | ug/l | 0.43 | 1.37 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromodichloromethane | < 0.31 | ug/l | 0.31 | 1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromoform | < 0.49 | ug/l | 0.49 | 1.56 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| tert-Butylbenzene | < 0.39 | ug/l | 0.39 | 1.23 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| sec-Butylbenzene | < 0.24 | ug/l | 0.24 | 0.76 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Butylbenzene | < 0.34 | ug/l | 0.34 | 1.08 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Carbon Tetrachloride | < 0.21 | ug/l | 0.21 | 0.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chlorobenzene | < 0.27 | ug/l | 0.27 | 0.86 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroethane | < 0.5 | ug/l | 0.5 | 1.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroform | < 0.96 | ug/l | 0.96 | 3.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloromethane | < 1.3 | ug/l | 1.3 | 4.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 2-Chlorotoluene | < 0.36 | ug/l | 0.36 | 1.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 4-Chlorotoluene | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dibromo-3-chloropropane | < 1.88 | ug/l | 1.88 | 5.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dibromochloromethane | < 0.45 | ug/l | 0.45 | 1.44 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,4-Dichlorobenzene | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichlorobenzene | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichlorobenzene | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dichlorodifluoromethane | < 0.38 | ug/l | 0.38 | 1.2 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloroethane | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethane | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethene | < 0.46 | ug/l | 0.46 | 1.47 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,2-Dichloroethene | < 0.41 | ug/l | 0.41 | 1.29 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,2-Dichloroethene | < 0.35 | ug/l | 0.35 | 1.12 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloropropane | < 0.39 | ug/l | 0.39 | 1.24 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichloropropane | < 0.49 | ug/l | 0.49 | 1.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,3-Dichloropropene | < 0.42 | ug/l | 0.42 | 1.33 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,3-Dichloropropene | < 0.21 | ug/l | 0.21 | 0.65 | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033A
**Sample ID** 6351-MW-3
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | < 0.26 | ug/l | 0.26 | 0.83 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| EDB (1,2-Dibromoethane) | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Ethylbenzene | < 0.2 | ug/l | 0.2 | 0.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Hexachlorobutadiene | < 1.47 | ug/l | 1.47 | 4.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Isopropylbenzene | < 0.29 | ug/l | 0.29 | 0.93 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| p-Isopropyltoluene | < 0.28 | ug/l | 0.28 | 0.91 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methylene chloride | < 0.94 | ug/l | 0.94 | 2.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methyl tert-butyl ether (MTBE) | < 0.82 | ug/l | 0.82 | 2.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Naphthalene | < 2.17 | ug/l | 2.17 | 6.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Propylbenzene | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.69 | ug/l | 0.69 | 2.21 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1,2-Tetrachloroethane | < 0.47 | ug/l | 0.47 | 1.48 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Tetrachloroethene | 1.98 | ug/l | 0.48 | 1.52 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Toluene | < 0.67 | ug/l | 0.67 | 2.13 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trichlorobenzene | < 1.29 | ug/l | 1.29 | 4.1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,3-Trichlorobenzene | < 0.83 | ug/l | 0.83 | 2.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1-Trichloroethane | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2-Trichloroethane | < 0.65 | ug/l | 0.65 | 2.06 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichloroethene (TCE) | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichlorofluoromethane | < 0.64 | ug/l | 0.64 | 2.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trimethylbenzene | < 1.14 | ug/l | 1.14 | 3.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3,5-Trimethylbenzene | < 0.91 | ug/l | 0.91 | 2.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Vinyl Chloride | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| m&p-Xylene | < 1.56 | ug/l | 1.56 | 4.95 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| o-Xylene | < 0.39 | ug/l | 0.39 | 1.25 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Toluene-d8 | 99 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 1,2-Dichloroethane-d4 | 102 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 4-Bromofluorobenzene | 108 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Dibromofluoromethane | 105 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033B
**Sample ID** 6351-MW-4
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| Organic | | | | | | | | | | |
| VOC's | | | | | | | | | | |
| Benzene | < 0.17 | ug/l | 0.17 | 0.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromobenzene | < 0.43 | ug/l | 0.43 | 1.37 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromodichloromethane | < 0.31 | ug/l | 0.31 | 1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromoform | < 0.49 | ug/l | 0.49 | 1.56 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| tert-Butylbenzene | < 0.39 | ug/l | 0.39 | 1.23 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| sec-Butylbenzene | < 0.24 | ug/l | 0.24 | 0.76 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Butylbenzene | < 0.34 | ug/l | 0.34 | 1.08 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Carbon Tetrachloride | < 0.21 | ug/l | 0.21 | 0.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chlorobenzene | < 0.27 | ug/l | 0.27 | 0.86 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroethane | < 0.5 | ug/l | 0.5 | 1.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroform | < 0.96 | ug/l | 0.96 | 3.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloromethane | < 1.3 | ug/l | 1.3 | 4.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 2-Chlorotoluene | < 0.36 | ug/l | 0.36 | 1.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 4-Chlorotoluene | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dibromo-3-chloropropane | < 1.88 | ug/l | 1.88 | 5.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dibromochloromethane | < 0.45 | ug/l | 0.45 | 1.44 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,4-Dichlorobenzene | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichlorobenzene | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichlorobenzene | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dichlorodifluoromethane | < 0.38 | ug/l | 0.38 | 1.2 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloroethane | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethane | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethene | < 0.46 | ug/l | 0.46 | 1.47 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,2-Dichloroethene | < 0.41 | ug/l | 0.41 | 1.29 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,2-Dichloroethene | < 0.35 | ug/l | 0.35 | 1.12 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloropropane | < 0.39 | ug/l | 0.39 | 1.24 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichloropropane | < 0.49 | ug/l | 0.49 | 1.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,3-Dichloropropene | < 0.42 | ug/l | 0.42 | 1.33 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,3-Dichloropropene | < 0.21 | ug/l | 0.21 | 0.65 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Di-isopropyl ether | < 0.26 | ug/l | 0.26 | 0.83 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| EDB (1,2-Dibromoethane) | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Ethylbenzene | < 0.2 | ug/l | 0.2 | 0.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Hexachlorobutadiene | < 1.47 | ug/l | 1.47 | 4.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Isopropylbenzene | < 0.29 | ug/l | 0.29 | 0.93 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| p-Isopropyltoluene | < 0.28 | ug/l | 0.28 | 0.91 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methylene chloride | < 0.94 | ug/l | 0.94 | 2.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methyl tert-butyl ether (MTBE) | < 0.82 | ug/l | 0.82 | 2.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Naphthalene | < 2.17 | ug/l | 2.17 | 6.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Propylbenzene | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.69 | ug/l | 0.69 | 2.21 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1,2-Tetrachloroethane | < 0.47 | ug/l | 0.47 | 1.48 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Tetrachloroethene | < 0.48 | ug/l | 0.48 | 1.52 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Toluene | < 0.67 | ug/l | 0.67 | 2.13 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trichlorobenzene | < 1.29 | ug/l | 1.29 | 4.1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,3-Trichlorobenzene | < 0.83 | ug/l | 0.83 | 2.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1-Trichloroethane | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2-Trichloroethane | < 0.65 | ug/l | 0.65 | 2.06 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichloroethene (TCE) | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichlorofluoromethane | < 0.64 | ug/l | 0.64 | 2.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trimethylbenzene | < 1.14 | ug/l | 1.14 | 3.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033B
**Sample ID** 6351-MW-4
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | < 0.91 | ug/l | 0.91 | 2.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Vinyl Chloride | 0.77 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| m&p-Xylene | < 1.56 | ug/l | 1.56 | 4.95 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| o-Xylene | < 0.39 | ug/l | 0.39 | 1.25 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Toluene-d8 | 97 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 1,2-Dichloroethane-d4 | 103 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 4-Bromofluorobenzene | 110 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Dibromofluoromethane | 108 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033C
**Sample ID** 6351-MW-2
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| Organic | | | | | | | | | | |
| VOC's | | | | | | | | | | |
| Benzene | < 0.17 | ug/l | 0.17 | 0.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromobenzene | < 0.43 | ug/l | 0.43 | 1.37 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromodichloromethane | < 0.31 | ug/l | 0.31 | 1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromoform | < 0.49 | ug/l | 0.49 | 1.56 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| tert-Butylbenzene | < 0.39 | ug/l | 0.39 | 1.23 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| sec-Butylbenzene | < 0.24 | ug/l | 0.24 | 0.76 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Butylbenzene | < 0.34 | ug/l | 0.34 | 1.08 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Carbon Tetrachloride | < 0.21 | ug/l | 0.21 | 0.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chlorobenzene | < 0.27 | ug/l | 0.27 | 0.86 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroethane | < 0.5 | ug/l | 0.5 | 1.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroform | < 0.96 | ug/l | 0.96 | 3.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloromethane | < 1.3 | ug/l | 1.3 | 4.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 2-Chlorotoluene | < 0.36 | ug/l | 0.36 | 1.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 4-Chlorotoluene | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dibromo-3-chloropropane | < 1.88 | ug/l | 1.88 | 5.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dibromochloromethane | < 0.45 | ug/l | 0.45 | 1.44 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,4-Dichlorobenzene | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichlorobenzene | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichlorobenzene | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dichlorodifluoromethane | < 0.38 | ug/l | 0.38 | 1.2 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloroethane | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethane | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethene | < 0.46 | ug/l | 0.46 | 1.47 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,2-Dichloroethene | < 0.41 | ug/l | 0.41 | 1.29 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,2-Dichloroethene | < 0.35 | ug/l | 0.35 | 1.12 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloropropane | < 0.39 | ug/l | 0.39 | 1.24 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichloropropane | < 0.49 | ug/l | 0.49 | 1.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,3-Dichloropropene | < 0.42 | ug/l | 0.42 | 1.33 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,3-Dichloropropene | < 0.21 | ug/l | 0.21 | 0.65 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Di-isopropyl ether | < 0.26 | ug/l | 0.26 | 0.83 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| EDB (1,2-Dibromoethane) | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Ethylbenzene | < 0.2 | ug/l | 0.2 | 0.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Hexachlorobutadiene | < 1.47 | ug/l | 1.47 | 4.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Isopropylbenzene | < 0.29 | ug/l | 0.29 | 0.93 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| p-Isopropyltoluene | < 0.28 | ug/l | 0.28 | 0.91 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methylene chloride | < 0.94 | ug/l | 0.94 | 2.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methyl tert-butyl ether (MTBE) | < 0.82 | ug/l | 0.82 | 2.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Naphthalene | < 2.17 | ug/l | 2.17 | 6.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Propylbenzene | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.69 | ug/l | 0.69 | 2.21 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1,2-Tetrachloroethane | < 0.47 | ug/l | 0.47 | 1.48 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Tetrachloroethene | 1.23 "J" | ug/l | 0.48 | 1.52 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Toluene | < 0.67 | ug/l | 0.67 | 2.13 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trichlorobenzene | < 1.29 | ug/l | 1.29 | 4.1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,3-Trichlorobenzene | < 0.83 | ug/l | 0.83 | 2.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1-Trichloroethane | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2-Trichloroethane | < 0.65 | ug/l | 0.65 | 2.06 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichloroethene (TCE) | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichlorofluoromethane | < 0.64 | ug/l | 0.64 | 2.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trimethylbenzene | < 1.14 | ug/l | 1.14 | 3.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033C
**Sample ID** 6351-MW-2
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | < 0.91 | ug/l | 0.91 | 2.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Vinyl Chloride | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| m&p-Xylene | < 1.56 | ug/l | 1.56 | 4.95 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| o-Xylene | < 0.39 | ug/l | 0.39 | 1.25 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Toluene-d8 | 97 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 1,2-Dichloroethane-d4 | 100 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 4-Bromofluorobenzene | 109 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Dibromofluoromethane | 106 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033D
**Sample ID** 6351-MW-1
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| Organic | | | | | | | | | | |
| VOC's | | | | | | | | | | |
| Benzene | < 0.17 | ug/l | 0.17 | 0.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromobenzene | < 0.43 | ug/l | 0.43 | 1.37 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromodichloromethane | < 0.31 | ug/l | 0.31 | 1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromoform | < 0.49 | ug/l | 0.49 | 1.56 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| tert-Butylbenzene | < 0.39 | ug/l | 0.39 | 1.23 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| sec-Butylbenzene | < 0.24 | ug/l | 0.24 | 0.76 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Butylbenzene | < 0.34 | ug/l | 0.34 | 1.08 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Carbon Tetrachloride | < 0.21 | ug/l | 0.21 | 0.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chlorobenzene | < 0.27 | ug/l | 0.27 | 0.86 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroethane | < 0.5 | ug/l | 0.5 | 1.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroform | < 0.96 | ug/l | 0.96 | 3.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloromethane | < 1.3 | ug/l | 1.3 | 4.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 2-Chlorotoluene | < 0.36 | ug/l | 0.36 | 1.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 4-Chlorotoluene | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dibromo-3-chloropropane | < 1.88 | ug/l | 1.88 | 5.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dibromochloromethane | < 0.45 | ug/l | 0.45 | 1.44 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,4-Dichlorobenzene | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichlorobenzene | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichlorobenzene | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dichlorodifluoromethane | < 0.38 | ug/l | 0.38 | 1.2 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloroethane | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethane | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethene | < 0.46 | ug/l | 0.46 | 1.47 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,2-Dichloroethene | < 0.41 | ug/l | 0.41 | 1.29 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,2-Dichloroethene | < 0.35 | ug/l | 0.35 | 1.12 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloropropane | < 0.39 | ug/l | 0.39 | 1.24 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichloropropane | < 0.49 | ug/l | 0.49 | 1.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,3-Dichloropropene | < 0.42 | ug/l | 0.42 | 1.33 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,3-Dichloropropene | < 0.21 | ug/l | 0.21 | 0.65 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Di-isopropyl ether | < 0.26 | ug/l | 0.26 | 0.83 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| EDB (1,2-Dibromoethane) | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Ethylbenzene | < 0.2 | ug/l | 0.2 | 0.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Hexachlorobutadiene | < 1.47 | ug/l | 1.47 | 4.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Isopropylbenzene | < 0.29 | ug/l | 0.29 | 0.93 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| p-Isopropyltoluene | < 0.28 | ug/l | 0.28 | 0.91 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methylene chloride | < 0.94 | ug/l | 0.94 | 2.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methyl tert-butyl ether (MTBE) | < 0.82 | ug/l | 0.82 | 2.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Naphthalene | < 2.17 | ug/l | 2.17 | 6.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Propylbenzene | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.69 | ug/l | 0.69 | 2.21 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1,2-Tetrachloroethane | < 0.47 | ug/l | 0.47 | 1.48 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Tetrachloroethene | 1.09 "J" | ug/l | 0.48 | 1.52 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Toluene | < 0.67 | ug/l | 0.67 | 2.13 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trichlorobenzene | < 1.29 | ug/l | 1.29 | 4.1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,3-Trichlorobenzene | < 0.83 | ug/l | 0.83 | 2.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1-Trichloroethane | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2-Trichloroethane | < 0.65 | ug/l | 0.65 | 2.06 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichloroethene (TCE) | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichlorofluoromethane | < 0.64 | ug/l | 0.64 | 2.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trimethylbenzene | < 1.14 | ug/l | 1.14 | 3.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033D
**Sample ID** 6351-MW-1
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | < 0.91 | ug/l | 0.91 | 2.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Vinyl Chloride | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| m&p-Xylene | < 1.56 | ug/l | 1.56 | 4.95 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| o-Xylene | < 0.39 | ug/l | 0.39 | 1.25 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Dibromofluoromethane | 108 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 1,2-Dichloroethane-d4 | 98 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 4-Bromofluorobenzene | 103 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Toluene-d8 | 94 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033E
**Sample ID** 6351-MW-5
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| Organic | | | | | | | | | | |
| VOC's | | | | | | | | | | |
| Benzene | < 0.17 | ug/l | 0.17 | 0.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromobenzene | < 0.43 | ug/l | 0.43 | 1.37 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromodichloromethane | < 0.31 | ug/l | 0.31 | 1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromoform | < 0.49 | ug/l | 0.49 | 1.56 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| tert-Butylbenzene | < 0.39 | ug/l | 0.39 | 1.23 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| sec-Butylbenzene | < 0.24 | ug/l | 0.24 | 0.76 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Butylbenzene | < 0.34 | ug/l | 0.34 | 1.08 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Carbon Tetrachloride | < 0.21 | ug/l | 0.21 | 0.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chlorobenzene | < 0.27 | ug/l | 0.27 | 0.86 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroethane | < 0.5 | ug/l | 0.5 | 1.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroform | < 0.96 | ug/l | 0.96 | 3.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloromethane | < 1.3 | ug/l | 1.3 | 4.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 2-Chlorotoluene | < 0.36 | ug/l | 0.36 | 1.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 4-Chlorotoluene | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dibromo-3-chloropropane | < 1.88 | ug/l | 1.88 | 5.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dibromochloromethane | < 0.45 | ug/l | 0.45 | 1.44 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,4-Dichlorobenzene | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichlorobenzene | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichlorobenzene | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dichlorodifluoromethane | < 0.38 | ug/l | 0.38 | 1.2 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloroethane | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethane | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethene | < 0.46 | ug/l | 0.46 | 1.47 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,2-Dichloroethene | < 0.41 | ug/l | 0.41 | 1.29 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,2-Dichloroethene | < 0.35 | ug/l | 0.35 | 1.12 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloropropane | < 0.39 | ug/l | 0.39 | 1.24 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichloropropane | < 0.49 | ug/l | 0.49 | 1.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,3-Dichloropropene | < 0.42 | ug/l | 0.42 | 1.33 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,3-Dichloropropene | < 0.21 | ug/l | 0.21 | 0.65 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Di-isopropyl ether | < 0.26 | ug/l | 0.26 | 0.83 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| EDB (1,2-Dibromoethane) | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Ethylbenzene | < 0.2 | ug/l | 0.2 | 0.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Hexachlorobutadiene | < 1.47 | ug/l | 1.47 | 4.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Isopropylbenzene | < 0.29 | ug/l | 0.29 | 0.93 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| p-Isopropyltoluene | < 0.28 | ug/l | 0.28 | 0.91 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methylene chloride | < 0.94 | ug/l | 0.94 | 2.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methyl tert-butyl ether (MTBE) | < 0.82 | ug/l | 0.82 | 2.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Naphthalene | < 2.17 | ug/l | 2.17 | 6.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Propylbenzene | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.69 | ug/l | 0.69 | 2.21 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1,2-Tetrachloroethane | < 0.47 | ug/l | 0.47 | 1.48 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Tetrachloroethene | 3.4 | ug/l | 0.48 | 1.52 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Toluene | < 0.67 | ug/l | 0.67 | 2.13 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trichlorobenzene | < 1.29 | ug/l | 1.29 | 4.1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,3-Trichlorobenzene | < 0.83 | ug/l | 0.83 | 2.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1-Trichloroethane | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2-Trichloroethane | < 0.65 | ug/l | 0.65 | 2.06 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichloroethene (TCE) | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichlorofluoromethane | < 0.64 | ug/l | 0.64 | 2.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trimethylbenzene | < 1.14 | ug/l | 1.14 | 3.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033E
**Sample ID** 6351-MW-5
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | < 0.91 | ug/l | 0.91 | 2.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Vinyl Chloride | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| m&p-Xylene | < 1.56 | ug/l | 1.56 | 4.95 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| o-Xylene | < 0.39 | ug/l | 0.39 | 1.25 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Toluene-d8 | 93 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 1,2-Dichloroethane-d4 | 110 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 4-Bromofluorobenzene | 105 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Dibromofluoromethane | 109 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033F
**Sample ID** 6351-EB-1
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| Organic | | | | | | | | | | |
| VOC's | | | | | | | | | | |
| Benzene | < 0.17 | ug/l | 0.17 | 0.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromobenzene | < 0.43 | ug/l | 0.43 | 1.37 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromodichloromethane | < 0.31 | ug/l | 0.31 | 1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromoform | < 0.49 | ug/l | 0.49 | 1.56 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| tert-Butylbenzene | < 0.39 | ug/l | 0.39 | 1.23 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| sec-Butylbenzene | < 0.24 | ug/l | 0.24 | 0.76 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Butylbenzene | < 0.34 | ug/l | 0.34 | 1.08 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Carbon Tetrachloride | < 0.21 | ug/l | 0.21 | 0.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chlorobenzene | < 0.27 | ug/l | 0.27 | 0.86 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroethane | < 0.5 | ug/l | 0.5 | 1.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroform | < 0.96 | ug/l | 0.96 | 3.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloromethane | < 1.3 | ug/l | 1.3 | 4.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 2-Chlorotoluene | < 0.36 | ug/l | 0.36 | 1.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 4-Chlorotoluene | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dibromo-3-chloropropane | < 1.88 | ug/l | 1.88 | 5.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dibromochloromethane | < 0.45 | ug/l | 0.45 | 1.44 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,4-Dichlorobenzene | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichlorobenzene | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichlorobenzene | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dichlorodifluoromethane | < 0.38 | ug/l | 0.38 | 1.2 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloroethane | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethane | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethene | < 0.46 | ug/l | 0.46 | 1.47 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,2-Dichloroethene | < 0.41 | ug/l | 0.41 | 1.29 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,2-Dichloroethene | < 0.35 | ug/l | 0.35 | 1.12 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloropropane | < 0.39 | ug/l | 0.39 | 1.24 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichloropropane | < 0.49 | ug/l | 0.49 | 1.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,3-Dichloropropene | < 0.42 | ug/l | 0.42 | 1.33 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,3-Dichloropropene | < 0.21 | ug/l | 0.21 | 0.65 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Di-isopropyl ether | < 0.26 | ug/l | 0.26 | 0.83 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| EDB (1,2-Dibromoethane) | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Ethylbenzene | < 0.2 | ug/l | 0.2 | 0.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Hexachlorobutadiene | < 1.47 | ug/l | 1.47 | 4.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Isopropylbenzene | < 0.29 | ug/l | 0.29 | 0.93 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| p-Isopropyltoluene | < 0.28 | ug/l | 0.28 | 0.91 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methylene chloride | < 0.94 | ug/l | 0.94 | 2.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methyl tert-butyl ether (MTBE) | < 0.82 | ug/l | 0.82 | 2.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Naphthalene | < 2.17 | ug/l | 2.17 | 6.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Propylbenzene | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.69 | ug/l | 0.69 | 2.21 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1,2-Tetrachloroethane | < 0.47 | ug/l | 0.47 | 1.48 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Tetrachloroethene | < 0.48 | ug/l | 0.48 | 1.52 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Toluene | < 0.67 | ug/l | 0.67 | 2.13 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trichlorobenzene | < 1.29 | ug/l | 1.29 | 4.1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,3-Trichlorobenzene | < 0.83 | ug/l | 0.83 | 2.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1-Trichloroethane | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2-Trichloroethane | < 0.65 | ug/l | 0.65 | 2.06 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichloroethene (TCE) | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichlorofluoromethane | < 0.64 | ug/l | 0.64 | 2.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trimethylbenzene | < 1.14 | ug/l | 1.14 | 3.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033F
**Sample ID** 6351-EB-1
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | < 0.91 | ug/l | 0.91 | 2.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Vinyl Chloride | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| m&p-Xylene | < 1.56 | ug/l | 1.56 | 4.95 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| o-Xylene | < 0.39 | ug/l | 0.39 | 1.25 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Toluene-d8 | 96 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 1,2-Dichloroethane-d4 | 103 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 4-Bromofluorobenzene | 106 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Dibromofluoromethane | 104 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033G
**Sample ID** 6351-DUP-1
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| Organic | | | | | | | | | | |
| VOC's | | | | | | | | | | |
| Benzene | < 0.17 | ug/l | 0.17 | 0.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromobenzene | < 0.43 | ug/l | 0.43 | 1.37 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromodichloromethane | < 0.31 | ug/l | 0.31 | 1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromoform | < 0.49 | ug/l | 0.49 | 1.56 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| tert-Butylbenzene | < 0.39 | ug/l | 0.39 | 1.23 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| sec-Butylbenzene | < 0.24 | ug/l | 0.24 | 0.76 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Butylbenzene | < 0.34 | ug/l | 0.34 | 1.08 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Carbon Tetrachloride | < 0.21 | ug/l | 0.21 | 0.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chlorobenzene | < 0.27 | ug/l | 0.27 | 0.86 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroethane | < 0.5 | ug/l | 0.5 | 1.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroform | < 0.96 | ug/l | 0.96 | 3.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloromethane | < 1.3 | ug/l | 1.3 | 4.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 2-Chlorotoluene | < 0.36 | ug/l | 0.36 | 1.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 4-Chlorotoluene | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dibromo-3-chloropropane | < 1.88 | ug/l | 1.88 | 5.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dibromochloromethane | < 0.45 | ug/l | 0.45 | 1.44 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,4-Dichlorobenzene | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichlorobenzene | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichlorobenzene | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dichlorodifluoromethane | < 0.38 | ug/l | 0.38 | 1.2 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloroethane | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethane | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethene | < 0.46 | ug/l | 0.46 | 1.47 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,2-Dichloroethene | < 0.41 | ug/l | 0.41 | 1.29 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,2-Dichloroethene | < 0.35 | ug/l | 0.35 | 1.12 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloropropane | < 0.39 | ug/l | 0.39 | 1.24 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichloropropane | < 0.49 | ug/l | 0.49 | 1.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,3-Dichloropropene | < 0.42 | ug/l | 0.42 | 1.33 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,3-Dichloropropene | < 0.21 | ug/l | 0.21 | 0.65 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Di-isopropyl ether | < 0.26 | ug/l | 0.26 | 0.83 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| EDB (1,2-Dibromoethane) | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Ethylbenzene | < 0.2 | ug/l | 0.2 | 0.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Hexachlorobutadiene | < 1.47 | ug/l | 1.47 | 4.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Isopropylbenzene | < 0.29 | ug/l | 0.29 | 0.93 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| p-Isopropyltoluene | < 0.28 | ug/l | 0.28 | 0.91 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methylene chloride | < 0.94 | ug/l | 0.94 | 2.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methyl tert-butyl ether (MTBE) | < 0.82 | ug/l | 0.82 | 2.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Naphthalene | < 2.17 | ug/l | 2.17 | 6.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Propylbenzene | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.69 | ug/l | 0.69 | 2.21 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1,2-Tetrachloroethane | < 0.47 | ug/l | 0.47 | 1.48 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Tetrachloroethene | 0.97 "J" | ug/l | 0.48 | 1.52 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Toluene | < 0.67 | ug/l | 0.67 | 2.13 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trichlorobenzene | < 1.29 | ug/l | 1.29 | 4.1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,3-Trichlorobenzene | < 0.83 | ug/l | 0.83 | 2.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1-Trichloroethane | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2-Trichloroethane | < 0.65 | ug/l | 0.65 | 2.06 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichloroethene (TCE) | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichlorofluoromethane | < 0.64 | ug/l | 0.64 | 2.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trimethylbenzene | < 1.14 | ug/l | 1.14 | 3.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033G
**Sample ID** 6351-DUP-1
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | < 0.91 | ug/l | 0.91 | 2.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Vinyl Chloride | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| m&p-Xylene | < 1.56 | ug/l | 1.56 | 4.95 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| o-Xylene | < 0.39 | ug/l | 0.39 | 1.25 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Toluene-d8 | 96 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 1,2-Dichloroethane-d4 | 100 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 4-Bromofluorobenzene | 104 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Dibromofluoromethane | 105 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033H
**Sample ID** 6351-TB
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| Organic | | | | | | | | | | |
| VOC's | | | | | | | | | | |
| Benzene | < 0.17 | ug/l | 0.17 | 0.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromobenzene | < 0.43 | ug/l | 0.43 | 1.37 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromodichloromethane | < 0.31 | ug/l | 0.31 | 1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Bromoform | < 0.49 | ug/l | 0.49 | 1.56 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| tert-Butylbenzene | < 0.39 | ug/l | 0.39 | 1.23 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| sec-Butylbenzene | < 0.24 | ug/l | 0.24 | 0.76 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Butylbenzene | < 0.34 | ug/l | 0.34 | 1.08 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Carbon Tetrachloride | < 0.21 | ug/l | 0.21 | 0.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chlorobenzene | < 0.27 | ug/l | 0.27 | 0.86 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroethane | < 0.5 | ug/l | 0.5 | 1.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloroform | < 0.96 | ug/l | 0.96 | 3.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Chloromethane | < 1.3 | ug/l | 1.3 | 4.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 2-Chlorotoluene | < 0.36 | ug/l | 0.36 | 1.15 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 4-Chlorotoluene | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dibromo-3-chloropropane | < 1.88 | ug/l | 1.88 | 5.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dibromochloromethane | < 0.45 | ug/l | 0.45 | 1.44 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,4-Dichlorobenzene | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichlorobenzene | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichlorobenzene | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Dichlorodifluoromethane | < 0.38 | ug/l | 0.38 | 1.2 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloroethane | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethane | < 0.42 | ug/l | 0.42 | 1.34 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1-Dichloroethene | < 0.46 | ug/l | 0.46 | 1.47 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,2-Dichloroethene | < 0.41 | ug/l | 0.41 | 1.29 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,2-Dichloroethene | < 0.35 | ug/l | 0.35 | 1.12 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2-Dichloropropane | < 0.39 | ug/l | 0.39 | 1.24 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,3-Dichloropropane | < 0.49 | ug/l | 0.49 | 1.55 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| trans-1,3-Dichloropropene | < 0.42 | ug/l | 0.42 | 1.33 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| cis-1,3-Dichloropropene | < 0.21 | ug/l | 0.21 | 0.65 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Di-isopropyl ether | < 0.26 | ug/l | 0.26 | 0.83 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| EDB (1,2-Dibromoethane) | < 0.34 | ug/l | 0.34 | 1.09 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Ethylbenzene | < 0.2 | ug/l | 0.2 | 0.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Hexachlorobutadiene | < 1.47 | ug/l | 1.47 | 4.68 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Isopropylbenzene | < 0.29 | ug/l | 0.29 | 0.93 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| p-Isopropyltoluene | < 0.28 | ug/l | 0.28 | 0.91 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methylene chloride | < 0.94 | ug/l | 0.94 | 2.98 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Methyl tert-butyl ether (MTBE) | < 0.82 | ug/l | 0.82 | 2.6 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Naphthalene | < 2.17 | ug/l | 2.17 | 6.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| n-Propylbenzene | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.69 | ug/l | 0.69 | 2.21 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1,2-Tetrachloroethane | < 0.47 | ug/l | 0.47 | 1.48 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Tetrachloroethene | < 0.48 | ug/l | 0.48 | 1.52 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Toluene | < 0.67 | ug/l | 0.67 | 2.13 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trichlorobenzene | < 1.29 | ug/l | 1.29 | 4.1 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,3-Trichlorobenzene | < 0.83 | ug/l | 0.83 | 2.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,1-Trichloroethane | < 0.35 | ug/l | 0.35 | 1.11 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,1,2-Trichloroethane | < 0.65 | ug/l | 0.65 | 2.06 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichloroethene (TCE) | < 0.45 | ug/l | 0.45 | 1.43 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Trichlorofluoromethane | < 0.64 | ug/l | 0.64 | 2.04 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| 1,2,4-Trimethylbenzene | < 1.14 | ug/l | 1.14 | 3.63 | 1 | 8260B | | 12/13/2017 | CJR | 1 |

**Project Name** WOODEN WASHTUB **Invoice #** E34033
**Project #** 6351 PO#2017-1820

**Lab Code** 5034033H
**Sample ID** 6351-TB
**Sample Matrix** Water
**Sample Date** 12/11/2017

| | Result | Unit | LOD | LOQ | Dil | Method | Ext Date | Run Date | Analyst | Code |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | < 0.91 | ug/l | 0.91 | 2.9 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| Vinyl Chloride | < 0.19 | ug/l | 0.19 | 0.62 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| m&p-Xylene | < 1.56 | ug/l | 1.56 | 4.95 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| o-Xylene | < 0.39 | ug/l | 0.39 | 1.25 | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Toluene-d8 | 96 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 1,2-Dichloroethane-d4 | 102 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - 4-Bromofluorobenzene | 106 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |
| SUR - Dibromofluoromethane | 105 | REC % | | | 1 | 8260B | | 12/13/2017 | CJR | 1 |

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

| *Code* | *Comment* |
|---|---|
| 1 | Laboratory QC within limits. |

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**

**CHAIN OF CUSTODY RECORD**

# Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # Nº 3303

Page 1 of 1

**Sample Handling Request**
____ Rush Analysis Date Required ____
**(Rushes accepted only with prior authorization)**
X Normal Turn Around

Lab I.D. #

Account No. : **Quote No.:**

Project #: 6351

Sampler: (signature)

Project (Name / Location): Wooden Washtub / 320 Pine St, Sheboygan Falls, WI

| | |
|---|---|
| Reports To: B. Kappen / R. Haverman | Invoice To: |
| Company Envirofornsics | Company |
| Address N16 W 23390 Stoneridge Dr. | Address |
| City State Zip Waukesha, WI 53188 | City State Zip |
| Phone 414-326-4411 | Phone |
| FAX 317-972-7675 | FAX |

**Analysis Requested** | **Other Analysis**

| Lab I.D. | Sample I.D. | Collection Date | Collection Time | Comp | Grab | Filtered Y/N | No. of Containers | Sample Type (Matrix)* | Preservation | DRO (Mod DRO Sep 95) | GRO (Mod GRO Sep 95) | LEAD | NITRATE/NITRITE | OIL & GREASE | PAH (EPA 8270) | PCB | PVOC (EPA 8021) | PVOC + NAPHTHALENE | SULFATE | TOTAL SUSPENDED SOLIDS | VOC DW (EPA 524.2) | VOC (EPA 8260) | 8-RCRA METALS | PID/FID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 503403SA | 6351-MW-3 | 12/11 | 1240 | | X | N | 3 | GW | HCL | | | | | | | | | | | | | X | | |
| B | 6351-MW-4 | 12/11 | 1325 | | X | N | 3 | GW | HCL | | | | | | | | | | | | | X | | |
| C | 6351-MW-2 | 12/11 | 1417 | | X | N | 3 | GW | HCL | | | | | | | | | | | | | X | | |
| D | 6351-MW-1 | 12/11 | 1500 | | X | N | 3 | GW | HCL | | | | | | | | | | | | | X | | |
| E | 6351-MW-5 | 12/11 | 1543 | | X | N | 3 | GW | HCL | | | | | | | | | | | | | X | | |
| F | 6351-EB-1 | 12/11 | 1547 | | X | N | 3 | GW | HCL | | | | | | | | | | | | | X | | |
| G | 6351-DUP-1 | 12/11 | | | X | N | 3 | GW | HCL | | | | | | | | | | | | | X | | |
| H | 6351-TB | 12/11 | | | X | N | 1 | GW | HCL | | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

PO# 2017_1820

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Gc

Temp. of Temp. Blank ____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ____ No

| Relinquished By: (sign) | Time | Date | Received By: (sign) | Time | Date |
|---|---|---|---|---|---|
| | 1604 | 12/12/17 | | | |
| | | | | | |
| | | | | | |

Received in Laboratory By: Time: 8:00 Date: 12/13/17

**EnvisionAir**
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

December 20, 2017

EnvisionAir Project Number: 2017-697
Client Project Name: 6351

Dear Mr. Kappen,

Please find the attached analytical report for the samples received December 4, 2017. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

**EnvisionAir**
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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2017-697

## Sample Summary

***Canister Pressure / Vacuum***

| Laboratory Sample Number: | Sample Description: | Matrix: | START Date Collected: | START Time Collected: | End Date Collected: | End Time Collected: | Date Received: | Time Received | Initial Field (in. Hg) | Final Field (in. Hg) | Lab Received (in. Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17-2663 | 6351-OA-1 | A | 11/28/17 | 9:15 | 11/28/17 | 17:12 | 12/4/17 | 12:25 | -29 | -1 | -1 |
| 17-2664 | 6351-IA-1 | A | 11/28/17 | 9:16 | 11/28/17 | 17:14 | 12/4/17 | 12:25 | -29 | -2 | -2 |
| 17-2665 | 6351-IA-B1 | A | 11/28/17 | 9:19 | 11/28/17 | 17:24 | 12/4/17 | 12:25 | -29 | -6 | -6 |
| 17-2666 | 6351-IA-B2 | A | 11/28/17 | 9:19 | 11/28/17 | 17:20 | 12/4/17 | 12:25 | -29 | -1 | -1 |
| 17-2667 | 6351-SSV1 | A | 11/28/17 | 13:16 | 11/28/17 | 13:21 | 12/4/17 | 12:25 | -29 | -2 | -2 |
| 17-2668 | 6351-SSV2 | A | 11/28/17 | 12:24 | 11/28/17 | 12:30 | 12/4/17 | 12:25 | -29 | -2 | -2 |
| 17-2669 | 6351-SSV3 | A | 11/28/17 | 12:45 | 11/28/17 | 12:50 | 12/4/17 | 12:25 | -29 | -4 | -4 |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2017-697

**Analytical Method:** TO-15
**Analytical Batch:** 120717AIR

**Client Sample ID:** 6351-OA-1
**Envision Sample Number:** 17-2663
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 11/28/17 9:15
**Sample Collection END Date/Time:** 11/28/17 17:12
**Sample Received Date/Time:** 12/4/17 12:25

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| 4-Ethyltoluene | < 492 | 492 | |
| 4-Methyl-2-pentanone (MIBK) | < 2050 | 2050 | |
| 1,1,1-Trichloroethane | < 546 | 546 | |
| 1,1,2,2-Tetrachloroethane | < 0.34 | 0.34 | 1 |
| 1,1,2-Trichloroethane | < 0.21 | 0.21 | 1 |
| 1,1-Dichloroethane | < 4.05 | 4.05 | |
| 1,1-Dichloroethene | < 198 | 198 | |
| 1,2,4-Trichlorobenzene | < 0.74 | 0.74 | |
| 1,2,4-Trimethylbenzene | < 4.92 | 4.92 | |
| 1,2-dibromoethane (EDB) | < 0.03 | 0.03 | 1 |
| 1,2-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,2-Dichloroethane | < 0.40 | 0.40 | |
| 1,2-Dichloropropane | < 0.46 | 0.46 | |
| 1,3,5-Trimethylbenzene | < 4.92 | 4.92 | |
| 1,3-Butadiene | < 0.22 | 0.22 | |
| 1,3-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,4-Dichlorobenzene | < 0.60 | 0.60 | |
| 1,4-Dioxane | < 1.80 | 1.80 | |
| 2-Butanone (MEK) | < 2950 | 2950 | |
| 2-Hexanone | < 20.5 | 20.5 | |
| Acetone | < 2380 | 2380 | |
| Benzene | < 1.60 | 1.60 | |
| Benzyl Chloride | < 0.41 | 0.41 | 1 |
| Bromodichloromethane | < 0.54 | 0.54 | 1 |
| Bromoform | < 10.3 | 10.3 | |
| Bromomethane | < 3.88 | 3.88 | |
| Carbon Disulfide | < 311 | 311 | |
| Carbon Tetrachloride | < 0.63 | 0.63 | |
| Chlorobenzene | < 23.0 | 23.0 | |
| Chloroethane | < 13.2 | 13.2 | |

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| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| Chloroform | < 0.83 | 0.83 | |
| Chloromethane | < 20.6 | 20.6 | |
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| cis-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Cyclohexane | < 5510 | 5510 | |
| Dibromochloromethane | < 0.85 | 0.85 | |
| Dichlorodifluoromethane | < 49.5 | 49.5 | |
| Ethyl Acetate | < 1800 | 1800 | |
| Ethylbenzene | < 8.68 | 8.68 | |
| Hexachloro-1,3-butadiene | < 1.07 | 1.07 | |
| Isooctane | < 467 | 467 | |
| m,p-Xylene | < 43.4 | 43.4 | |
| Methylene Chloride | < 41.7 | 41.7 | |
| Methyl-tert-butyl ether | < 36.1 | 36.1 | |
| N-Heptane | < 410 | 410 | |
| N-Hexane | < 176 | 176 | |
| o-Xylene | < 43.4 | 43.4 | |
| Propylene | < 172 | 172 | |
| Styrene | < 426 | 426 | |
| Tetrachloroethene | < 3.19 | 3.19 | |
| Tetrahydrofuran | < 295 | 295 | |
| Toluene | < 3770 | 3770 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| trans-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Trichlorofluoromethane | < 562 | 562 | |
| Vinyl Acetate | < 176 | 176 | |
| Vinyl Bromide | < 0.44 | 0.44 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 92% | | |
| Analysis Date/Time: | 12-7-17/19:35 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2017-697

**Analytical Method:** TO-15
**Analytical Batch:** 120717AIR

**Client Sample ID:** 6351-IA-1
**Envision Sample Number:** 17-2664
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 11/28/17 9:16
**Sample Collection END Date/Time:** 11/28/17 17:14
**Sample Received Date/Time:** 12/4/17 12:25

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| 4-Ethyltoluene | < 492 | 492 | |
| 4-Methyl-2-pentanone (MIBK) | < 2050 | 2050 | |
| 1,1,1-Trichloroethane | < 546 | 546 | |
| 1,1,2,2-Tetrachloroethane | < 0.34 | 0.34 | 1 |
| 1,1,2-Trichloroethane | < 0.21 | 0.21 | 1 |
| 1,1-Dichloroethane | < 4.05 | 4.05 | |
| 1,1-Dichloroethene | < 198 | 198 | |
| 1,2,4-Trichlorobenzene | < 0.74 | 0.74 | |
| 1,2,4-Trimethylbenzene | < 4.92 | 4.92 | |
| 1,2-dibromoethane (EDB) | < 0.03 | 0.03 | 1 |
| 1,2-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,2-Dichloroethane | < 0.40 | 0.40 | |
| 1,2-Dichloropropane | < 0.46 | 0.46 | |
| 1,3,5-Trimethylbenzene | < 4.92 | 4.92 | |
| 1,3-Butadiene | < 0.22 | 0.22 | |
| 1,3-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,4-Dichlorobenzene | < 0.60 | 0.60 | |
| 1,4-Dioxane | < 1.80 | 1.80 | |
| 2-Butanone (MEK) | < 2950 | 2950 | |
| 2-Hexanone | < 20.5 | 20.5 | |
| Acetone | < 2380 | 2380 | |
| Benzene | < 1.60 | 1.60 | |
| Benzyl Chloride | < 0.41 | 0.41 | 1 |
| Bromodichloromethane | < 0.54 | 0.54 | 1 |
| Bromoform | < 10.3 | 10.3 | |
| Bromomethane | < 3.88 | 3.88 | |
| Carbon Disulfide | < 311 | 311 | |
| Carbon Tetrachloride | < 0.63 | 0.63 | |
| Chlorobenzene | < 23.0 | 23.0 | |
| Chloroethane | < 13.2 | 13.2 | |

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| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| Chloroform | **1.22** | 0.83 | |
| Chloromethane | < 20.6 | 20.6 | |
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| cis-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Cyclohexane | < 5510 | 5510 | |
| Dibromochloromethane | < 0.85 | 0.85 | |
| Dichlorodifluoromethane | < 49.5 | 49.5 | |
| Ethyl Acetate | < 1800 | 1800 | |
| Ethylbenzene | < 8.68 | 8.68 | |
| Hexachloro-1,3-butadiene | < 1.07 | 1.07 | |
| Isooctane | < 467 | 467 | |
| m,p-Xylene | < 43.4 | 43.4 | |
| Methylene Chloride | < 41.7 | 41.7 | |
| Methyl-tert-butyl ether | < 36.1 | 36.1 | |
| N-Heptane | < 410 | 410 | |
| N-Hexane | < 176 | 176 | |
| o-Xylene | < 43.4 | 43.4 | |
| Propylene | < 172 | 172 | |
| Styrene | < 426 | 426 | |
| Tetrachloroethene | **58.7** | 3.19 | |
| Tetrahydrofuran | < 295 | 295 | |
| Toluene | < 3770 | 3770 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| trans-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Trichlorofluoromethane | < 562 | 562 | |
| Vinyl Acetate | < 176 | 176 | |
| Vinyl Bromide | < 0.44 | 0.44 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 100% | | |
| Analysis Date/Time: | 12-7-17/20:14 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2017-697

**Analytical Method:** TO-15
**Analytical Batch:** 120717AIR

**Client Sample ID:** 6351-IA-B1
**Envision Sample Number:** 17-2665
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 11/28/17 9:19
**Sample Collection END Date/Time:** 11/28/17 17:24
**Sample Received Date/Time:** 12/4/17 12:25

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| 4-Ethyltoluene | < 492 | 492 | |
| 4-Methyl-2-pentanone (MIBK) | < 2050 | 2050 | |
| 1,1,1-Trichloroethane | < 546 | 546 | |
| 1,1,2,2-Tetrachloroethane | < 0.34 | 0.34 | 1 |
| 1,1,2-Trichloroethane | < 0.21 | 0.21 | 1 |
| 1,1-Dichloroethane | < 4.05 | 4.05 | |
| 1,1-Dichloroethene | < 198 | 198 | |
| 1,2,4-Trichlorobenzene | < 0.74 | 0.74 | |
| 1,2,4-Trimethylbenzene | **9.34** | 4.92 | |
| 1,2-dibromoethane (EDB) | < 0.03 | 0.03 | 1 |
| 1,2-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,2-Dichloroethane | < 0.40 | 0.40 | |
| 1,2-Dichloropropane | < 0.46 | 0.46 | |
| 1,3,5-Trimethylbenzene | < 4.92 | 4.92 | |
| 1,3-Butadiene | < 0.22 | 0.22 | |
| 1,3-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,4-Dichlorobenzene | < 0.60 | 0.60 | |
| 1,4-Dioxane | < 1.80 | 1.80 | |
| 2-Butanone (MEK) | < 2950 | 2950 | |
| 2-Hexanone | < 20.5 | 20.5 | |
| Acetone | < 2380 | 2380 | |
| Benzene | **18.2** | 1.60 | |
| Benzyl Chloride | < 0.41 | 0.41 | 1 |
| Bromodichloromethane | < 0.54 | 0.54 | 1 |
| Bromoform | < 10.3 | 10.3 | |
| Bromomethane | < 3.88 | 3.88 | |
| Carbon Disulfide | < 311 | 311 | |
| Carbon Tetrachloride | < 0.63 | 0.63 | |
| Chlorobenzene | < 23.0 | 23.0 | |
| Chloroethane | < 13.2 | 13.2 | |

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| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| Chloroform | < 0.83 | 0.83 | |
| Chloromethane | < 20.6 | 20.6 | |
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| cis-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Cyclohexane | < 5510 | 5510 | |
| Dibromochloromethane | < 0.85 | 0.85 | |
| Dichlorodifluoromethane | < 49.5 | 49.5 | |
| Ethyl Acetate | < 1800 | 1800 | |
| Ethylbenzene | < 8.68 | 8.68 | |
| Hexachloro-1,3-butadiene | < 1.07 | 1.07 | |
| Isooctane | < 467 | 467 | |
| m,p-Xylene | **63.8** | 43.4 | |
| Methylene Chloride | < 41.7 | 41.7 | |
| Methyl-tert-butyl ether | < 36.1 | 36.1 | |
| N-Heptane | < 410 | 410 | |
| N-Hexane | < 176 | 176 | |
| o-Xylene | < 43.4 | 43.4 | |
| Propylene | < 172 | 172 | |
| Styrene | < 426 | 426 | |
| Tetrachloroethene | < 3.19 | 3.19 | |
| Tetrahydrofuran | < 295 | 295 | |
| Toluene | < 3770 | 3770 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| trans-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Trichlorofluoromethane | < 562 | 562 | |
| Vinyl Acetate | < 176 | 176 | |
| Vinyl Bromide | < 0.44 | 0.44 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 111% | | |
| Analysis Date/Time: | 12-7-17/20:52 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2017-697

**Analytical Method:** TO-15
**Analytical Batch:** 120717AIR

**Client Sample ID:** 6351-IA-B2

**Envision Sample Number:** 17-2666
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 11/28/17 9:19
**Sample Collection END Date/Time:** 11/28/17 17:20
**Sample Received Date/Time:** 12/4/17 12:25

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| 4-Ethyltoluene | < 492 | 492 | |
| 4-Methyl-2-pentanone (MIBK) | < 2050 | 2050 | |
| 1,1,1-Trichloroethane | < 546 | 546 | |
| 1,1,2,2-Tetrachloroethane | < 0.34 | 0.34 | 1 |
| 1,1,2-Trichloroethane | < 0.21 | 0.21 | 1 |
| 1,1-Dichloroethane | < 4.05 | 4.05 | |
| 1,1-Dichloroethene | < 198 | 198 | |
| 1,2,4-Trichlorobenzene | < 0.74 | 0.74 | |
| 1,2,4-Trimethylbenzene | **6.44** | 4.92 | |
| 1,2-dibromoethane (EDB) | < 0.03 | 0.03 | 1 |
| 1,2-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,2-Dichloroethane | < 0.40 | 0.40 | |
| 1,2-Dichloropropane | < 0.46 | 0.46 | |
| 1,3,5-Trimethylbenzene | < 4.92 | 4.92 | |
| 1,3-Butadiene | < 0.22 | 0.22 | |
| 1,3-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,4-Dichlorobenzene | < 0.60 | 0.60 | |
| 1,4-Dioxane | < 1.80 | 1.80 | |
| 2-Butanone (MEK) | < 2950 | 2950 | |
| 2-Hexanone | < 20.5 | 20.5 | |
| Acetone | < 2380 | 2380 | |
| Benzene | **3.45** | 1.60 | |
| Benzyl Chloride | < 0.41 | 0.41 | 1 |
| Bromodichloromethane | < 0.54 | 0.54 | 1 |
| Bromoform | < 10.3 | 10.3 | |
| Bromomethane | < 3.88 | 3.88 | |
| Carbon Disulfide | < 311 | 311 | |
| Carbon Tetrachloride | < 0.63 | 0.63 | |
| Chlorobenzene | < 23.0 | 23.0 | |
| Chloroethane | < 13.2 | 13.2 | |

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| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| Chloroform | < 0.83 | 0.83 | |
| Chloromethane | < 20.6 | 20.6 | |
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| cis-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Cyclohexane | < 5510 | 5510 | |
| Dibromochloromethane | < 0.85 | 0.85 | |
| Dichlorodifluoromethane | < 49.5 | 49.5 | |
| Ethyl Acetate | < 1800 | 1800 | |
| Ethylbenzene | < 8.68 | 8.68 | |
| Hexachloro-1,3-butadiene | < 1.07 | 1.07 | |
| Isooctane | < 467 | 467 | |
| m,p-Xylene | < 43.4 | 43.4 | |
| Methylene Chloride | < 41.7 | 41.7 | |
| Methyl-tert-butyl ether | < 36.1 | 36.1 | |
| N-Heptane | < 410 | 410 | |
| N-Hexane | < 176 | 176 | |
| o-Xylene | < 43.4 | 43.4 | |
| Propylene | < 172 | 172 | |
| Styrene | < 426 | 426 | |
| Tetrachloroethene | **135** | 3.19 | |
| Tetrahydrofuran | < 295 | 295 | |
| Toluene | < 3770 | 3770 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| trans-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Trichloroethene | **7.15** | 1.07 | |
| Trichlorofluoromethane | < 562 | 562 | |
| Vinyl Acetate | < 176 | 176 | |
| Vinyl Bromide | < 0.44 | 0.44 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 96% | | |
| Analysis Date/Time: | 12-7-17/21:31 | | |
| Analyst Initials | tjg | | |

**EnvisionAir**
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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2017-697

**Analytical Method:** TO-15
**Analytical Batch:** 121417AIR

**Client Sample ID:** 6351-SSV1
**Envision Sample Number:** 17-2667
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 11/28/17 13:16
**Sample Collection END Date/Time:** 11/28/17 13:21
**Sample Received Date/Time:** 12/4/17 12:25

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| 4-Ethyltoluene | < 492 | 492 | |
| 4-Methyl-2-pentanone (MIBK) | < 2050 | 2050 | |
| 1,1,1-Trichloroethane | < 546 | 546 | |
| 1,1,2,2-Tetrachloroethane | < 0.34 | 0.34 | 1 |
| 1,1,2-Trichloroethane | < 0.21 | 0.21 | 1 |
| 1,1-Dichloroethane | < 4.05 | 4.05 | |
| 1,1-Dichloroethene | < 198 | 198 | |
| 1,2,4-Trichlorobenzene | < 0.74 | 0.74 | |
| 1,2,4-Trimethylbenzene | < 4.92 | 4.92 | |
| 1,2-dibromoethane (EDB) | < 0.03 | 0.03 | 1 |
| 1,2-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,2-Dichloroethane | < 0.40 | 0.40 | |
| 1,2-Dichloropropane | < 0.46 | 0.46 | |
| 1,3,5-Trimethylbenzene | < 4.92 | 4.92 | |
| 1,3-Butadiene | < 0.22 | 0.22 | |
| 1,3-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,4-Dichlorobenzene | < 0.60 | 0.60 | |
| 1,4-Dioxane | < 1.80 | 1.80 | |
| 2-Butanone (MEK) | < 2950 | 2950 | |
| 2-Hexanone | < 20.5 | 20.5 | |
| Acetone | < 2380 | 2380 | |
| Benzene | < 1.60 | 1.60 | |
| Benzyl Chloride | < 0.41 | 0.41 | 1 |
| Bromodichloromethane | < 0.54 | 0.54 | 1 |
| Bromoform | < 10.3 | 10.3 | |
| Bromomethane | < 3.88 | 3.88 | |
| Carbon Disulfide | < 311 | 311 | |
| Carbon Tetrachloride | < 0.63 | 0.63 | |
| Chlorobenzene | < 23.0 | 23.0 | |
| Chloroethane | < 13.2 | 13.2 | |

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| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| Chloroform | < 0.83 | 0.83 | |
| Chloromethane | < 20.6 | 20.6 | |
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| cis-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Cyclohexane | < 5510 | 5510 | |
| Dibromochloromethane | < 0.85 | 0.85 | |
| Dichlorodifluoromethane | < 49.5 | 49.5 | |
| Ethyl Acetate | < 1800 | 1800 | |
| Ethylbenzene | < 8.68 | 8.68 | |
| Hexachloro-1,3-butadiene | < 1.07 | 1.07 | |
| Isooctane | < 467 | 467 | |
| m,p-Xylene | < 43.4 | 43.4 | |
| Methylene Chloride | < 41.7 | 41.7 | |
| Methyl-tert-butyl ether | < 36.1 | 36.1 | |
| N-Heptane | < 410 | 410 | |
| N-Hexane | < 176 | 176 | |
| o-Xylene | < 43.4 | 43.4 | |
| Propylene | < 172 | 172 | |
| Styrene | < 426 | 426 | |
| Tetrachloroethene | **11.7** | 3.19 | |
| Tetrahydrofuran | < 295 | 295 | |
| Toluene | < 3770 | 3770 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| trans-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Trichlorofluoromethane | < 562 | 562 | |
| Vinyl Acetate | < 176 | 176 | |
| Vinyl Bromide | < 0.44 | 0.44 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 94% | | |
| Analysis Date/Time: | 12-16-17/16:53 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2017-697

**Analytical Method:** TO-15
**Analytical Batch:** 121417AIR

**Client Sample ID:** 6351-SSV2
**Envision Sample Number:** 17-2668
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 11/28/17 12:24
**Sample Collection END Date/Time:** 11/28/17 12:30
**Sample Received Date/Time:** 12/4/17 12:25

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| 4-Ethyltoluene | < 492 | 492 | |
| 4-Methyl-2-pentanone (MIBK) | < 2050 | 2050 | |
| 1,1,1-Trichloroethane | < 546 | 546 | |
| 1,1,2,2-Tetrachloroethane | < 0.34 | 0.34 | 1 |
| 1,1,2-Trichloroethane | < 0.21 | 0.21 | 1 |
| 1,1-Dichloroethane | < 4.05 | 4.05 | |
| 1,1-Dichloroethene | < 198 | 198 | |
| 1,2,4-Trichlorobenzene | < 0.74 | 0.74 | |
| 1,2,4-Trimethylbenzene | **11.9** | 4.92 | |
| 1,2-dibromoethane (EDB) | < 0.03 | 0.03 | 1 |
| 1,2-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,2-Dichloroethane | < 0.40 | 0.40 | |
| 1,2-Dichloropropane | < 0.46 | 0.46 | |
| 1,3,5-Trimethylbenzene | **13.6** | 4.92 | |
| 1,3-Butadiene | < 0.22 | 0.22 | |
| 1,3-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,4-Dichlorobenzene | < 0.60 | 0.60 | |
| 1,4-Dioxane | < 1.80 | 1.80 | |
| 2-Butanone (MEK) | < 2950 | 2950 | |
| 2-Hexanone | < 20.5 | 20.5 | |
| Acetone | < 2380 | 2380 | |
| Benzene | < 1.60 | 1.60 | |
| Benzyl Chloride | < 0.41 | 0.41 | 1 |
| Bromodichloromethane | < 0.54 | 0.54 | 1 |
| Bromoform | < 10.3 | 10.3 | |
| Bromomethane | < 3.88 | 3.88 | |
| Carbon Disulfide | < 311 | 311 | |
| Carbon Tetrachloride | < 0.63 | 0.63 | |
| Chlorobenzene | < 23.0 | 23.0 | |
| Chloroethane | < 13.2 | 13.2 | |

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| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| Chloroform | < 0.83 | 0.83 | |
| Chloromethane | < 20.6 | 20.6 | |
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| cis-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Cyclohexane | < 5510 | 5510 | |
| Dibromochloromethane | < 0.85 | 0.85 | |
| Dichlorodifluoromethane | < 49.5 | 49.5 | |
| Ethyl Acetate | < 1800 | 1800 | |
| Ethylbenzene | < 8.68 | 8.68 | |
| Hexachloro-1,3-butadiene | < 1.07 | 1.07 | |
| Isooctane | < 467 | 467 | |
| m,p-Xylene | < 43.4 | 43.4 | |
| Methylene Chloride | < 41.7 | 41.7 | |
| Methyl-tert-butyl ether | < 36.1 | 36.1 | |
| N-Heptane | < 410 | 410 | |
| N-Hexane | < 176 | 176 | |
| o-Xylene | < 43.4 | 43.4 | |
| Propylene | < 172 | 172 | |
| Styrene | < 426 | 426 | |
| Tetrachloroethene | **8,930** | 319 | 2 |
| Tetrahydrofuran | < 295 | 295 | |
| Toluene | < 3770 | 3770 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| trans-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Trichloroethene | **3.44** | 1.07 | |
| Trichlorofluoromethane | < 562 | 562 | |
| Vinyl Acetate | < 176 | 176 | |
| Vinyl Bromide | < 0.44 | 0.44 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 98% | | |
| Analysis Date/Time: | 12-16-17/17:31 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2017-697

**Analytical Method:** TO-15
**Analytical Batch:** 121417AIR

**Client Sample ID:** 6351-SSV3
**Envision Sample Number:** 17-2669
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 11/28/17 12:45
**Sample Collection END Date/Time:** 11/28/17 12:50
**Sample Received Date/Time:** 12/4/17 12:25

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| 4-Ethyltoluene | < 492 | 492 | |
| 4-Methyl-2-pentanone (MIBK) | < 2050 | 2050 | |
| 1,1,1-Trichloroethane | < 546 | 546 | |
| 1,1,2,2-Tetrachloroethane | < 0.34 | 0.34 | 1 |
| 1,1,2-Trichloroethane | < 0.21 | 0.21 | 1 |
| 1,1-Dichloroethane | < 4.05 | 4.05 | |
| 1,1-Dichloroethene | < 198 | 198 | |
| 1,2,4-Trichlorobenzene | < 0.74 | 0.74 | |
| 1,2,4-Trimethylbenzene | **4.96** | 4.92 | |
| 1,2-dibromoethane (EDB) | < 0.03 | 0.03 | 1 |
| 1,2-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,2-Dichloroethane | < 0.40 | 0.40 | |
| 1,2-Dichloropropane | < 0.46 | 0.46 | |
| 1,3,5-Trimethylbenzene | < 4.92 | 4.92 | |
| 1,3-Butadiene | < 0.22 | 0.22 | |
| 1,3-Dichlorobenzene | < 60.1 | 60.1 | |
| 1,4-Dichlorobenzene | < 0.60 | 0.60 | |
| 1,4-Dioxane | < 1.80 | 1.80 | |
| 2-Butanone (MEK) | < 2950 | 2950 | |
| 2-Hexanone | < 20.5 | 20.5 | |
| Acetone | < 2380 | 2380 | |
| Benzene | **2.24** | 1.60 | |
| Benzyl Chloride | < 0.41 | 0.41 | 1 |
| Bromodichloromethane | < 0.54 | 0.54 | 1 |
| Bromoform | < 10.3 | 10.3 | |
| Bromomethane | < 3.88 | 3.88 | |
| Carbon Disulfide | < 311 | 311 | |
| Carbon Tetrachloride | < 0.63 | 0.63 | |
| Chlorobenzene | < 23.0 | 23.0 | |
| Chloroethane | < 13.2 | 13.2 | |

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| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| Chloroform | < 0.83 | 0.83 | |
| Chloromethane | < 20.6 | 20.6 | |
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| cis-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Cyclohexane | < 5510 | 5510 | |
| Dibromochloromethane | < 0.85 | 0.85 | |
| Dichlorodifluoromethane | < 49.5 | 49.5 | |
| Ethyl Acetate | < 1800 | 1800 | |
| Ethylbenzene | < 8.68 | 8.68 | |
| Hexachloro-1,3-butadiene | < 1.07 | 1.07 | |
| Isooctane | < 467 | 467 | |
| m,p-Xylene | < 43.4 | 43.4 | |
| Methylene Chloride | < 41.7 | 41.7 | |
| Methyl-tert-butyl ether | < 36.1 | 36.1 | |
| N-Heptane | < 410 | 410 | |
| N-Hexane | < 176 | 176 | |
| o-Xylene | < 43.4 | 43.4 | |
| Propylene | < 172 | 172 | |
| Styrene | < 426 | 426 | |
| Tetrachloroethene | **133** | 3.19 | |
| Tetrahydrofuran | < 295 | 295 | |
| Toluene | < 3770 | 3770 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| trans-1,3-Dichloropropene | < 4.54 | 4.54 | |
| Trichloroethene | **9.51** | 1.07 | |
| Trichlorofluoromethane | < 562 | 562 | |
| Vinyl Acetate | < 176 | 176 | |
| Vinyl Bromide | < 0.44 | 0.44 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 93% | | |
| Analysis Date/Time: | 12-16-17/18:09 | | |
| Analyst Initials | tjg | | |

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*Analytical Report*

## TO-15 Quality Control Data

**EnvisionAir Batch Number:** 120717AIR

| Method Blank (MB): | MB Results (ppbv) | Reporting Limit (ppbv) | Flags |
|---|---|---|---|
| 4-Ethyltoluene | < 100 | 100 | |
| 4-Methyl-2-pentanone (MIBK) | < 500 | 500 | |
| 1,1,1-Trichloroethane | < 100 | 100 | |
| 1,1,2,2-Tetrachloroethane | < 0.049 | 0.049 | 1 |
| 1,1,2-Trichloroethane | < 0.038 | 0.038 | 1 |
| 1,1-Dichloroethane | < 1 | 1 | |
| 1,1-Dichloroethene | < 50 | 50 | |
| 1,2,4-Trichlorobenzene | < 0.1 | 0.1 | |
| 1,2,4-Trimethylbenzene | < 1 | 1 | |
| 1,2-dibromoethane (EDB) | < 0.0041 | 0.0041 | 1 |
| 1,2-Dichlorobenzene | < 10 | 10 | |
| 1,2-Dichloroethane | < 0.1 | 0.1 | |
| 1,2-Dichloropropane | < 0.1 | 0.1 | |
| 1,3,5-Trimethylbenzene | < 1 | 1 | |
| 1,3-Butadiene | < 0.1 | 0.1 | |
| 1,3-Dichlorobenzene | < 10 | 10 | |
| 1,4-Dichlorobenzene | < 0.1 | 0.1 | |
| 1,4-Dioxane | < 0.5 | 0.5 | |
| 2-Butanone (MEK) | < 1000 | 1000 | |
| 2-Hexanone | < 5 | 5 | |
| Acetone | < 1000 | 1000 | |
| Benzene | < 0.5 | 0.5 | |
| Benzyl Chloride | < 0.08 | 0.08 | 1 |
| Bromodichloromethane | < 0.08 | 0.08 | 1 |
| Bromoform | < 1 | 1 | |
| Bromomethane | < 1 | 1 | |
| Carbon Disulfide | < 100 | 100 | |
| Carbon Tetrachloride | < 0.1 | 0.1 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| Chloroform | < 0.17 | 0.17 | |
| Chloromethane | < 10 | 10 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 1 | 1 | |
| Cyclohexane | < 1600 | 1600 | |
| Dibromochloromethane | < 0.1 | 0.1 | |
| Dichlorodifluoromethane | < 10 | 10 | |
| Ethyl Acetate | < 500 | 500 | |
| Ethylbenzene | < 2 | 2 | |
| Hexachloro-1,3-butadiene | < 0.1 | 0.1 | |
| Isooctane | < 100 | 100 | |
| m,p-Xylene | < 10 | 10 | |
| Methylene Chloride | < 12 | 12 | |
| Methyl-tert-butyl ether | < 10 | 10 | |
| N-Heptane | < 100 | 100 | |
| N-Hexane | < 50 | 50 | |
| o-Xylene | < 10 | 10 | |
| Propylene | < 100 | 100 | |
| Styrene | < 100 | 100 | |
| Tetrachloroethene | < 0.47 | 0.47 | |
| Tetrahydrofuran | < 100 | 100 | |

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*Analytical Report*

| Method Blank (MB): | MB Results (ppbv) | Reporting Limit (ppbv) | Flags |
|---|---|---|---|
| Toluene | < 1000 | 1000 | |
| trans-1,2-Dichloroethene | < 10 | 10 | |
| trans-1,3-Dichloropropene | < 1 | 1 | |
| Trichloroethene | < 0.2 | 0.2 | |
| Trichlorofluoromethane | < 100 | 100 | |
| Vinyl Acetate | < 50 | 50 | |
| Vinyl Bromide | < 0.1 | 0.1 | |
| Vinyl Chloride | < 0.5 | 0.5 | |
| 4-bromofluorobenzene (surrogate) | 87% | | |
| Analysis Date/Time: | 12-7-17/18:23 | | |
| Analyst Initials | tjg | | |

| LCS/LCSD | LCS Results (ppbv) | LCSD Results (ppbv) | LCS/D Conc(ppbv) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| Propylene | 10.6 | 9.63 | 10 | 106% | 96% | 9.6% | |
| Dichlorodifluoromethane | 8.48 | 8.44 | 10 | 85% | 84% | 0.5% | |
| Chloromethane | 9.25 | 9.49 | 10 | 93% | 95% | 2.6% | |
| Vinyl Chloride | 8.99 | 9.27 | 10 | 90% | 93% | 3.1% | |
| 1,3-Butadiene | 9.2 | 9.57 | 10 | 92% | 96% | 3.9% | |
| Bromomethane | 10.2 | 10.2 | 10 | 102% | 102% | 0.0% | |
| Chloroethane | 9.27 | 9.49 | 10 | 93% | 95% | 2.3% | |
| Vinyl Bromide | 10.3 | 10.1 | 10 | 103% | 101% | 2.0% | |
| Trichlorofluoromethane | 11.3 | 11.6 | 10 | 113% | 116% | 2.6% | |
| Acetone | 9.13 | 9.3 | 10 | 91% | 93% | 1.8% | |
| 1,1-Dichloroethene | 9.44 | 9.33 | 10 | 94% | 93% | 1.2% | |
| Methylene Chloride | 9.49 | 9.76 | 10 | 95% | 98% | 2.8% | |
| Carbon Disulfide | 9.93 | 10.3 | 10 | 99% | 103% | 3.7% | |
| trans-1,2-Dichloroethene | 10.7 | 10.7 | 10 | 107% | 107% | 0.0% | |
| Methyl-tert-butyl ether | 9.81 | 9.73 | 10 | 98% | 97% | 0.8% | |
| 1,1-Dichloroethane | 9.45 | 9.45 | 10 | 95% | 95% | 0.0% | |
| Vinyl Acetate | 9.51 | 10.1 | 10 | 95% | 101% | 6.0% | |
| N-Hexane | 8.46 | 8.5 | 10 | 85% | 85% | 0.5% | |
| 2-Butanone (MEK) | 8.89 | 8.57 | 10 | 89% | 86% | 3.7% | |
| cis-1,2-Dichloroethene | 9.41 | 9.5 | 10 | 94% | 95% | 1.0% | |
| Ethyl Acetate | 8.6 | 8.53 | 10 | 86% | 85% | 0.8% | |
| Chloroform | 10.7 | 10.8 | 10 | 107% | 108% | 0.9% | |
| Tetrahydrofuran | 8.17 | 9.11 | 10 | 82% | 91% | 10.9% | |
| 1,2-Dichloroethane | 9.66 | 9.96 | 10 | 97% | 100% | 3.1% | |
| 1,1,1-Trichloroethane | 10 | 10.4 | 10 | 100% | 104% | 3.9% | |
| Carbon Tetrachloride | 10.3 | 10.9 | 10 | 103% | 109% | 5.7% | |
| Benzene | 9.9 | 10.4 | 10 | 99% | 104% | 4.9% | |
| Cyclohexane | 8.66 | 8.89 | 10 | 87% | 89% | 2.6% | |
| 1,2-Dichloropropane | 9.49 | 9.78 | 10 | 95% | 98% | 3.0% | |
| Trichloroethene | 10.7 | 11.1 | 10 | 107% | 111% | 3.7% | |
| Bromodichloromethane | 10.2 | 10.5 | 10 | 102% | 105% | 2.9% | |
| 1,4-Dioxane | 8.17 | 8.09 | 10 | 82% | 81% | 1.0% | |
| Isooctane | 8.69 | 9.14 | 10 | 87% | 91% | 5.0% | |
| N-Heptane | 7.89 | 8.24 | 10 | 79% | 82% | 4.3% | |
| cis-1,3-Dichloropropene | 10.5 | 10.8 | 10 | 105% | 108% | 2.8% | |
| 4-Methyl-2-pentanone (MIBK) | 7.98 | 8.17 | 10 | 80% | 82% | 2.4% | |
| trans-1,3-Dichloropropene | 10.3 | 10.7 | 10 | 103% | 107% | 3.8% | |
| 1,1,2-Trichloroethane | 10.9 | 11.3 | 10 | 109% | 113% | 3.6% | |
| Toluene | 11.4 | 11.9 | 10 | 114% | 119% | 4.3% | |
| 2-Hexanone | 8.69 | 9.13 | 10 | 87% | 91% | 4.9% | |
| Dibromochloromethane | 9.67 | 10.1 | 10 | 97% | 101% | 4.4% | |
| 1,2-dibromoethane (EDB) | 9.28 | 9.75 | 10 | 93% | 98% | 4.9% | |
| Tetrachloroethene | 11 | 11.3 | 10 | 110% | 113% | 2.7% | |
| Chlorobenzene | 9.65 | 9.99 | 10 | 97% | 100% | 3.5% | |
| Ethylbenzene | 9.25 | 9.55 | 10 | 93% | 96% | 3.2% | |
| m,p-Xylene | 18.7 | 19 | 20 | 94% | 95% | 1.6% | |
| Bromoform | 10.6 | 11.1 | 10 | 106% | 111% | 4.6% | |

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*Analytical Report*

| LCS/LCSD | LCS Results (ppbv) | LCSD Results (ppbv) | LCS/D Conc(ppbv) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| Styrene | 10.3 | 10.6 | 10 | 103% | 106% | 2.9% | |
| 1,1,2,2-Tetrachloroethane | 8.75 | 9.08 | 10 | 88% | 91% | 3.7% | |
| o-Xylene | 10.5 | 10.9 | 10 | 105% | 109% | 3.7% | |
| 4-Ethyltoluene | 9.83 | 10.2 | 10 | 98% | 102% | 3.7% | |
| 1,3,5-Trimethylbenzene | 9.55 | 10.1 | 10 | 96% | 101% | 5.6% | |
| 1,2,4-Trimethylbenzene | 9.53 | 9.91 | 10 | 95% | 99% | 3.9% | |
| 1,3-Dichlorobenzene | 10.6 | 11.2 | 10 | 106% | 112% | 5.5% | |
| Benzyl Chloride | 9.37 | 9.48 | 10 | 94% | 95% | 1.2% | |
| 1,4-Dichlorobenzene | 11.1 | 11.8 | 10 | 111% | 118% | 6.1% | |
| 1,2-Dichlorobenzene | 10.6 | 11.3 | 10 | 106% | 113% | 6.4% | |
| 1,2,4-Trichlorobenzene | 10.2 | 9.88 | 10 | 102% | 99% | 3.2% | |
| Hexachloro-1,3-butadiene | 10.4 | 10.9 | 10 | 104% | 109% | 4.7% | |
| 4-bromofluorobenzene (surrogate) | 84% | 86% | | | | | |
| Analysis Date/Time: | 12-7-17/17:48 | 12-8-17/01:50 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |

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Fax: 317-351-0882
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*Analytical Report*

## TO-15 Quality Control Data

**EnvisionAir Batch Number:** 121417AIR

| Method Blank (MB): | MB Results (ppbv) | Reporting Limit (ppbv) | Flags |
|---|---|---|---|
| 4-Ethyltoluene | < 100 | 100 | |
| 4-Methyl-2-pentanone (MIBK) | < 500 | 500 | |
| 1,1,1-Trichloroethane | < 100 | 100 | |
| 1,1,2,2-Tetrachloroethane | < 0.049 | 0.049 | 1 |
| 1,1,2-Trichloroethane | < 0.038 | 0.038 | 1 |
| 1,1-Dichloroethane | < 1 | 1 | |
| 1,1-Dichloroethene | < 50 | 50 | |
| 1,2,4-Trichlorobenzene | < 0.1 | 0.1 | |
| 1,2,4-Trimethylbenzene | < 1 | 1 | |
| 1,2-dibromoethane (EDB) | < 0.0041 | 0.0041 | 1 |
| 1,2-Dichlorobenzene | < 10 | 10 | |
| 1,2-Dichloroethane | < 0.1 | 0.1 | |
| 1,2-Dichloropropane | < 0.1 | 0.1 | |
| 1,3,5-Trimethylbenzene | < 1 | 1 | |
| 1,3-Butadiene | < 0.1 | 0.1 | |
| 1,3-Dichlorobenzene | < 10 | 10 | |
| 1,4-Dichlorobenzene | < 0.1 | 0.1 | |
| 1,4-Dioxane | < 0.5 | 0.5 | |
| 2-Butanone (MEK) | < 1000 | 1000 | |
| 2-Hexanone | < 5 | 5 | |
| Acetone | < 1000 | 1000 | |
| Benzene | < 0.5 | 0.5 | |
| Benzyl Chloride | < 0.08 | 0.08 | 1 |
| Bromodichloromethane | < 0.08 | 0.08 | 1 |
| Bromoform | < 1 | 1 | |
| Bromomethane | < 1 | 1 | |
| Carbon Disulfide | < 100 | 100 | |
| Carbon Tetrachloride | < 0.1 | 0.1 | |
| Chlorobenzene | < 5 | 5 | |
| Chloroethane | < 5 | 5 | |
| Chloroform | < 0.17 | 0.17 | |
| Chloromethane | < 10 | 10 | |
| cis-1,2-Dichloroethene | < 5 | 5 | |
| cis-1,3-Dichloropropene | < 1 | 1 | |
| Cyclohexane | < 1600 | 1600 | |
| Dibromochloromethane | < 0.1 | 0.1 | |
| Dichlorodifluoromethane | < 10 | 10 | |
| Ethyl Acetate | < 500 | 500 | |
| Ethylbenzene | < 2 | 2 | |
| Hexachloro-1,3-butadiene | < 0.1 | 0.1 | |
| Isooctane | < 100 | 100 | |
| m,p-Xylene | < 10 | 10 | |
| Methylene Chloride | < 12 | 12 | |
| Methyl-tert-butyl ether | < 10 | 10 | |
| N-Heptane | < 100 | 100 | |
| N-Hexane | < 50 | 50 | |
| o-Xylene | < 10 | 10 | |
| Propylene | < 100 | 100 | |
| Styrene | < 100 | 100 | |
| Tetrachloroethene | < 0.47 | 0.47 | |
| Tetrahydrofuran | < 100 | 100 | |

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*Analytical Report*

| Method Blank (MB): | MB Results (ppbv) | Reporting Limit (ppbv) | Flags |
|---|---|---|---|
| Toluene | < 1000 | 1000 | |
| trans-1,2-Dichloroethene | < 10 | 10 | |
| trans-1,3-Dichloropropene | < 1 | 1 | |
| Trichloroethene | < 0.2 | 0.2 | |
| Trichlorofluoromethane | < 100 | 100 | |
| Vinyl Acetate | < 50 | 50 | |
| Vinyl Bromide | < 0.1 | 0.1 | |
| Vinyl Chloride | < 0.5 | 0.5 | |
| 4-bromofluorobenzene (surrogate) | 88% | | |
| Analysis Date/Time: | 12-16-17/03:59 | | |
| Analyst Initials | tjg | | |

| LCS/LCSD | LCS Results (ppbv) | LCSD Results (ppbv) | LCS/D Conc(ppbv) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| Propylene | 9.46 | 9.18 | 10 | 95% | 92% | 3.0% | |
| Dichlorodifluoromethane | 9.52 | 9.64 | 10 | 95% | 96% | 1.3% | |
| Chloromethane | 11.2 | 9.31 | 10 | 112% | 93% | 18.4% | |
| Vinyl Chloride | 10.4 | 9.45 | 10 | 104% | 95% | 9.6% | |
| 1,3-Butadiene | 10.5 | 10.1 | 10 | 105% | 101% | 3.9% | |
| Bromomethane | 10.1 | 10.4 | 10 | 101% | 104% | 2.9% | |
| Chloroethane | 10.6 | 10.1 | 10 | 106% | 101% | 4.8% | |
| Vinyl Bromide | 9.99 | 10.5 | 10 | 100% | 105% | 5.0% | |
| Trichlorofluoromethane | 8.49 | 8.32 | 10 | 85% | 83% | 2.0% | |
| Acetone | 11.5 | 11.8 | 10 | 115% | 118% | 2.6% | |
| 1,1-Dichloroethene | 9.42 | 10.2 | 10 | 94% | 102% | 8.0% | |
| Methylene Chloride | 8.47 | 8.75 | 10 | 85% | 88% | 3.3% | |
| Carbon Disulfide | 8.36 | 9.01 | 10 | 84% | 90% | 7.5% | |
| trans-1,2-Dichloroethene | 10.2 | 8.78 | 10 | 102% | 88% | 15.0% | |
| Methyl-tert-butyl ether | 9.35 | 9.99 | 10 | 94% | 100% | 6.6% | |
| 1,1-Dichloroethane | 8.91 | 9.62 | 10 | 89% | 96% | 7.7% | |
| Vinyl Acetate | 11.2 | 11.7 | 10 | 112% | 117% | 4.4% | |
| N-Hexane | 10.6 | 11.2 | 10 | 106% | 112% | 5.5% | |
| 2-Butanone (MEK) | 11.4 | 11.9 | 10 | 114% | 119% | 4.3% | |
| cis-1,2-Dichloroethene | 9.52 | 10.2 | 10 | 95% | 102% | 6.9% | |
| Ethyl Acetate | 11.1 | 11.5 | 10 | 111% | 115% | 3.5% | |
| Chloroform | 8.84 | 9.42 | 10 | 88% | 94% | 6.4% | |
| Tetrahydrofuran | 10.7 | 9.88 | 10 | 107% | 99% | 8.0% | |
| 1,2-Dichloroethane | 9.43 | 9.39 | 10 | 94% | 94% | 0.4% | |
| 1,1,1-Trichloroethane | 9.51 | 9.52 | 10 | 95% | 95% | 0.1% | |
| Carbon Tetrachloride | 9.48 | 9.61 | 10 | 95% | 96% | 1.4% | |
| Benzene | 9.61 | 9.76 | 10 | 96% | 98% | 1.5% | |
| Cyclohexane | 10.9 | 11 | 10 | 109% | 110% | 0.9% | |
| 1,2-Dichloropropane | 9.1 | 9.14 | 10 | 91% | 91% | 0.4% | |
| Trichloroethene | 9.15 | 9.32 | 10 | 92% | 93% | 1.8% | |
| Bromodichloromethane | 9.19 | 9.25 | 10 | 92% | 93% | 0.7% | |
| 1,4-Dioxane | 11.1 | 11.2 | 10 | 111% | 112% | 0.9% | |
| Isooctane | 10.1 | 9.48 | 10 | 101% | 95% | 6.3% | |
| N-Heptane | 11.5 | 11.6 | 10 | 115% | 116% | 0.9% | |
| cis-1,3-Dichloropropene | 9.1 | 9.19 | 10 | 91% | 92% | 1.0% | |
| 4-Methyl-2-pentanone (MIBK) | 10.7 | 10.2 | 10 | 107% | 102% | 4.8% | |
| trans-1,3-Dichloropropene | 8.95 | 9.15 | 10 | 90% | 92% | 2.2% | |
| 1,1,2-Trichloroethane | 8.3 | 8.57 | 10 | 83% | 86% | 3.2% | |
| Toluene | 8.62 | 8.58 | 10 | 86% | 86% | 0.5% | |
| 2-Hexanone | 11.5 | 11.5 | 10 | 115% | 115% | 0.0% | |
| Dibromochloromethane | 10.9 | 10.8 | 10 | 109% | 108% | 0.9% | |
| 1,2-dibromoethane (EDB) | 10.2 | 10 | 10 | 102% | 100% | 2.0% | |
| Tetrachloroethene | 9.77 | 10 | 10 | 98% | 100% | 2.3% | |
| Chlorobenzene | 9.89 | 9.81 | 10 | 99% | 98% | 0.8% | |
| Ethylbenzene | 11.3 | 11.1 | 10 | 113% | 111% | 1.8% | |
| m,p-Xylene | 22.4 | 22.5 | 20 | 112% | 113% | 0.4% | |
| Bromoform | 11 | 11 | 10 | 110% | 110% | 0.0% | |

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*Analytical Report*

| LCS/LCSD | LCS Results (ppbv) | LCSD Results (ppbv) | LCS/D Conc(ppbv) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| Styrene | 10 | 10.1 | 10 | 100% | 101% | 1.0% | |
| 1,1,2,2-Tetrachloroethane | 10.6 | 10.4 | 10 | 106% | 104% | 1.9% | |
| o-Xylene | 11.1 | 11 | 10 | 111% | 110% | 0.9% | |
| 4-Ethyltoluene | 10.8 | 10.7 | 10 | 108% | 107% | 0.9% | |
| 1,3,5-Trimethylbenzene | 10.5 | 10.2 | 10 | 105% | 102% | 2.9% | |
| 1,2,4-Trimethylbenzene | 10.3 | 10.2 | 10 | 103% | 102% | 1.0% | |
| 1,3-Dichlorobenzene | 8.58 | 8.45 | 10 | 86% | 85% | 1.5% | |
| Benzyl Chloride | 9.25 | 9.34 | 10 | 93% | 93% | 1.0% | |
| 1,4-Dichlorobenzene | 8.21 | 8.34 | 10 | 82% | 83% | 1.6% | |
| 1,2-Dichlorobenzene | 9.09 | 9.02 | 10 | 91% | 90% | 0.8% | |
| 1,2,4-Trichlorobenzene | 8.1 | 8.58 | 10 | 81% | 86% | 5.8% | |
| Hexachloro-1,3-butadiene | 8.25 | 8.47 | 10 | 83% | 85% | 2.6% | |
| 4-bromofluorobenzene (surrogate) | 117% | 104% | | | | | |
| Analysis Date/Time: | 12-16-17/02:43 | 12-16-17/03:24 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |

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| Flag Number | Comments |
|---|---|
| 1 | Reporting limit is supported by MDL. TJG |
| 2 | Reported value is from a 100x dilution. TJG 12-19-17 |

EnvisionAir Proj#: 2017-697 Page 1 of 1

# CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

| | |
|---|---|
| Client: Enviroforensics | P.O. Number: 2017-1659 |
| Report Address: N16W23390 Stoneridge Pr Ste G Waukesha WI 53188 | Project Name or Number: 6351 |
| Report To: Brian Kappen | Sampled by: ND |
| Phone: 262-745-5054 | QA/QC Required: (circle if applicable) Level III Level IV |
| Invoice Address: Same | Reporting Units needed: (circle) ug/m³ mg/m³ PPBV PPMV |
| Desired TAT: (Please Circle One) 1 day 2 days 3 days ~~Std (5 bus. days)~~ | Media type: 1LC = 1 Liter Canister, 6LC = 6 Liter Canister, TB = Tedlar Bag, TD = Thermal Desorption Tube |

**REQUESTED PARAMETERS**

TO-15 Full List

TO-15 Short List

ENVISIONAIR

**Sampling Type:**
Soil-Gas: ☐
Sub-Slab: ☒
Indoor-Air: ☒

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*Canister Pressure / Vacuum*

| Air Sample ID | Media Type (see code above) | Coll. Date (Grab/Comp Start) | Coll. Time (Grab/Comp Start) | Coll. Date (Comp. End) | Coll. Time (Comp. End) | TO-15 Full List | TO-15 Short List | | | Canister Serial # | Flow Controller Serial # | Initial Field (in. Hg) | Final Field (in. Hg) | Lab Received (in. Hg) | EnvisionAir Sample Number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6351 OA-1 | 6LC | 11-28-17 | 9:15 | 11-28-17 | 17:12 | X | | | | 92143 | 02445 | -29 | -1 | -1 | 17-2663 |
| 6351 IA-1 | 6LC | 11-28-17 | 9:16 | 11-28-17 | 17:14 | X | | | | 15559 | 05300 | -29 | -2 | -2 | 17-2664 |
| 6351 IA-B1 | 6LC | 11-28-17 | 9:19 | 11-28-17 | 17:24 | X | | | | 11086 | 07442 | -29 | -6 | -6 | 17-2665 |
| 6351 IA-B2 | 6LC | 11-28-17 | 9:19 | 11-28-17 | 17:20 | X | | | | 91604 | 07434 | -29 | -1 | -1 | 17-2666 |
| 6351-SSV1 | 1LC | 11-28-17 | 13:16 | 11-28-17 | 13:21 | X | | | | 2228 | 0020 | -29 | -2 | -2 | 17-2667 |
| 6351-SSV2 | 1LC | 11-28-17 | 12:24 | 11-28-17 | 12:30 | X | | | | 2227 | 0091 | -29 | -2 | -2 | 17-2668 |
| 6351-SSV3 | 1LC | 11-28-17 | 12:~~50~~ 45 | 11-28-17 | 12:50 | X | | | | 94054 | 0064 | -29 | -4 | -4 | 17-2669 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| [signature] | 11/29/17 | | FedEx [signature] | | |
| | | | | 12/4/17 | 1225 |

**EnvisionAir**
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Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

February 9, 2018

EnvisionAir Project Number: 2018-61
Client Project Name: 6351

Dear Mr. Fassbender,

Please find the attached analytical report for the samples received January 31, 2018. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

**EnvisionAir**
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Fax: 317-351-0882
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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2018-61

## Sample Summary

***Canister Pressure / Vacuum***

| Laboratory Sample Number: | Sample Description: | Matrix: | START Date Collected: | START Time Collected: | End Date Collected: | End Time Collected: | Date Received: | Time Received | Initial Field (in. Hg) | Final Field (in. Hg) | Lab Received (in. Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18-239 | 6351-OA-1 | A | 1/29/18 | 8:43 | 1/29/18 | 16:49 | 1/31/18 | 11:30 | -29 | -5 | -5 |
| 18-240 | 6351-IA-1 | A | 1/29/18 | 8:45 | 1/29/18 | 16:50 | 1/31/18 | 11:30 | -29 | -8 | -8 |
| 18-241 | 6351-IA-B-1 | A | 1/29/18 | 8:55 | 1/29/18 | 16:56 | 1/31/18 | 11:30 | -29 | -7 | -7 |
| 18-242 | 6351-IA-B-2 | A | 1/29/18 | 8:51 | 1/29/18 | 16:53 | 1/31/18 | 11:30 | -29 | -7 | -7 |
| 18-243 | 6351-SSV-1 | A | 1/29/18 | 10:27 | 1/29/18 | 10:29 | 1/31/18 | 11:30 | -13 | -2 | -2 |
| 18-244 | 6351-SSV-2 | A | 1/29/18 | 10:10 | 1/29/18 | 10:15 | 1/31/18 | 11:30 | -29 | -2 | -2 |
| 18-245 | 6351-SSV-3 | A | 1/29/18 | 10:01 | 1/29/18 | 10:06 | 1/31/18 | 11:30 | -28 | -2 | -2 |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2018-61

**Analytical Method:** TO-15
**Analytical Batch:** 020618AIR

**Client Sample ID:** 6351-OA-1
**Envision Sample Number:** 18-239
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 1/29/18 8:43
**Sample Collection END Date/Time:** 1/29/18 16:49
**Sample Received Date/Time:** 1/31/18 11:30

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | < 3.19 | 3.19 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 101% | | |
| Analysis Date/Time: | 2-6-18/18:24 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2018-61

**Analytical Method:** TO-15
**Analytical Batch:** 020618AIR

**Client Sample ID:** 6351-IA-1
**Envision Sample Number:** 18-240
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 1/29/18 8:45
**Sample Collection END Date/Time:** 1/29/18 16:50
**Sample Received Date/Time:** 1/31/18 11:30

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | **33.2** | 3.19 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | **1.40** | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 114% | | |
| Analysis Date/Time: | 2-6-18/21:29 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2018-61

**Analytical Method:** TO-15
**Analytical Batch:** 020618AIR

**Client Sample ID:** 6351-IA-B-1

**Envision Sample Number:** 18-241
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 1/29/18 8:55
**Sample Collection END Date/Time:** 1/29/18 16:56
**Sample Received Date/Time:** 1/31/18 11:30

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | < 3.19 | 3.19 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 109% | | |
| Analysis Date/Time: | 2-6-18/22:08 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2018-61

**Analytical Method:** TO-15
**Analytical Batch:** 020618AIR

**Client Sample ID:** 6351-IA-B-2
**Envision Sample Number:** 18-242
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 1/29/18 8:51
**Sample Collection END Date/Time:** 1/29/18 16:53
**Sample Received Date/Time:** 1/31/18 11:30

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | **77.1** | 3.19 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | **3.39** | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 109% | | |
| Analysis Date/Time: | 2-6-18/22:47 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2018-61

**Analytical Method:** TO-15
**Analytical Batch:** 020618AIR

**Client Sample ID:** 6351-SSV-1
**Envision Sample Number:** 18-243
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 1/29/18 10:27
**Sample Collection END Date/Time:** 1/29/18 10:29
**Sample Received Date/Time:** 1/31/18 11:30

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | **5.36** | 3.19 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 111% | | |
| Analysis Date/Time: | 2-7-18/07:43 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2018-61

**Analytical Method:** TO-15
**Analytical Batch:** 020618AIR

**Client Sample ID:** 6351-SSV-2

**Envision Sample Number:** 18-244
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 1/29/18 10:10
**Sample Collection END Date/Time:** 1/29/18 10:15
**Sample Received Date/Time:** 1/31/18 11:30

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | **621** | 31.9 | 1 |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | **2.96** | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 111% | | |
| Analysis Date/Time: | 2-7-18/08:20 | | |
| Analyst Initials | tjg | | |

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**Client Name:** ENVIROFORENSICS

**Project ID:** 6351

**Client Project Manager:** BRIAN KAPPEN

**EnvisionAir Project Number:** 2018-61

**Analytical Method:** TO-15
**Analytical Batch:** 020618AIR

**Client Sample ID:** 6351-SSV-3

**Envision Sample Number:** 18-245
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 1/29/18 10:01
**Sample Collection END Date/Time:** 1/29/18 10:06
**Sample Received Date/Time:** 1/31/18 11:30

| Compounds | Sample Results ug/m³ | Reporting Limit ug/m³ | Flag |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | **159** | 31.9 | 1 |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | **4.73** | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 112% | | |
| Analysis Date/Time: | 2-7-18/08:58 | | |
| Analyst Initials | tjg | | |

**EnvisionAir**
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

*Analytical Report*

## TO-15 Quality Control Data

**EnvisionAir Batch Number:** 020618AIR

| Method Blank (MB): | MB Results (ppbv) | Reporting Limit (ppbv) | Flags |
|---|---|---|---|
| cis-1,2-Dichloroethene | < 5 | 5 | |
| Tetrachloroethene | < 0.47 | 0.47 | |
| trans-1,2-Dichloroethene | < 10 | 10 | |
| Trichlorethene | < 0.2 | 0.2 | |
| Vinyl Chloride | < 0.5 | 0.5 | |
| 4-bromofluorobenzene (surrogate) | 92% | | |
| Analysis Date/Time: | 2-4-18/17:14 | | |
| Analyst Initials | tjg | | |

| LCS/LCSD | LCS Results (ppbv) | LCSD Results (ppbv) | LCS/D Conc(ppbv) | LCS Rec. | LCSD Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 10 | 11.4 | 10 | 100% | 114% | 13.1% | |
| trans-1,2-Dichloroethene | 9.07 | 9.09 | 10 | 91% | 91% | 0.2% | |
| cis-1,2-Dichloroethene | 9.74 | 9.57 | 10 | 97% | 96% | 1.8% | |
| Trichloroethene | 10.1 | 10.7 | 10 | 101% | 107% | 5.8% | |
| Tetrachloroethene | 10.3 | 10.9 | 10 | 103% | 109% | 5.7% | |
| 4-bromofluorobenzene (surrogate) | 113% | 115% | | | | | |
| Analysis Date/Time: | 2-4-18/15:59 | 2-4-18/16:39 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |

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| Flag Number | Comments |
|---|---|
| 1 | Reported value is from a 10x dilution. TJG 2/8/18 |

EnvisionAir Proj#: 2018-61 Page 1 of 1 BJK

# CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

| | |
|---|---|
| Client: Enviroforensics LLC | P.O. Number: 2018-0082 |
| Report Address: N16 W23390 Stoneridge Dr. Waukesha, WI 53188 | Project Name or Number: 6351 |
| Report To: B. Kappen | Sampled by: Nate Onda |
| Phone: 414-326-4412 | QA/QC Required: (circle if applicable) Level III Level IV |
| Invoice Address: same | Reporting Units needed: (circle) ug/m³ mg/m³ PPBV PPMV |
| Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days) | Media type: 1LC = 1 Liter Canister, 6LC = 6 Liter Canister, TB = Tedlar Bag, TD = Thermal Desorption Tube |

**REQUESTED PARAMETERS**

TO-15 Full List | TO-15 Short List

ENVISIONAIR

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**Sampling Type:**
Soil-Gas: ☐
Sub-Slab: ☒
Indoor-Air: ☒

*Canister Pressure / Vacuum*

| Air Sample ID | Media Type (see code above) | Coll. Date (Grab/Comp Start) | Coll. Time (Grab/Comp Start) | Coll. Date (Comp. End) | Coll. Time (Comp. End) | | | | | Canister Serial # | Flow Controller Serial # | Initial Field (in. Hg) | Final Field (in. Hg) | Lab Received (in. Hg) | EnvisionAir Sample Number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6351-OA-1 | 6LC | 01/29/18 | 8:43 | 01/29/18 | 1649 | | X | | | 11088 | 05254 | -29 | -5 | -5 | 18-239 |
| 6351-IA-1 | 6LC | 01/29/18 | 8:45 | 01/29/18 | 1650 | | X | | | 11089 | 02225 | -29 | -8 | -8 | 18-240 |
| 6351-IA-B1 | 6LC | 01/29/18 | 8:55 | 01/29/18 | 1656 | | X | | | 14113 | 07310 | -29 | -7 | -7 | 18-241 |
| 6351-IA-B-2 | 6LC | 01/29/18 | 8:51 | 01/29/18 | 1653 | | X | | | A8052 | 04649 | -29 | -7 | -7 | 18-242 |
| 6351-SSV-1 | 1LC | 01/29/18 | 10:27 | 01/29/18 | 10:29 | | X | | | 83834 | 0046 | -13 | -2 | -2 | 18-243 |
| 6351-SSV-2 | 1LC | 01/29/18 | 10:10 | 01/29/18 | 10:15 | | X | | | 84045 | 0025 | -29 | -2 | -2 | 18-244 |
| 6351-SSV-3 | 1LC | 01/29/18 | 10:01 | 01/29/18 | 10:06 | | X | | | 83920 | 0065 | -28 | -2 | -2 | 18-245 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | | | FedEx | | |
| | | | Jason Hunnicutt | 1/31/18 | 1130 |