PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

January 12, 2021 ***Submitted via Email***

Ms. Sheri Bianchin
Remedial Project Manager
USEPA Region V
77 W. Jackson Blvd.
Mail Code SR-6J
Chicago, IL 60604-3507

Re: 2020 Annual Groundwater Monitoring Report
Granville Solvents Inc. Site; Granville, Ohio
CERCLIS Site ID # OHD004495412

Dear Ms. Bianchin:

On behalf of the Granville Solvents Site Response Management Group, LLC (Group), Progressive Engineering & Construction Inc. (Progressive) is pleased to provide the attached 2020 Annual Groundwater Monitoring Report for the Granville Solvents Inc. Site (Site). The report provides a detailed summary of the work performed in 2020 and current Site conditions including sampling results, analysis of trends, and conclusions/recommendations. Please contact me at (813)930-0669 ext. 205 or bmorello@progressiveec.com if you have any questions.

Sincerely,
Progressive Engineering & Construction, Inc.

Bridget S. Morello

Bridget S. Morello, P.E.
Principal Engineer / Project Coordinator

cc:
Ray Moreno, OEPA
Larry Fruth, VOG Water Department
Herb Koehler, VOG Manager

12402 NORTH 56TH STREET, TAMPA, FLORIDA 33617 TEL. 813-930-0669 FAX. 813-930-9809 www.progressiveec.com

2020 Annual Groundwater Monitoring Report

Granville Solvents Inc. Site

Granville, Ohio

Prepared for

Granville Solvents, Inc. Site Response Management Group, LLC

January 12, 2021

Prepared by

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.
12402 North 56th Street
Tampa, Florida 33617
Tel. (813)930-0669
Fax. (813)930-9809
www.progressiveec.com

TABLE OF CONTENTS

Page

1. INTRODUCTION 1
   1.1 Site Background 1
   1.2 Site Hydrogeology 2

2. SUMMARY OF WORK IN 2020 4
   2.1 Groundwater Monitoring 4
   2.2 Property Transfer and Environmental Covenant 5
   2.3 Long-Term Stewardship (LTS) Plan 5

3. RESULTS 6
   3.1 Hydraulic Monitoring Results 6
   3.2 Groundwater Quality Results 7
      3.2.1 Compliance Wells 7
      3.2.2 Leading Edge Wells 7
      3.2.3 Source Area and Off-Site Wells 8
   3.3 Data Validation 9

4. CONCLUSIONS/RECOMMENDATIONS 10

5. REFERENCES 12

TABLES

1. Groundwater Monitoring Plan - 2020
2. Groundwater Elevations
3. Groundwater Sampling Results – 2020
4. Summary of Historical Groundwater Analytical Results
5. Groundwater Monitoring Plan - Proposed

FIGURES

1. Site Map
2. Groundwater Elevation Contours, Shallow Zone – November 2020
3. Groundwater Elevation Contours, Intermediate Zone – November 2020
4. Groundwater Elevation Contours, Deep Zone – November 2020
5. TCE Iso-concentration Map 2020
6. PCE Iso-concentration Map 2020
7. MW-08(S) Leading Edge Well with VOG PW Online at Sample Collection

APPENDICES

A. Groundwater Sampling Logs
B. Water Quality Laboratory Analytical Reports
C. Updated Contact List
D. Trend Graphs
E. Data Validation Reports

1. INTRODUCTION

Progressive Engineering & Construction, Inc. (Progressive) prepared this 2020 Annual Groundwater Monitoring Report (Report) to summarize activities performed at the Granville Solvents Site (Site) in Granville, Licking County, Ohio (Figure 1). The Report was prepared on behalf of the Granville Solvents Site Response Management Group, LLC (Group).

The Group performed the following work during 2020 pursuant to the Groundwater Monitoring Plan (GWMP) as described in the *2019 Groundwater Monitoring Report* (Progressive, 2020), and the *Quality Assurance Project Plan (QAPP) Addendum* (Progressive, 2017b):

- During the annual monitoring event in June 2020:
  - Water level measurements were collected at 28 monitoring wells, four Village of Granville (VOG) production wells, and three benchmarks along Raccoon Creek.
  - Groundwater samples were collected at 22 monitoring wells and four VOG production wells.

- Progressive submitted a *Project Update* letter (dated July 22, 2020, Progressive, 2020a) outlining the results of the June monitoring event.

- During the semi-annual monitoring event in November 2020:
  - Water level measurements were collected at 28 monitoring wells, four VOG production wells, and three benchmarks along Raccoon Creek.
  - Groundwater samples were collected at 12 monitoring wells.

In addition, and based on a change in ownership of the property, the Group executed an updated access agreement, facilitated recording of an Environmental Covenant (EC), and prepared a *Long-Term Stewardship Plan* (LTS Plan, Progressive, 2020b) for the Site.

1.1 Site Background

Groundwater performance monitoring is required at this Site under an Administrative Order on Consent (AOC) issued by the USEPA on September 7, 1994, and until a Notice of Completion is issued. United States Environmental Protection Agency (USEPA) is the lead regulatory agency for this Site and receives input/support from the Ohio EPA (OEPA).

Performance monitoring was originally defined in the *Proposal to Suspend Groundwater and Soil Treatment System Operation and Commence Post-Shutdown Groundwater Monitoring at the Granville Solvents Site*, (Metcalf and Eddy, 2004) and was subsequently modified by the *Post-Shutdown Contingency Plan* (Contingency Plan) (Bill

Brewer/Group Letter, 2005) dated January 31, 2005. The Contingency Plan was updated in the *Well Field Communication Plan* (WFCP, Progressive, 2018).

The AOC required completion of certain Removal Actions at the Site, as defined in Section V.2(e-g) of the AOC as follows:

1. Halt the migration of groundwater contamination (originating from the Site) toward the Village of Granville municipal wellfield.

2. Implement action which is necessary to ensure that any water impacted with chemicals of concern (originating from the Site) that enters the Village of Granville municipal wellfield drinking water supply meets all risk-based and all applicable federal and state drinking water standards.

3. Design, install, and operate a groundwater extraction and treatment system which shall halt the migration of impacted groundwater (originating from the Site) toward the Village of Granville municipal well field.

4. Treat the soils at the Site to levels which will ensure protection of human health and the environment.

The Group implemented the Removal Actions required by the AOC beginning in 1994. Site remedies included pump and treat (P&T), soil vapor extraction (SVE), and air sparging (AS). Active remediation ceased in 2005 following USEPA/OEPA approval. The Group has performed groundwater monitoring since shutdown, and developed a new closure strategy with input from all stakeholders in 2016-2017 involving routine monitoring and contingency measures as applicable. The current GWMP is presented as Table 1.

1.2 Site Hydrogeology

The Conceptual Site Model (CSM) was updated by Progressive in the *Summary Report for Groundwater and Soil Sampling* (Progressive, 2017a). Updating the CSM included a review of historical data/models, a review of the hydrogeologic setting, and stratigraphic evaluation of the geology of the Site and the surrounding vicinity. Historical geologic boring logs/descriptions were reviewed and the sequences of deposition were interpreted to create a conceptual model of the hydrogeology. Based on that evaluation:

- The Site stratigraphy is composed primarily of glacial till (compact gravelly clays deposited in ground moraines) and fluvial outwash (sand, gravel, and silts) deposits overlain by alluvium (dominated by silts).

- The glacial till deposits are consistent with deposition from west to east within the glacial valley, but the overlying alluvial sediments appear to have originated from the northeast as fan and fan-channel deposits that were transported southward during high flow runoff events.

- The shallow zone monitoring wells are screened within silty sands that represent the fan and fan-distributary channel deposits, whereas the deep monitoring wells are screened in the underlying glacial-fluvial outwash deposits. However, there are a significant number of intermediate depth wells that appear to be screened in either the uppermost part of the glacial outwash deposits or across both shallow and intermediate depth zones.

- All of the deep aquifer wells, and some of the intermediate depth wells, appear to show some degree of confined behavior likely due to the thick section of overlying fine-grained silts and clay. All aquifer zones flow westward in response to pumping of the VOG production wells. The shallow zone periodically shows some effects from recharge from Raccoon Creek when the elevation of the creek is higher than the water table in nearby monitoring wells.

2. SUMMARY OF WORK IN 2020

The work performed from January through June 2020 was summarized in the July *Project Update* letter. The work performed in July through December is documented herein. The November 2020 monitoring event was expanded to include a site-wide round of water level measurements (with no changes to water quality monitoring) at the request of the USEPA based on anomalous measurements collected in June 2020. The following sections provide a detailed summary of the 2020 Site work.

2.1 Groundwater Monitoring

Groundwater monitoring activities performed in 2020 included the following:

- Contingency sampling was performed in January and February 2020, based on results in November 2019 that triggered resampling. Contingency (repeat) sampling was performed at Leading Edge wells MW-07D(I) and MW-08(S), and companion well MW-08D(I) pursuant to the *WFCP* (Progressive, 2018). Results met the criteria for resumption of routine monitoring. Sampling details were presented in the July *Project Update* letter.

- A full round of water level gauging was performed prior to collecting the June and November 2020 groundwater samples. Groundwater levels were measured to the nearest 0.01 feet with respect to surveyed reference points marked on the riser casing of each well. The elevations of Raccoon Creek were measured from the surveyed locations along the creek. Water levels were obtained using an electrical water level tape in the wells and an optical level for the creek locations. The water table elevation data are presented in Table 2. Potentiometric surface maps for November 2020 are presented as Figures 2, 3, and 4.

- The integrity of all wells was also checked and noted during the 2020 monitoring events; no issues were observed.

- Groundwater sampling included the following per the approved GWMP: 22 Site wells in June 2020 including the Compliance Wells and Leading Edge Wells and four VOG production wells; and 12 wells in November 2020 including the Compliance Wells and Leading Edge Wells.

    - Groundwater well purging and sampling were conducted using low flow sampling techniques utilizing either a bladder pump or a peristaltic pump based on water levels in the wells. Sampling procedures are detailed in the QAPP Addendum (Progressive, 2017b). Sampling began once three sets of readings met the stabilization criteria. Groundwater sampling logs are presented in Appendix A.

    - All non-dedicated sampling equipment was decontaminated prior to purging and sample collection at each well.

- Quality Assurance/Quality Control (QA/QC) samples were collected at a frequency of 10% and included field duplicates, field/equipment blanks, and a frequency of 5% for matrix spike/matrix spike duplicate (MS/MSD) samples; trip blanks were collected at a frequency of one per sample cooler.

- All groundwater samples were packaged in coolers with ice and transmitted under chain of custody to Southern Research Laboratories, Inc. for analysis of volatile organic compounds (VOCs) by USEPA Method 8260B. Laboratory Analytical Reports are presented in Appendix B.

2.2 Property Transfer and Environmental Covenant

The parcels that comprise the Site were formerly owned by Granville Solvents, Inc., and title to those parcels was obtained by the Licking County Land Reutilization Corporation (a/k/a the Land Bank) via foreclosure. The Land Bank executed an Environmental Covenant for the Site with the Group, USEPA and OEPA (Instrument #202009230024844 recorded September 23, 2020), which among other things restricts the land to industrial/commercial use, prohibits groundwater use, ensures landowner protection and non-disturbance of Site remedial components, and requires the landowner to provide an annual certification to the Group, USEPA and OEPA of compliance with the Environmental Covenant. The Land Bank then transferred the Site parcels to Keith and Monique Keegan on October 1, 2020, subject to the restrictions in the Environmental Covenant via a recorded a quit claim deed (Instrument #202010080026609, recorded October 8, 2020). The Group entered a separate access agreement with the Keegans (effective October 1, 2020) to ensure proper coordination for the Group's ongoing work at the Site under the AOC, and to ensure the Site is maintained in good condition.

2.3 Long-Term Stewardship (LTS) Plan

The LTS Plan (dated September 30, 2020, Progressive, 2020b) outlines the long-term management of the Site remediation/monitoring, facilitates communication between the Site's various stakeholders, and ensures that Site access, remedial component integrity, and use restrictions remain effective to minimize the potential for human exposure to contamination. The LTS Plan was produced pursuant to Paragraph 5.f. of the Environmental Covenant for the Site. The updated contact list is presented in Appendix C.

3. RESULTS

A summary and evaluation of 2020 monitoring data is outlined below.

3.1 Hydraulic Monitoring Results

Table 3 provides a summary of water level data. Potentiometric surface maps for the shallow, intermediate, and deep zones of the Site aquifer are provided as Figures 2, 3, and 4 for the November 2020 hydraulic monitoring event. (Similar maps for June 2020 data were provided in the July *Project Update* letter). Based on the hydraulic data collected, Progressive offers the following interpretations:

- Groundwater flow direction in the vicinity of the Site is west toward the VOG production wells for the shallow, intermediate, and deep aquifer zones. This is consistent with the CSM. During monitoring in June, the VOG was pumping from PW-04 and in November the VOG was pumping from PW-03A, per personal communication with Mr. Larry Fruth, the Superintendent of the VOG Water Department (L. Fruth email, 12/14/2020).

- As per the July *Project Update* letter, hydraulic data and associated potentiometric surface maps from the June 2020 hydraulic monitoring event were determined to be atypical. Between May 18 and 23, 2020, approximately 4 inches of rain fell in the vicinity of the Site (according to USGS Station 03145483, Raccoon Creek near Granville, Ohio). This rainfall resulted in the flooding of Raccoon Creek with water covering the VOG well field (personal communication with VOG personnel).

- Historically, hydraulic gradients in the shallow, intermediate, and deep aquifer systems vary greatly depending upon the VOG production well use. When the VOG is using PW-03A and PW-04 to produce water, the hydraulic gradient across the site is an order of magnitude less than when PW-02 is in operation. This indicates that PW-02 has a greater influence over Site groundwater than PW-03A or PW-04.

    - Prior to 2016, the VOG used a pumping scheme that predominantly generated water from PW-04 with minimal input from PW-03A and PW-02. In fact, from 2010 to 2016, PW-02 provided ~15% of the VOG's water supply, and since 2017 PW-02 has provided ~30% of the water supply.

    - The VOG's current pumping scheme is as follows: PW-02 for a month, followed by PW-03A for a month, then PW-04 for a month, then repeat this cycle. Based on 2019 and 2020 results, when sampling in a month following the use of PW-02, there was a peak in cDCE in Leading Edge Well MW-08(S) and contingency sampling was triggered twice based on November 2019 and 2020 results. Figure 7 illustrates a trend graph of

MW-08(S) groundwater quality concentrations from 2017-2020 and notes the production well in operation during each event.

- During the November 2020 groundwater monitoring event, the Raccoon Creek water elevation was found to be approximately 2.5-ft higher than the groundwater elevation, indicating that Raccoon Creek was contributing water to the shallow aquifer system. Raccoon Creek water level elevations are presented on Table 2.

3.2 Groundwater Quality Results

Table 3 provides a summary of the groundwater analytical results for each well sampled in 2020. Figures 5 and 6 present the iso-concentration contours for the primary VOCs in Site groundwater based on most recent results, i.e., tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), trans-1,2-dichloroehtene (tDCE), and 1,1,1-trichloroethane (TCA). Historical groundwater quality data are shown on Table 4. Concentration trend graphs for selected monitoring wells are presented in Appendix D. The full analytical reports for groundwater testing with QA/QC documentation are provided in Appendix B, and data validation reports are provided in Appendix E.

3.2.1 Compliance Wells

Compliance Wells GSSMW-08(I), and GSSMW-09(I) are located west of the Site beyond the intermediate well GSSMW-15(I). The two Compliance Wells are screened at approximately 28 to 38 ft bls and appear to either terminate at the base of the upper fan channel fill deposits or span across this unit into the uppermost part of the deeper glacial outwash unit. All Compliance Wells were non-detect for all VOCs in 2020; VOCs have been historically not detected in these wells.

3.2.2 Leading Edge Wells

Leading Edge wells MW-07D(I) and MW-08(S) downgradient of the source area are screened between 26 and 38 ft bls. As noted in the July *Project Update* letter, contingency sampling was triggered for these wells in 2019 and completed in January and February 2020. In general, the 2020 sampling results for the Leading Edge Wells are consistent with the historical results and show stable concentrations of VOCs, as follows:

- VOCs have never been detected at Leading Edge Well MW-07D. However, the November 2020 groundwater sample had an estimated detection of cDCE (0.33 J ug/L) reported.

- Daughter products (cDCE and tDCE) have been historically detected at MW-08(S) and were also detected during the 2020 sampling events. In November 2020, the cDCE result (79 ug/L) was slightly above the MCL (70 ug/L). The exceedance of the MCL in Leading Edge Well MW-08(S) triggers a contingency measure according to the WFCP.

- The Leading Edge Wells will be sampled monthly for two months (December 2020 and January 2021). If concentrations in these wells are below the MCL then normal sampling will resume, and if not, Site conditions and the 2021 monitoring plan will be reevaluated.
- Progressive notified the USEPA/OEPA/VOG of this additional planned sampling via email dated December 9, 2020.

3.2.3 Source Area and Off-Site Wells

The 2020 groundwater sampling results for the other wells site wide are consistent with the historical trends with stable to no change in the concentrations of VOCs:

- MW-01(S), located in the source area, reported PCE (10 ug/L) and TCE (16 ug/L) at levels slightly above the MCL; other VOCs were below the MCLs or not detected.

- MW-02(S), located in the source area, reported PCE (140 ug/L) and TCE (510 ug/L) at levels above the MCL. Daughter products TCA, cDCE, and tDCE were below respective MCLs in November.

- MW-02D(I), located in the source area, reported PCE (270 ug/L), TCE (670 ug/L), and TCA (270 ug/L) at levels above MCLs; other VOCs were below MCLs.

- MW-04DR(S), located in the source area, reported PCE (24 ug/L) and TCE (73 ug/L) at levels above the MCLs; other VOCs were below the MCLs or not detected.

- MW-04D2(I), located in the source area, reported PCE (55 ug/L) and TCE (19 ug/L) at levels above the MCLs; other VOCs were below the MCLs.

- MW-06(I), located in the source area, reported TCE (16 ug/L) above the MCL; other VOCs were below the MCLs or not detected.

- MW-16(S), located west of the Site, reported TCE (7.3 ug/L) slightly above the MCL; other VOCs were below the MCLs.

- MW-P1(S), located in the source area, reported PCE (56 ug/L) and TCE (38 ug/L) at levels above MCLs; other VOCs were below the MCLs or not detected.

- GSSMW-12(D), located in the source area, reported TCE (25 ug/L) and PCE (6.1 ug/L) at levels above the MCLs; other VOCs were below the MCLs or not detected.

- GSSMW-15(I), located between the source area and the Leading Edge Wells, reported PCE (17 ug/L) and TCE (108 ug/L) at levels above the MCLs; other VOCs were below the MCLs or not detected. This well is screened between 24 and 34 ft bls primarily in the depositional fan channel deposits above the glacial

outwash unit. It is at the same approximate depth as on site well MW-02D(I), and is appropriately located to monitor the plume edge west of that well.

3.3 Data Validation

Validation was performed for field and laboratory data for the June and November 2020 sampling events. Data validation reports are presented in Appendix E.

Field Data

The groundwater sampling logs presented in Appendix A were validated for accuracy and completeness in accordance with the GWMP and the QAPP Addendum; the results of that validation are summarized below:

- Water sampling logs are complete and accurate.
- The appropriate number of sample duplicates, equipment blanks and trip blanks were collected.
- The appropriate numbers of MS/MSD samples were collected.
- Samples were properly collected following stabilization of field measurements (where applicable) of pH, conductivity, dissolved oxygen and turbidity.

Laboratory Data

Groundwater quality analytical reports are provided in Appendix B. Each data package generated for samples collected on behalf of the Group was validated by Progressive to ensure that the laboratory performed sample handling, analyses, and reporting in accordance with applicable QA/QC criteria outlined in the QAPP Addendum and the GWMP. Data validation consisted of reviewing the laboratory data packages and narratives. The data validation reports presented in Appendix E describe the validation procedures and findings, including any deficiencies or deviations from the specified protocol. Validation reports indicate that 2020 data are usable for their intended purposes.

4. CONCLUSIONS/RECOMMENDATIONS

The 2020 monitoring data and historical trends suggest the following general conclusions:

- Compliance Wells (GSSMW-08(I) and GSSMW-09(I)) were non-detect for all VOCs in the June and November sampling events, and VOCs have historically not been detected in these wells.

- Leading Edge Well MW-07D(I) was non-detect for all VOCs in the June sampling event, but had an estimated detection of cDCE (0.33 J) in November 2020. VOCs have historically not been detected in this well. Leading Edge Well MW-08(S) had a detection of cDCE very slightly above the MCL in November 2020 which triggers the following contingency (repeat) sampling:

    - Leading Edge Wells MW-07D(I) and MW-08(S) will be sampled in December 2020 and January 2021.
    - MW-08D(I), which is co-located with MW-08(S), will also be sampled at the same events to check for any vertical aquifer concerns.

- Concentrations of VOCs in GSSMW-15(I), the downgradient well located between the Site and the Leading Edge Wells (MW-07D(I) and MW-08(S)), are above levels observed at system shutdown, but show a general leveling off with some slight fluctuation.

- Concentrations within the Site generally remain stable. Most wells exhibit some VOC levels above MCLs, with fluctuating concentrations.

- The contoured groundwater levels (Figures 2, 3, and 4), show Site groundwater flows westward under the influence of VOG production wells.

Based on the 2020 results and observations, we recommend the following:

- In accordance with the LTS Plan, Site inspections will continue during sampling events to ensure the security of the Site and wells, and wells will be inspected to verify integrity.

- Progressive recommends a change in the groundwater monitoring plan for the Site for 2021 and 2022, as shown on Table 5. Progressive recommends the changes based on the lack of detections of VOCs in wells outside of the Site and the current clear understanding of groundwater flow direction at the Site. The proposed plan includes the following:

    - Water levels will be collected twice per year at prescribed wells to monitor groundwater flow direction.

- Water levels in Racoon Creek will be collected every other year, during the Spring sampling event.

- Groundwater sampling will be focused to key wells semiannually including Leading Edge, Compliance, and other select wells (annually) and a larger set of wells every other year (beginning in 2022). This two-year cycle will continue unless data evaluation suggests other frequencies or locations are appropriate.

5. REFERENCES

Bill Brewer/Group letter to USEPA dated January 31, 2005, Post-Shutdown Contingency Plan.

Metcalf & Eddy, Inc., 2004. A Proposal to Suspend Groundwater and Soil Treatment System Operation and Commence Post-Shutdown Groundwater Monitoring at the Granville Solvents Site, Granville, Ohio, dated August 2004.

Progressive Engineering & Construction, Inc. (Progressive), 2017a. Summary Report for Groundwater and Soil Sampling, Granville Solvents, Inc. Site, Granville, Ohio, dated January 9, 2017.

Progressive, 2017b. Quality Assurance Project Plan Addendum, Granville Solvents, Inc. Site, Granville, Ohio, dated November 2017.

Progressive, 2018. Well Field Communication Plan, Village of Granville Municipal Water Supply, Granville, Ohio, dated June 20, 2018.

Progressive, 2019. 2018 Annual Groundwater Monitoring Report, Village of Granville Municipal Water Supply, Granville, Ohio, dated January 22, 2019.

Progressive, 2020a. Project Update Letter, Village of Granville Municipal Water Supply, Granville, Ohio, dated July 22, 2020.

Progressive, 2020b. Long Term Stewardship Plan, Village of Granville Municipal Water Supply, Granville, Ohio, dated September 30, 2020.

TABLES

Table 1. Groundwater Monitoring Plan - 2020
Granville Solvents, Inc. Site; Granville, Ohio

		Monitoring Plan	
Monitoring Location	**General Depth, and Screen Interval (ft bTOC)**	**Hydraulic / Water Levels***	**Groundwater Quality**
MW-01(S)	Shallow, 25.5-35.5	Annual	Annual
MW-02(S)	Shallow, 13.5-23.5	Annual	Semi-Annual
MW-02D(I)	Intermediate, 23-33	Annual	Semi-Annual
MW-03(S)	Shallow, 7.5-17.5	Annual	Biennial
MW-04DR(S)	Shallow, 13-23	Annual	Semi-Annual
MW-04D2(I)	Intermediate, 35-45	Annual	Semi-Annual
MW-05(S)	Shallow, 18-28	Annual	Biennial
MW-06(I)	Intermediate, 38-48	Annual	Annual
MW-06D(D)	Deep, 54.5-64.5	Annual	Biennial
MW-07(S)	Shallow, 15-25	Annual	Annual
MW-07D(I)	Intermediate, 26.5-36.5	Annual	Semi-Annual
MW-08(S)	Shallow, 29-39	Annual	Semi-Annual
MW-08D(I)	Intermediate, 43-53	Annual	Annual
MW-P1(S)	Shallow, 21-31	Annual	Annual
GSSMW-02(S)	Shallow, 17.2-27.7	Annual	Biennial
GSSMW-04(I)	Intermediate, 38-48	Annual	Biennial
GSSMW-05(I)	Intermediate, 68.7-78.7	Annual	Biennial
GSSMW-08(I)	Intermediate, 28-38	Annual	Semi-Annual
GSSMW-09(I)	Intermediate, 27-37	Annual	Semi-Annual
GSSMW-10(I)	Intermediate, 27-37	Annual	Annual
GSSMW-12(D)	Deep, 77-97	Annual	Semi-Annual
GSSMW-13(D)	Deep, 73.5-93.5	Annual	Annual
GSSMW-14(D)	Deep, 84-94	Annual	Annual
GSSMW-15(I)	Intermediate, 24-34	Annual	Semi-Annual
GSS-P2(D)	Deep, 41.5-61.5	Annual	Annual
GSS-P3(D)	Deep, 55-65	Annual	Annual
MW-16(S)	Shallow, 20-30	Annual	Semi-Annual
MW-17(I)	Intermediate, 38-48	Annual	Semi-Annual
PW-01(D)	Deep, 75-95	Annual	Annual
PW-02(D)	Deep, 67-93	Annual	Annual
PW-03A(D)	Deep, 46-61 and 71-91	Annual	Annual
PW-04(D)	Deep, 65-92	Annual	Annual
BM-1	Creek Level	Annual	
BM-2	Creek Level	Annual	
BM-3	Creek Level	Annual	

ft bTOC - feet below top of casing
Semi-Annual = June and November ; Annual = June; Biennial = every other June event
The adequacy of the monitoring plan will be
evaluated on an annual basis, and any changes to
* - At request of USEPA, water levels were recorded semi-annually in 2020.

Compliance Well
Leading-Edge Well

Table 2. Groundwater Elevations
Granville Solvents Site; Granville, Ohio

Well ID, General Depth, and Screen Interval (ft bTOC)		Ground Surface Elevation (ft AMSL)	Screen Interval (ft AMSL)	Date	Top Of Casing Elevation (ft AMSL)	Depth to Water (ft bTOC)	Potentiometric Surface Elevation (ft AMSL)
MW-01(S)	**Shallow, 25.5-35.5**	**928.3**	**902.8 - 892.8**				
				13-May-11	930.21	28.57	901.64
				2-Nov-11		31.17	899.04
				29-May-12		30.10	900.11
				12-Nov-12		33.04	897.17
				13-Jun-13		31.33	898.88
				4-Dec-13		31.70	898.51
				1-Dec-15		32.67	897.54
				26-Sep-16	930.43	33.00	897.43
				17-Jul-17		30.71	899.72
				18-Jun-18		30.52	899.91
				6-Aug-18		32.05	898.38
				16-Jul-19		30.70	899.73
				18-Nov-19		33.58	896.85
				1-Jun-20		28.87	901.56
				9-Nov-20		33.13	897.30
MW-02(S)	**Shallow, 18-28**	**921.1**	**907.6 - 897.6**				
				13-May-11	923.68	22.05	901.63
				2-Nov-11		24.68	899.00
				29-May-12		23.63	900.05
				12-Nov-12		26.56	897.12
				13-Jun-13		24.88	898.80
				4-Dec-13		25.21	898.47
				1-Dec-15		26.12	897.56
				26-Sep-16	923.96	26.51	897.45
				17-Jul-17		24.25	899.71
				18-Jun-18		24.02	899.94
				6-Aug-18		25.61	898.35
				16-Jul-19		24.35	899.61
				18-Nov-19		27.12	896.84
				1-Jun-20		22.43	901.53
				9-Nov-20		26.69	897.27
MW-02D(I)	**Intermediate, 23-33**	**922.1**	**899.1 - 889.1**				
				13-May-11	924.20	22.52	901.68
				2-Nov-11		25.13	899.07
				29-May-12		24.05	900.15
				12-Nov-12		26.99	897.21
				13-Jun-13		25.31	898.89
				4-Dec-13		25.64	898.56
				1-Dec-15		26.55	897.65
				26-Sep-16	924.39	26.98	897.41
				17-Jul-17		24.68	899.71
				18-Jun-18		24.50	899.89
				6-Aug-18		26.05	898.34
				16-Jul-19		24.78	899.61
				18-Nov-19		27.55	896.84
				1-Jun-20		22.87	901.52
				9-Nov-20		27.12	897.27
MW-03(S)	**Shallow, 7.5-17.5**	**915.7**	**908.2 - 898.2**				
				13-May-11	917.27	6.15	911.12
				2-Nov-11		5.40	911.87
				29-May-12		8.85	908.42
				12-Nov-12		8.26	909.01
				13-Jun-13		4.27	913.00
				4-Dec-13		7.46	909.81
				1-Dec-15		7.26	910.01
				26-Sep-16	917.49	9.10	908.39
				17-Jul-17		6.02	911.47
				18-Jun-18		7.13	910.36
				6-Aug-18		9.51	907.98
				16-Jul-19		8.52	908.97
				18-Nov-19		9.26	908.23
				1-Jun-20		7.09	910.40
				9-Nov-20		8.13	909.36

Table 2. Groundwater Elevations
Granville Solvents Site; Granville, Ohio

Well ID, General Depth, and Screen Interval (ft bTOC)		Ground Surface Elevation (ft AMSL)	Screen Interval (ft AMSL)	Date	Top Of Casing Elevation (ft AMSL)	Depth to Water (ft bTOC)	Potentiometric Surface Elevation (ft AMSL)
MW-04D(S)	**Shallow, 20-30**	**917.1**	**897.1 - 887.1**				
				13-May-11	920.75	18.96	901.79
				2-Nov-11		21.54	899.21
				29-May-12		20.48	900.27
				12-Nov-12		23.40	897.35
				13-Jun-13		21.70	899.05
				4-Dec-13		22.05	898.70
				1-Dec-15		Obstruction at 4.3ft.	
				26-Sep-16	920.87	Obstruction at 4.3ft.	
				Well Abandoned and Replaced July 2017			
MW-04DR	**Shallow, 18-28**	**918.1**	**900.1 - 890.1**				
				18-Jun-18	920.23	20.00	900.23
				6-Aug-18		21.60	898.63
				16-Jul-19		19.82	900.41
				18-Nov-19		23.04	897.19
				1-Jun-20		17.93	902.30
				9-Nov-20		22.49	897.74
MW-04D2(I)	**Intermediate, 35-45**	**917.5**	**882.5 - 872.5**				
				13-May-11	921.14	19.35	901.79
				2-Nov-11		21.92	899.22
				29-May-12		20.87	900.27
				12-Nov-12		23.87	897.27
				13-Jun-13		22.10	899.04
				4-Dec-13		22.44	898.70
				1-Dec-15		23.40	897.74
				26-Sep-16	921.22	23.75	897.47
				17-Jul-17		20.51	900.71
				18-Jun-18		21.30	899.92
				6-Aug-18		22.89	898.33
				16-Jul-19		21.51	899.71
				18-Nov-19		24.37	896.85
				1-Jun-20		19.69	901.53
				9-Nov-20		23.92	897.30
MW-05(S)	**Shallow, 18-28**	**919.7**	**901.7 - 891.7**				
				13-May-11	921.79	19.72	902.07
				2-Nov-11		22.28	899.51
				29-May-12		21.24	900.55
				12-Nov-12		24.16	897.63
				13-Jun-13		22.42	899.37
				4-Dec-13		22.81	898.98
				1-Dec-15		23.74	898.05
				26-Sep-16	921.58	24.10	897.48
				17-Jul-17		22.17	899.41
				18-Jun-18		21.78	899.80
				6-Aug-18		23.16	898.42
				16-Jul-19		21.74	899.84
				18-Nov-19		24.68	896.90
				1-Jun-20		20.00	901.58
				9-Nov-20		24.20	897.38
MW-06(I)	**Intermediate, 38-48**	**934.5**	**896.5 - 886.5**				
				13-May-11	936.06	34.23	901.83
				2-Nov-11		36.86	899.20
				29-May-12		35.79	900.27
				12-Nov-12		38.73	897.33
				13-Jun-13		37.04	899.02
				4-Dec-13		37.40	898.66
				1-Dec-15		38.29	897.77
				26-Sep-16	936.13	38.71	897.42
				17-Jul-17		36.40	899.73
				18-Jun-18		36.19	899.94
				6-Aug-18		37.78	898.35
				16-Jul-19		36.50	899.63
				18-Nov-19		39.28	896.85
				1-Jun-20		34.56	901.57
				9-Nov-20		38.85	897.28

Table 2. Groundwater Elevations
Granville Solvents Site; Granville, Ohio

Well ID, General Depth, and Screen Interval (ft bTOC)		Ground Surface Elevation (ft AMSL)	Screen Interval (ft AMSL)	Date	Top Of Casing Elevation (ft AMSL)	Depth to Water (ft bTOC)	Potentiometric Surface Elevation (ft AMSL)
MW-06D(D)	**Deep, 54.5-64.5**	**933.9**	**879.4 - 869.4**				
				13-May-11	936.43	34.37	902.06
				2-Nov-11		37.03	899.40
				29-May-12		35.97	900.46
				12-Nov-12		38.91	897.52
				13-Jun-13		37.24	899.19
				4-Dec-13		37.59	898.84
				1-Dec-15		38.49	897.94
				26-Sep-16	936.31	38.90	897.41
				17-Jul-17		36.56	899.75
				18-Jun-18		36.41	899.90
				6-Aug-18		37.96	898.35
				16-Jul-19		36.70	899.61
				18-Nov-19		39.49	896.82
				1-Jun-20		34.74	901.57
				9-Nov-20		39.06	897.25
MW-07(S)	**Shallow, 15-25**	**916.7**	**901.7 - 891.7**				
				13-May-11	917.90	16.22	901.68
				2-Nov-11		18.78	899.12
				29-May-12		17.74	900.16
				12-Nov-12		20.60	897.30
				13-Jun-13		19.07	898.83
				4-Dec-13		19.27	898.63
				1-Dec-15		20.17	897.73
				26-Sep-16	918.00	20.62	897.38
				17-Jul-17		18.30	899.70
				18-Jun-18		18.18	899.82
				6-Aug-18		19.77	898.23
				16-Jul-19		18.82	899.18
				18-Nov-19		21.31	896.69
				1-Jun-20		16.72	901.28
				9-Nov-20		20.89	897.11
MW-07D(I)	**Intermediate, 26.5-36.5**	**917.0**	**890.5 - 880.5**				
				13-May-11	917.96	16.15	901.81
				2-Nov-11		18.89	899.07
				29-May-12		17.73	900.23
				12-Nov-12		20.73	897.23
				13-Jun-13		19.14	898.82
				4-Dec-13		19.39	898.57
				1-Dec-15		20.31	897.65
				26-Sep-16	918.09	20.81	897.28
				17-Jul-17		18.45	899.64
				18-Jun-18		18.26	899.83
				6-Aug-18		19.86	898.23
				16-Jul-19		18.80	899.29
				18-Nov-19		21.42	896.67
				1-Jun-20		16.64	901.45
				9-Nov-20		21.20	896.89
MW-08(S)	**Shallow, 29-39**	**928.5**	**899.5 - 889.5**				
				13-May-11	928.12	26.03	902.09
				2-Nov-11		29.05	899.07
				29-May-12		27.89	900.23
				12-Nov-12		30.91	897.21
				13-Jun-13		29.35	898.77
				4-Dec-13		29.57	898.55
				1-Dec-15		30.43	897.69
				26-Sep-16	928.23	30.94	897.29
				17-Jul-17		28.56	899.67
				18-Jun-18		28.38	899.85
				6-Aug-18		30.05	898.18
				16-Jul-19		28.94	899.29
				18-Nov-19		32.59	895.64
				1-Jun-20		26.71	901.52
				9-Nov-20		31.19	897.04

Table 2. Groundwater Elevations
Granville Solvents Site; Granville, Ohio

Well ID, General Depth, and Screen Interval (ft bTOC)		Ground Surface Elevation (ft AMSL)	Screen Interval (ft AMSL)	Date	Top Of Casing Elevation (ft AMSL)	Depth to Water (ft bTOC)	Potentiometric Surface Elevation (ft AMSL)
MW-08D(I)	**Intermediate, 43-53**	**928.1**	**885.1 - 875.1**				
				13-May-11	927.84	26.01	901.83
				2-Nov-11		28.83	899.01
				29-May-12		27.85	899.99
				12-Nov-12		30.69	897.15
				13-Jun-13		29.15	898.69
				4-Dec-13		29.39	898.45
				1-Dec-15		30.22	897.62
				26-Sep-16	928.02	30.78	897.24
				17-Jul-17		28.40	899.62
				18-Jun-18		28.17	899.85
				6-Aug-18		29.87	898.15
				16-Jul-19		28.76	899.26
				18-Nov-19		31.41	896.61
				1-Jun-20		26.52	901.50
				9-Nov-20		31.00	897.02
MW-16(S)	**Shallow, 20 - 30**	**917.2**	**897.2 - 887.2**				
				18-Jun-18	916.79	16.99	899.80
				6-Aug-18		18.49	898.30
				16-Jul-19		17.37	899.42
				18-Nov-19		20.19	896.60
				1-Jun-20		15.35	901.44
				9-Nov-20		19.62	897.17
MW-17(I)	**Intermediate, 38 - 48**	**916.9**	**878.9 - 868.9**				
				18-Jun-18	916.66	17.84	898.82
				6-Aug-18		18.46	898.20
				16-Jul-19		17.24	899.42
				18-Nov-19		19.91	896.75
				1-Jun-20		15.22	901.44
				9-Nov-20		19.50	897.16
MW-P1(S)	**Shallow, 21-31**	**922.6**	**901.6 - 891.6**				
				13-May-11	924.00	22.15	901.85
				2-Nov-11		24.71	899.29
				29-May-12		23.65	900.35
				12-Nov-12		26.60	897.40
				13-Jun-13		24.88	899.12
				4-Dec-13		25.23	898.77
				1-Dec-15		26.15	897.85
				26-Sep-16	924.01	26.54	897.47
				17-Jul-17		24.25	899.76
				18-Jun-18		24.04	899.97
				6-Aug-18		25.62	898.39
				16-Jul-19		24.28	899.73
				18-Nov-19		27.14	896.87
				1-Jun-20		22.44	901.57
				9-Nov-20		26.66	897.35
GSSMW-02(S)	**Shallow, 17.2-27.7**	**911.4**	**894.2 - 884.2**				
				13-May-11	910.75	8.80	901.95
				2-Nov-11		11.67	899.08
				29-May-12		10.45	900.30
				12-Nov-12		13.44	897.31
				13-Jun-13		11.97	898.78
				4-Dec-13		12.11	898.64
				1-Dec-15		12.98	897.77
				26-Sep-16	910.77	13.50	897.27
				17-Jul-17		11.14	899.63
				18-Jun-18		10.94	899.83
				6-Aug-18		12.63	898.14
				16-Jul-19		11.69	899.08
				18-Nov-19		14.20	896.57
				1-Jun-20		9.36	901.41
				9-Nov-20		13.79	896.98

Table 2. Groundwater Elevations
Granville Solvents Site; Granville, Ohio

Well ID, General Depth, and Screen Interval (ft bTOC)		Ground Surface Elevation (ft AMSL)	Screen Interval (ft AMSL)	Date	Top Of Casing Elevation (ft AMSL)	Depth to Water (ft bTOC)	Potentiometric Surface Elevation (ft AMSL)
GSSMW-04(I)	**Intermediate, 38-48**	**923.2**	**885.2 - 875.2**				
				13-May-11	924.68	22.89	901.79
				2-Nov-11		25.55	899.13
				29-May-12		24.43	900.25
				12-Nov-12		27.36	897.32
				13-Jun-13		25.56	899.12
				4-Dec-13		26.01	898.67
				1-Dec-15		26.94	897.74
				26-Sep-16	924.83	27.23	897.60
				17-Jul-17		25.06	899.77
				18-Jun-18		24.78	900.05
				6-Aug-18		26.29	898.54
				17-Jun-19		24.82	900.01
				18-Nov-19		27.83	897.00
				1-Jun-20		23.11	901.72
				9-Nov-20		27.34	897.49
GSSMW-05(I)	**Intermediate, 68.7-78.7**	**960.0**	**891.3 - 881.3**				
				13-May-11	959.16	57.36	901.80
				2-Nov-11		60.07	899.09
				29-May-12		58.96	900.20
				12-Nov-12		61.95	897.21
				13-Jun-13		60.24	898.92
				4-Dec-13		60.60	898.56
				1-Dec-15		61.51	897.65
				26-Sep-16	959.32	61.92	897.40
				17-Jul-17		59.62	899.70
				18-Jun-18		59.36	899.96
				6-Aug-18		60.97	898.35
				16-Jul-19		59.60	899.72
				18-Nov-19		62.50	896.82
				1-Jun-20		57.72	901.60
				9-Nov-20		62.05	897.27
GSSMW-08(I)	**Intermediate, 28-38**	**917.6**	**889.6 - 879.6**				
				13-May-11	917.01	14.75	902.26
				2-Nov-11		17.94	899.07
				29-May-12		16.56	900.45
				12-Nov-12		19.73	897.28
				13-Jun-13		18.38	898.63
				4-Dec-13		18.39	898.62
				1-Dec-15		19.27	897.74
				26-Sep-16	916.98	19.80	897.18
				17-Jul-17		17.46	899.52
				18-Jun-18		17.16	899.82
				6-Aug-18		18.91	898.07
				16-Jul-19		18.20	898.78
				18-Nov-19		20.57	896.41
				1-Jun-20		14.39	902.59
				9-Nov-20		20.19	896.79
GSSMW-09(I)	**Intermediate, 27-37**	**917.1**	**890.1 - 880.1**				
				13-May-11	916.17	14.05	902.12
				2-Nov-11		17.20	898.97
				29-May-12		15.88	900.29
				12-Nov-12		19.13	897.04
				13-Jun-13		17.78	898.39
				4-Dec-13		17.80	898.37
				1-Dec-15		18.66	897.51
				26-Sep-16	916.89	19.68	897.21
				17-Jul-17		17.34	899.55
				18-Jun-18		17.10	899.79
				6-Aug-18		18.87	898.02
				16-Jul-19	916.83*	17.94	898.89
				18-Nov-19		20.38	896.45
				1-Jun-20		15.27	901.56
				9-Nov-20		19.99	896.84

Table 2. Groundwater Elevations
Granville Solvents Site; Granville, Ohio

Well ID, General Depth, and Screen Interval (ft bTOC)		Ground Surface Elevation (ft AMSL)	Screen Interval (ft AMSL)	Date	Top Of Casing Elevation (ft AMSL)	Depth to Water (ft bTOC)	Potentiometric Surface Elevation (ft AMSL)
GSSMW-10(I)	**Intermediate, 27-37**	**917.3**	**890.3 - 880.3**				
				13-May-11	916.65	14.29	902.36
				2-Nov-11		17.65	899.00
				29-May-12		16.16	900.49
				12-Nov-12		19.35	897.30
				13-Jun-13		18.07	898.58
				4-Dec-13		18.04	898.61
				1-Dec-15		18.86	897.79
				26-Sep-16	916.61	20.42	896.19
				17-Jul-17		17.08	899.53
				18-Jun-18		16.75	899.86
				6-Aug-18		18.56	898.05
				16-Jul-19		17.89	898.72
				18-Nov-19		20.27	896.34
				1-Jun-20		14.97	901.64
				9-Nov-20		19.86	896.75
GSSMW-12(D)	**Deep, 77-97**	**920.5**	**843.5 - 823.5**				
				13-May-11	923.36	21.52	901.84
				2-Nov-11		24.16	899.20
				29-May-12		23.06	900.30
				12-Nov-12		26.04	897.32
				13-Jun-13		24.32	899.04
				4-Dec-13		24.67	898.69
				1-Dec-15		25.58	897.78
				26-Sep-16	923.38	25.99	897.39
				17-Jul-17		23.69	899.69
				18-Jun-18		23.29	900.09
				6-Aug-18		25.05	898.33
				16-Jul-19		23.78	899.60
				18-Nov-19		26.57	896.81
				1-Jun-20		21.88	901.50
				9-Nov-20		26.15	897.23
GSSMW-13(D)	**Deep, 73.5-93.5**	**917.0**	**843.5 - 823.5**				
				13-May-11	920.40	18.59	901.81
				2-Nov-11		21.18	899.22
				29-May-12		20.10	900.30
				12-Nov-12		23.02	897.38
				13-Jun-13		21.31	899.09
				4-Dec-13		21.66	898.74
				1-Dec-15		22.60	897.80
				26-Sep-16	920.45	22.99	897.46
				17-Jul-17		20.72	899.73
				18-Jun-18		20.50	899.95
				6-Aug-18		22.10	898.35
				16-Jul-19		20.73	899.72
				18-Nov-19		23.59	896.86
				1-Jun-20		18.90	901.55
				9-Nov-20		23.12	897.33
GSSMW-14(D)	**Deep, 84-94**	**907.2**	**823.2 - 813.2**				
				13-May-11	906.82	4.45	902.37
				2-Nov-11		7.75	899.07
				29-May-12		6.48	900.34
				12-Nov-12		9.76	897.06
				13-Jun-13		8.02	898.80
				4-Dec-13		8.32	898.50
				1-Dec-15		9.29	897.53
				26-Sep-16	906.83	9.70	897.13
				17-Jul-17		7.37	899.46
				18-Jun-18		7.05	899.78
				6-Aug-18		8.84	897.99
				16-Jul-19		8.18	898.65
				18-Nov-19		10.60	896.23
				1-Jun-20		5.18	901.65
				9-Nov-20		10.21	896.62

Table 2. Groundwater Elevations
Granville Solvents Site; Granville, Ohio

Well ID, General Depth, and Screen Interval (ft bTOC)		Ground Surface Elevation (ft AMSL)	Screen Interval (ft AMSL)	Date	Top Of Casing Elevation (ft AMSL)	Depth to Water (ft bTOC)	Potentiometric Surface Elevation (ft AMSL)
GSSMW-15(I)	**Intermediate, 24-34**	**920.4**	**869.4 - 886.4**				
				13-May-11	919.94	18.07	901.87
				2-Nov-11		20.75	899.19
				29-May-12		19.64	900.30
				12-Nov-12		22.61	897.33
				13-Jun-13		20.97	898.97
				4-Dec-13		21.25	898.69
				1-Dec-15		22.18	897.76
				26-Sep-16	920.00	22.61	897.39
				17-Jul-17		20.28	899.72
				18-Jun-18		20.11	899.89
				6-Aug-18		21.69	898.31
				16-Jul-19		20.52	899.48
				18-Nov-19		23.23	896.77
				1-Jun-20		18.49	901.51
				9-Nov-20		22.81	897.19
GSSEW-01(D) (EW-01)	**Deep, 38-78**	**918.1**	**880.1 - 840.1**				
				13-May-11	915.56	13.40	902.16
				2-Nov-11		16.35	899.21
				29-May-12		15.11	900.45
				12-Nov-12		18.18	897.38
				13-Jun-13		16.68	898.88
				4-Dec-13		16.82	898.74
				1-Dec-15		17.70	897.86
				26-Sep-16	915.48	18.20	897.28
				Abandoned July 2017			
GSSEW-02(D) (EW-02)	**Deep, 34.5-89.5**	**917.0**	**882.5 - 827.5**				
				13-May-11	915.38	13.80	901.58
				2-Nov-11		16.40	898.98
				29-May-12		15.55	899.83
				12-Nov-12		18.27	897.11
				13-Jun-13		16.55	898.83
				4-Dec-13		16.92	898.46
				1-Dec-15		17.86	897.52
				26-Sep-16	915.35	18.20	897.15
				Abandoned July 2017			
GSS-P2(D)	**Deep, 41.5-61.5**	**913.4**	**871.9 - 851.9**				
				13-May-11	913.58	11.51	902.07
				2-Nov-11		14.45	899.13
				29-May-12		13.22	900.36
				12-Nov-12		16.26	897.32
				13-Jun-13		14.81	898.77
				4-Dec-13		14.94	898.64
				1-Dec-15		15.82	897.76
				26-Sep-16	913.57	16.32	897.25
				17-Jul-17		13.98	899.59
				18-Jun-18		13.75	899.82
				6-Aug-18		15.46	898.11
				16-Jul-19		14.57	899.00
				18-Nov-19		17.05	896.52
				1-Jun-20		12.11	901.46
				9-Nov-20		16.62	896.95
GSS-P3(D)	**Deep, 55-65**	**906.0**	**851.0 - 841.0**				
				13-May-11	905.71	3.42	902.29
				2-Nov-11		6.84	898.87
				29-May-12		5.22	900.49
				12-Nov-12		8.55	897.16
				13-Jun-13		7.35	898.36
				4-Dec-13		7.25	898.46
				1-Dec-15		8.09	897.62
				26-Sep-16	905.80	8.65	897.15
				17-Jul-17		6.31	899.49
				18-Jun-18		5.97	899.83
				6-Aug-18		7.81	897.99
				16-Jul-19		7.21	898.59
				18-Nov-19		9.15	896.65
				1-Jun-20		3.79	902.01
				9-Nov-20		9.07	896.73

Table 2. Groundwater Elevations
Granville Solvents Site; Granville, Ohio

Well ID, General Depth, and Screen Interval (ft bTOC)		Ground Surface Elevation (ft AMSL)	Screen Interval (ft AMSL)	Date	Top Of Casing Elevation (ft AMSL)	Depth to Water (ft bTOC)	Potentiometric Surface Elevation (ft AMSL)
PW-01(D)	**Deep, 75-95**	**907.2**	**832.2 - 812.2**				
				13-May-11	909.06	6.77	902.29
				28-Oct-11		8.33	900.73
				29-May-12		8.49	900.57
				12-Nov-12		11.75	897.31
				13-Jun-13		10.59	898.47
				4-Dec-13		10.43	898.63
				1-Dec-15		11.26	897.80
				26-Sep-16	909.18	12.02	897.16
				17-Jul-17		9.71	899.47
				18-Jun-18		9.15	900.03
				6-Aug-18		11.00	898.18
				16-Jul-19		10.45	898.73
				18-Nov-19		12.69	896.49
				1-Jun-20		7.30	901.88
				9-Nov-20		12.29	896.89
PW-02(D)	**Deep, 67-93**	**907.9**	**840.9 - 814.9**				
				13-May-11	908.95	7.88	901.07
				28-Oct-11		9.17	899.78
				29-May-12		NC	NC
				12-Nov-12		13.50	895.45
				13-Jun-13		28.85	880.10
				4-Dec-13		12.13	896.82
				1-Dec-15		12.70	896.25
				26-Sep-16	910.59	13.52	897.07
				17-Jul-17		11.58	899.01
				18-Jun-18		10.76	899.83
				6-Aug-18		12.92	897.67
				16-Jul-19		36.98	873.61
				18-Nov-19		14.47	896.12
				1-Jun-20		8.40	902.19
				9-Nov-20		14.17	896.42
PW-03A(D)	**Deep, 46-61 and 71-91**	**908.6**	**862.6-847.6 and 837.6 - 817.6**				
				13-May-11	910.27	8.46	901.81
				28-Oct-11		10.17	900.10
				29-May-12		10.63	899.64
				12-Nov-12		14.54	895.73
				13-Jun-13		10.28	899.99
				4-Dec-13		23.72	886.55
				1-Dec-15		13.84	896.43
				26-Sep-16	910.58	15.10	895.48
				17-Jul-17		22.94	887.64
				18-Jun-18		11.62	898.96
				6-Aug-18		24.72	885.86
				16-Jul-19		9.02	901.56
				18-Nov-19		32.30	878.28
				1-Jun-20		9.00	901.58
				9-Nov-20		31.48	879.10
PW-04(D)	**Deep, 65-92**	**909.4**	**844.4 - 817.4**				
				13-May-11	910.59	34.81	875.78
				28-Oct-11		10.50	900.09
				29-May-12		44.89	865.70
				12-Nov-12		16.49	894.10
				13-Jun-13		9.33	901.26
				4-Dec-13		12.21	898.38
				1-Dec-15		41.55	869.04
				26-Sep-16	910.98	10.60	900.38
				17-Jul-17		11.29	899.69
				18-Jun-18		14.10	896.88
				6-Aug-18		12.65	898.33
				16-Jul-19		9.14	901.84
				18-Nov-19		14.18	896.80
				1-Jun-20		34.08	876.90
				9-Nov-20		13.91	897.07

Table 2. Groundwater Elevations
Granville Solvents Site; Granville, Ohio

Well ID, General Depth, and Screen Interval (ft bTOC)		Ground Surface Elevation (ft AMSL)	Screen Interval (ft AMSL)	Date	Top Of Casing Elevation (ft AMSL)	Depth to Water (ft bTOC)	Potentiometric Surface Elevation (ft AMSL)
BM-1	**Creek Level**			26-Sep-16	907.78		899.36
				17-Jul-17			899.61
				6-Aug-18			899.43
				16-Jul-19			899.64
				1-Jun-20			899.57
				9-Nov-20			899.40
BM-2	**Creek Level**			26-Sep-16	913.26		899.33
				17-Jul-17			899.88
				6-Aug-18			899.35
				16-Jul-19			899.64
				1-Jun-20			899.62
				9-Nov-20			899.40
BM-3	**Creek Level**			26-Sep-16	907.77		899.23
				17-Jul-17			899.94
				6-Aug-18			899.15
				16-Jul-19			899.59
				1-Jun-20			899.56
				9-Nov-20			899.43

* - Well repaired on 4/17/19, elevation surveyed by Progressive on 7/16/19 using an optical level.
ft bTOC - feet below top of casing
ft amsl - feet above mean sea level
NC - PW-02 guide pipe for gauging too narrow for WL probe.
(S),(I), (D) - Screen Interval is Shallow, Intermediate, or Deep

Top of casing elevations for all wells and benchmarks for Racoon Creek locations surveyed on 8/19/2016 by Smart Services, Inc.

Table 3. Groundwater Sampling Results - 2020
Granville Solvents Site; Granville, Ohio

Sample Location	Well Location Relative to Site	Screen Interval (ft bTOC)	Sample Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	TCA (µg/L)
			MCLs (µg/L)	**5**	**5**	**70**	**100**	**200**
MW-01(S)	On Site	25.5 - 35.5	1-Jun-20	10	16	0.2 U	0.2 U	46
MW-02(S)	On Site	13.5 - 23.5	3-Jun-20	61	200	7.7	0.67 J	82
			11-Nov-20	140	510	19	1.4	190
MW-02D(I)	On Site	23 - 33	3-Jun-20	180	470	12	1.2	200
			11-Nov-20	270	670	15	1.1	270
MW-03(S)	On Site	7.5 - 17.5	11-Nov-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-04DR(S)	On Site	18 - 28	3-Jun-20	6.2	15	0.2 U	0.2 U	5.1
			10-Nov-20	24	73	0.32 J	0.2 U	31
MW-04D2(I)	On Site	35 - 45	3-Jun-20	23	11	24	1.1	8.5
			10-Nov-20	55	19	34	1.1	12
MW-05(S)	On Site	18 -28	11-Nov-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-06(I)	Northern	38 - 48	2-Jun-20	0.2 U	16	0.2 U	0.2 U	170
MW-06D(D)	Northern	54.5 - 64.5	2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-07(S)	Western	15 - 25	2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-07D(I)	Leading Edge	26.5 - 36.5	2-Jan-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
			12-Feb-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
			2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
			20-Nov-20	0.2 U	0.2 U	0.33 J	0.2 U	0.2 U
MW-08(S)	Leading Edge	29 - 39	2-Jan-20	0.2 U	0.2 U	46	6.5	0.2 U
			12-Feb-20	0.2 U	0.2 U	37	5.7	0.2 U
			2-Jun-20	0.2 U	0.2 U	25	3.8	0.2 U
			10-Nov-20	0.2 U	0.2 U	79	8.2	0.2 U
MW-08D(I)	Western	43 - 53	2-Jan-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
			12-Feb-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
			2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-16(S)	Western	20 - 30	2-Jun-20	0.97 J	20	5.3	0.62 J	20
			10-Nov-20	0.58 J	7.3	4.4	0.52 J	11
MW-17(I)	Western	38 - 48	2-Jun-20	0.2 U	0.2 U	0.63 J	0.2 U	0.2 U
			10-Nov-20	0.2 U	0.2 U	0.61 J	0.2 U	0.2 U
MW-P1(S)	On Site	21 - 31	3-Jun-20	56	38	0.39 J	0.2 U	38
GSSMW-02(S)	Western	17.2 - 27.7	2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
GSSMW-04(I)	Eastern	38 -48	1-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
GSSMW-05(I)	Northern	68.7 - 78.7	2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.58 J
GSSMW-08(I)	Compliance	23 - 38	2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
			10-Nov-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
GSSMW-09(I)	Compliance	27 - 37	2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
			10-Nov-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
GSSMW-10(I)	Western	27 -37	2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
GSSMW-12(D)	On Site	77 - 97	3-Jun-20	4.2	20	1.3	0.2 U	20
			11-Nov-20	6.1	25	1.3	0.2 U	28
GSSMW-13(D)	On Site	73.5 - 93.5	3-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
GSSMW-14(D)	Western	84 - 94	1-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
GSSMW-15(I)	Western	24 - 34	2-Jun-20	12	72	27	2.1	60
			10-Nov-20	17	108	19	1.2	96
GSS-P2(D)	Western	41.5 - 61.5	2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
GSS-P3(D)	Western	55 - 65	1-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PW-01(D)	VOG Well	75 - 95	1-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PW-02(D)	VOG Well	67 - 93	1-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PW-03A(D)	VOG Well	46-61, 71-91	2-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PW-04(D)	VOG Well	65 - 92	1-Jun-20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Notes:
All results expressed in micrograms per liter (ug/L).
MCL - Maximum contaminant level; TCE - Trichloroethene; cDCE - cis-1,2-Dichloroethene
PCE - Tetrachloroethene; tDCE - trans-1,2-Dichloroethene; TCA - 1,1,1-Trichloroethane
J,I - Sample result is estimated
U - Result is considered not detected due to trip blank exceedance or was analyzed for, but not detected above the detection limit.
(S), (I), (D) :Screen interval is shallow, intermediate, or deep
: Exceedance of MCL
: Leading-Edge Well
: Compliance Well

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
MW-01(S)	30-Jan-91	95		369		---		---		1160	
	26-Mar-91	110		349		---		---		1020	
	8-Oct-91	38.2		---		0.7		---		---	
	22-Jan-92	70		260		---		---		990	
	19-Jun-92	60		160		---		---		850	
	13-May-94	92		290		---		---		770	
	13-May-96	74		230		---		---		450	J
	6-May-97	33		100		---		---		280	
	5-May-98	190		210		---		---		300	
	10-May-99	40		140		---		---		270	
	15-May-00	34		140		---		---		280	
	23-May-01	28		110		---		---		290	
	6-May-02	26		70		---		---		170	
	5-May-03	18		53		---		---		120	
	28-Sep-16	11		16		---		---		48	
	20-Jul-17	11	J	16	J	0.5	UJ	0.5	UJ	45	J
	8-Aug-18	12		16		0.2	U	0.2	U	40	
	16-Jul-19	13		16		0.2	U	0.2	U	45	
	1-Jun-20	10		16		0.2	U	0.2	U	46	
MW-02(S)	30-Jan-91	85		54		412		12		600	
	26-Mar-91	172		950		857		23		1060	
	12-May-94	310		1200		770		---		910	
	28-Sep-16	78		230		21		1.5		110	
	19-Jul-17	78	J	220	J	27	J	5.3	J	130	J
	20-Dec-17	79		160		24		1.9		120	
	9-Aug-18	110		310		18		1.4		130	
	14-Nov-18	82		240		18		1.2		110	
	18-Jul-19	93		270		14		0.92	J	120	
	19-Nov-19	160		440		20		1.5		200	
	3-Jun-20	61		200		7.7		0.67	J	82	
	11-Nov-20	140		510		19		1.4		190	
MW-02D(I)	19-Jun-92	680		1600		820		---		1300	
	13-May-94	280		1000		660		---		800	
	8-May-96	390		450		140		---		250	
	5-May-97	400		380		110		---		220	
	5-May-98	190		220		40		---		120	
	10-May-99	210		220		42		---		120	
	15-May-00	230		170		38		2.6	J	93	
	23-May-01	160		120		13		---		55	
	6-May-02	130		90		10		---		40	
	6-May-03	68		34		7		---		17	
	10-May-04	110		59		17		1.7	U	36	
	10-Aug-05	51		63		16		0.84	U	31	
	4-May-06	69		60		15		2.5	U	29	
	20-Jul-06	130		130		28		1.3	U	71	
	16-May-07	150		120		28		1.5		71	
	25-Sep-07	140		150		38		1.7		81	
	25-Apr-08	180		190		48		2.1		120	
	5-Sep-08	150		180		2		2.5		98	
	31-Mar-09	150		220		43		2.6		110	
	15-Sep-09	140		190		35		2.4		100	
	11-May-11	130		200		30		1.5		110	
	3-Nov-11	180		350		41		2.4		200	
	30-May-12	190		320		32		0.1		190	
	14-Nov-12	120		260		35		2		140	
	13-Jun-13	140		310		43		2.4		140	
	2-Dec-15	230		580		25		1.4		270	
	30-Sep-16	150		360		20		1.5		160	
	19-Jul-17	100	J	270	J	30	J	5.3	J	150	J
	20-Dec-17	170		500		24		2.2		220	
	9-Aug-18	170		400		24		1.3		180	
	14-Nov-18	140		410		18		1.1		170	
	18-Jul-19	120		340		17		0.99	J	150	
	19-Nov-19	240		620		17		1.3		270	
	3-Jun-20	180		470		12		1.2		200	
	11-Nov-20	270		670		15		1.1		270	

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
MW-03(S)	30-Jan-91	0.8		19.9		5.9		---		1.8	
	26-Mar-91	---		20.0		---		---		---	
	8-Oct-91	1.1		27.6		3.9		---		3.3	
	22-Jan-92	---		12.0		---		---		2.0	J
	19-Jun-92	---		---		---		---		---	
	12-May-94	---		5.0		1		---		---	
	6-May-02	---		1.3		---		---		---	
	27-Sep-16	---		---		---		---		---	
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	8-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	3-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
MW-04DR(S)	20-Jul-17	22	J	68	J	1.7	J	0.5	UJ	36	J
	20-Dec-17	29		100		0.43	J	0.2	U	43	
	9-Aug-18	24		53		0.2	U	0.2	U	22	
	14-Nov-18	18		27		0.2	U	0.2	U	12	
	18-Jul-19	16		30		0.2	U	0.2	U	11	
	19-Nov-19	23		70		0.2	U	0.2	U	29	
	3-Jun-20	6.2		15		0.2	U	0.2	U	5.1	
	10-Nov-20	24		73		0.32	J	0.2	U	31	
MW-04D2(I)	19-Jun-92	177		136		110		--		140	
	13-May-94	120		52		120		---		40	
	8-May-96	---		---		---		---		---	
	6-May-97	0.92		---		---		---		---	
	10-May-99	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	23-May-01	0.26	J	---		---		---		---	
	27-Feb-02	---		---		---		---		---	
	6-May-02	---		---		---		---		---	
	5-Aug-02	---		---		---		---		---	
	6-Nov-02	---		---		---		---		---	
	26-Feb-03	---		---		---		---		---	
	6-May-03	---		---		---		---		---	
	27-Aug-03	---		---		---		---		---	
	28-Sep-16	18		11		40		2.2		---	
	20-Jul-17	16	J	11	J	36	J	7.5	J	13	J
	20-Dec-17	15		12		44		2.4		12	
	9-Aug-18	20		14		47		2.1		12	
	14-Nov-18	14		8.8		26		1.2		7.5	
	18-Jul-19	26		13		50		1.9		11	
	19-Nov-19	0.91	J	0.46	J	0.2	U	0.2	U	1.1	
	3-Jun-20	23		11		24		1.1		8.5	
	10-Nov-20	55		19		34		1.1		12	
MW-05(S)	8-Oct-91	---		---		---		---		---	
	22-Jan-92	2.0	J	---		NA		---		---	
	19-Jun-92	---		---		---		---		---	
	13-May-64	2.0		2.0		---		---		2.0	
	13-May-96	---		---		---		---		0.7	
	6-May-97	---		---		---		---		---	
	5-May-98	---		---		---		---		0.7	
	10-May-99	---		---		---		---		0.6	
	15-May-00	---		---		---		---		0.36	J
	23-May-01	---		---		---		---		1.7	
	7-May-02	---		---		---		---		1.7	
	6-May-03	0.91		---		---		---		---	
	27-Sep-16	---		---		---		---		---	
	20-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	1	UJ
	8-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	3-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
MW-06(I)	8-Oct-91	9.8		---		8.5		---		---	
	22-Jan-92	28		1200		---		---		2600	
	19-Jun-92	40		1000		---		---		1900	
	13-May-94	36		880		---		---		1500	
	8-May-96	---		78		---		---		380	
	6-May-97	---		47		---		---		430	
	5-May-98	---		36		---		---		370	
	10-May-99	---		23		---		---		330	
	15-May-00	---		26		---		---		320	
	23-May-01	---		31		---		---		340	
	6-May-02	---		19		---		---		230	
	26-Feb-03	---		---		---		---		---	
	5-May-03	---		20		---		---		200	
	10-May-04	---		10		---		---		180	
	10-Aug-05	---		8		---		---		130	
	4-May-06	2.8		12		---		---		130	
	20-Jul-06	---		10		---		---		170	
	17-May-07	---		13		---		---		220	
	25-Sep-07	0.62		17		---		---		220	
	25-Apr-08	0.61		16		---		---		180	
	5-Sep-09	0.62		16		---		---		180	
	31-Mar-09	0.49		13		---		---		180	
	5-Sep-09	0.83		19		---		---		170	
	11-May-11	0.68		16		---		---		140	
	3-Nov-11	0.81		14		---		---		130	
	1-Jun-12	---		15		---		---		150	
	14-Nov-12	5	U*	19		---		---		220	
	13-Jun-13	0.8		19		---		---		170	
	4-Dec-13	0.45	J	14		---		---		160	
	2-Dec-15	0.66		15		---		---		190	
	28-Sep-16	---		18		---		---		150	H
	19-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	190	J
	8-Aug-18	0.2	U	19		0.2	U	0.2	U	170	
	18-Jul-19	0.32	J	22		0.2	U	0.2	U	190	
	2-Jun-20	0.2	U	16		0.2	U	0.2	U	170	
MW-06D(D)	19-Jun-92	---		6		---		---		23	
	13-May-94	10		14		2		---		9	
	14-May-96	---		0.4	J	---		---		---	
	10-May-99	NS		NS		NS		NS		NS	
	15-May-00	NS		NS		NS		NS		NS	
	23-May-01	NS		NS		NS		NS		NS	
	6-May-02	NS		NS		NS		NS		NS	
	28-Sep-16	---		---		---		---		---	
	19-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	8-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
MW-07(S)	8-Oct-91	1.6		3.9		1.3		---		1	
	22-Jan-92	---		---		---		---		8	
	19-Jun-92	---		---		---		---		---	
	27-Apr-93	---		---		---		---		---	
	5-Aug-93	---		---		---		---		---	
	12-May-94	---		---		---		---		---	
	13-May-96	---		---		---		---		---	
	10-May-99	NS		NS		NS		NS		NS	
	15-May-00	NS		NS		NS		NS		NS	
	23-May-01	NS		NS		NS		NS		NS	
	6-May-02	NS		NS		NS		NS		NS	
	4-May-06	1.6		---		---		---		---	
	17-May-07	---		---		---		---		---	
	2-Dec-15	---		---		---		---		---	
	29-Sep-16	---	H	---	H	---	H	---	H	---	H
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
MW-07D(I)	8-Oct-91	---		---		---		---		---	
	22-Jan-92	---		---		---		---		---	
	19-Jun-92	---		---		---		---		---	
	27-Apr-93	---		---		---		---		---	
	12-May-94	---		---		---		---		---	
	8-May-96	---		---		---		---		---	
	5-May-97	---		---		---		---		---	
	4-May-98	---		---		---		---		---	
	10-May-99	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	23-May-01	---		---		---		---		---	
	6-May-02	---		---		---		---		---	
	5-May-03	---		---		---		---		---	
	10-May-04	---		---		---		---		---	
	10-Aug-05	---		---		---		---		---	
	4-May-06	---		---		---		---		---	
	19-Jul-06	---		---		---		---		---	
	17-May-07	---		---		---		---		---	
	25-Sep-07	---		---		---		---		---	
	25-Apr-08	---		---		---		---		---	
	5-Sep-08	---		---		---		---		---	
	31-Mar-09	---		---		---		---		---	
	14-Sep-09	---		---		---		---		---	
	10-May-11	---		---		---		---		---	
	3-Nov-11	---		---		---		---		---	
	1-Jun-12	---		---		---		---		---	
	13-Nov-12	---		---		---		---		---	
	14-Jun-13	---		---		---		---		---	
	5-Dec-13	---		---		---		---		---	
	2-Dec-15	---		---		---		---		---	
	29-Sep-16	---	H	---	H	---	H	---	H	---	H
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	20-Dec-17	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	14-Nov-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	19-Nov-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jan-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	12-Feb-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	10-Nov-20	0.2	U	0.2	U	0.33	J	0.2	U	0.2	U

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
MW-08(S)	19-Jun-92	---		---		---		---		---	
	27-Apr-93	---		---		28		3	J	---	
	5-Aug-93	---		---		NA		NA		---	
	12-May-94	---		---		32		3		---	
	8-May-96	---		---		---		---		---	
	6-Sep-96	---		---		44		5		---	
	10-Dec-96	---		---		49		5		---	
	19-Feb-97	---		---		55		5.8		---	
	5-May-97	---		---		51		5.4		---	
	12-Aug-97	---		0.9		36		3.0		---	
	12-Dec-97	---		---		56		6.0		---	
	1-Feb-98	---		---		50		5.4		---	
	4-May-98	---		---		44		4.0		---	
	6-Aug-98	---		---		51		5.4		---	
	19-Nov-98	---		---		65		1.0		---	
	5-Feb-99	---		---		45		3.3		---	
	10-May-99	---		---		29		2.4		---	
	5-Aug-99	---		---		79		8.0		---	
	4-Nov-99	---		---		---		---		---	
	2-Feb-00	---		---		85		9.9		---	
	15-May-00	---		---		99		10.0		---	
	21-Aug-00	---		---		76		8.2		---	
	7-Nov-00	---		---		76		8.2		---	
	5-Feb-01	---		---		61		6.0		---	
	23-May-01	---		---		69		7.4		---	
	1-Aug-01	---		---		62		6.1		---	
	28-Nov-01	---		---		68		7.8		---	
	27-Feb-02	---		---		68		6.9		---	
	6-May-02	---		---		45		3.8		---	
	5-Aug-02	---		---		60		5.0		---	
	5-Nov-02	---		---		67		6.8		---	
	26-Feb-03	---		---		77		7.8		---	
	5-May-03	---		---		69		7.0		---	
	27-Aug-03	---		---		56		6.4		---	
	11-Nov-03	---		---		74		7.2		---	
	3-Feb-04	---		---		53		4.8		---	
	10-May-04	---		---		46		4.3		---	
	4-Aug-04	---		---		70		7.2		---	
	1-Feb-05	---		---		24		2.1		---	
	11-Aug-05	---		---		36		3.6		---	
	4-May-06	---		---		45		4.7		---	
	20-Jul-06	---		---		28		3.1		---	
	16-May-07	---		---		26		2.3		---	
	25-Sep-07	---		---		73		9.3		---	
	25-Apr-08	---		---		24		2.6		---	
	5-Sep-08	---		---		34		3.7		---	
	31-Mar-09	---		---		40		5.1		---	
	14-Sep-09	---		---		68		8.9		---	
	10-May-11	---		---		36		5.1		---	
	3-Nov-11	---		---		34		4.5		---	
	31-May-12	---		---		17		2.0		---	
	13-Nov-12	---		---		70		8.2		---	
	14-Jun-13	---		---		32		4.1		---	
	5-Dec-13	---		---		23		3.3		---	
	3-Dec-15	---		---		46		7.2		---	
	29-Sep-16	---	H	---	H	47	H	8.3	H	---	H
	19-Jul-17	0.5	UJ	0.5	UJ	33	J	8.9	J	0.5	UJ
	20-Dec-17	0.2	U	0.2	U	20		3.5		0.2	U
	8-Aug-18	0.2	U	0.2	U	43		6.1		0.2	U
	13-Nov-18	0.2	U	0.2	U	29		4.1		0.2	U
	16-Jul-19	0.2	U	0.2	U	4.3		0.54	J	0.31	J
	18-Nov-19	0.2	U	0.2	U	72		10		0.2	U
	2-Jan-20	0.2	U	0.2	U	46		6.5		0.2	U
	12-Feb-20	0.2	U	0.2	U	37		5.7		0.2	U
	2-Jun-20	0.2	U	0.2	U	25		3.8		0.2	U
	10-Nov-20	0.2	U	0.2	U	79		8.2		0.2	U

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
MW-08D(I)	19-Jun-92	---		---		---		---		---	
	27-Apr-93	---		---		---		---		---	
	12-May-94	---		---		---		---		---	
	14-May-96	---		---		---		---		---	
	10-May-99	NS		NS		NS		NS		NS	
	15-May-00	NS		NS		NS		NS		NS	
	23-May-01	NS		NS		NS		NS		NS	
	6-May-02	NS		NS		NS		NS		NS	
	29-Sep-16	---	H	---	H	---	H	---	H	---	H
	19-Jul-17	0.5	UJ	0.5	UJ	1	UJ	0.5	UJ	0.5	UJ
	8-Aug-18	0.2	U	0.2	U	0	U	0.2	U	0.2	U
	16-Jul-19	0.2	U	0.2	U	0	U	0.2	U	0.2	U
	2-Jan-20	0.2	U	0.2	U	0	U	0.2	U	0.2	U
	12-Feb-20	0.2	U	0.2	U	0	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0	U	0.2	U	0.2	U
MW-16(S)	20-Jul-17	0.5	UJ	2.6	UJ	2.5	J	0.6	J	4.8	UJ
	20-Dec-17	0.2	U	2.9		2.9		0.5	J	4.4	
	8-Aug-18	0.47	I	5.6		2.3		0.4	I	5.9	
	13-Nov-18	0.36	J	4.2		2.3		0.2	U	4.7	
	17-Jul-19	1.2		18		4.2		0.4	J	17.0	
	18-Nov-19	0.2	U	5.1		2.7		0.2	U	6.2	
	2-Jun-20	0.97	J	20		5.3		0.6	J	20.0	
	10-Nov-20	0.58	J	7.3		4.4		0.5	J	11.0	
MW-17(I)	20-Jul-17	0.5	UJ	0.5	UJ	0.6	J	0.5	UJ	0.6	UJ
	20-Dec-17	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	8-Aug-18	0.2	U	0.2	U	0.5	I	0.2	U	0.2	U
	13-Nov-18	0.2	U	0.2	U	0.5	J	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.81	J	0.2	U	0.2	U
	18-Nov-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.63	J	0.2	U	0.2	U
	10-Nov-20	0.2	U	0.2	U	0.61	J	0.2	U	0.2	U
MW-P1(S)	13-May-94	1400		6200		600		--		1800	
	8-May-96	540		1400		---		---		720	
	6-May-97	340		730		---		---		460	
	5-May-98	370		550		---		---		380	
	10-May-99	170		380		--		--		350	
	15-May-00	160		420		---		---		300	
	23-May-01	180		330		---		---		300	
	27-Feb-02	94		150		---		---		150	
	6-May-02	110		140		---		---		130	
	5-Aug-02	100		120		---		---		130	
	6-Nov-02	120		110		---		---		82	
	26-Feb-03	100		88		---		---		86	
	6-May-03	100		88		---		---		100	
	27-Aug-03	110		56		---		---		60	
	10-May-04	53		55		---		---		160	
	10-Aug-05	60		41		---		---		60	
	4-May-06	45		36		---		---		38	
	19-Jul-06	43		32		---		---		35	
	16-May-07	50		36		---		---		39	
	25-Sep-07	88		42		---		---		55	
	25-Apr-08	19		21		2.3		---		12	
	5-Sep-08	42		32		1.3		---		27	
	31-Mar-09	41		27		---		0.33		22	
	14-Sep-09	67		38		1.5		---		31	
	11-May-11	83		34		1.9		---		29	
	2-Nov-11	45		33		1.6		---		22	
	30-May-12	54		33		---		---		30	
	13-Nov-12	63		34		---		---		27	
	13-Jun-13	49		41		0.7		---		28	
	5-Dec-13	67		40		---		---		29	
	2-Dec-15	68		40		---		---		28	
	27-Sep-16	54	H	32		---		---		---	
	19-Jul-17	35	J	33	J	0.5	UJ	0.5	UJ	34	J
	9-Aug-18	52		48		0.44	I	0.2	U	26	
	18-Jul-19	38		51		2.1		0.2	U	26	
	3-Jun-20	56		38		0.39	J	0.2	U	38	

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
GSSMW-02(S)	8-May-96	---		---		---		---		---	
	10-Dec-96	---		---		---		---		---	
	5-May-97	---		---		---		---		---	
	11-Dec-97	---		---		---		---		---	
	4-May-98	---		---		---		---		---	
	19-Nov-98	---		---		---		---		---	
	10-May-99	---		---		---		---		---	
	4-Nov-99	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	7-Nov-00	---		---		---		---		---	
	23-May-01	---		---		---		---		---	
	28-Nov-01	---		---		---		---		---	
	6-May-02	---		---		---		---		---	
	5-Nov-02	---		---		---		---		---	
	5-May-03	---		---		---		---		---	
	12-Nov-03	---		---		---		---		---	
	28-Sep-16	---		---		---		---		---	
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
GSSMW-04(I)	13-May-96	---		---		---		---		---	
	10-Dec-96	---		---		---		---		---	
	12-Dec-97	---		---		---		---		---	
	4-May-98	---		---		---		---		---	
	19-Nov-98	---		---		---		---		---	
	10-May-99	---		---		---		---		---	
	4-Nov-99	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	7-Nov-00	---		---		---		---		---	
	23-May-01	---		---		---		---		---	
	28-Nov-01	---		---		---		---		---	
	6-May-02	---		---		---		---		---	
	6-Nov-02	---		---		---		---		---	
	5-May-03	---		---		---		---		---	
	12-Nov-03	---		---		---		---		---	
	27-Sep-16	---		---		---		---		---	
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	9-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
GSSMW-05(I)	13-May-96	---		---		---		---		---	
	10-Dec-96	---		---		---		---		---	
	5-May-97	---		---		---		---		---	
	12-Dec-97	---		---		---		---		---	
	4-May-98	---		---		---		---		---	
	19-Nov-98	---		---		---		---		---	
	10-May-99	---		---		---		---		---	
	4-Nov-99	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	7-Nov-00	---		---		---		---		---	
	23-May-01	---		---		---		---		---	
	28-Nov-01	---		---		---		---		---	
	6-May-02	---		---		---		---		---	
	6-Nov-02	---		---		---		---		---	
	5-May-03	---		---		---		---		---	
	12-Nov-03	---		---		---		---		---	
	30-Sep-16	---		---		---		---		---	
	19-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	8-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.58	J

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
GSSMW-08(I)	9-May-96	---		---		---		---		---	
	27-Aug-96	---		---		---		---		---	
	10-Dec-96	---		---		---		---		---	
	19-Feb-97	---		---		---		---		---	
	5-May-97	---		---		---		---		---	
	12-Aug-97	---		0.58		---		---		---	
	11-Dec-97	---		---		---		---		---	
	1-Feb-98	---		---		---		---		---	
	4-May-98	---		---		---		---		---	
	6-Aug-98	---		---		---		---		---	
	19-Nov-98	---		---		---		---		---	
	5-Feb-99	---		---		---		---		---	
	10-May-99	---		---		---		---		---	
	5-Aug-99	---		---		---		---		---	
	4-Nov-99	NS		NS		NS		NS		NS	
	2-Feb-00	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	21-Aug-00	---		---		---		---		---	
	5-Feb-01	---		---		---		---		---	
	23-May-01	---		---		---		---		---	
	1-Aug-01	---		---		---		---		---	
	28-Nov-01	---		---		---		---		---	
	27-Feb-02	---		---		---		---		---	
	6-May-02	---		---		---		---		---	
	5-Aug-02	---		---		---		---		---	
	5-Nov-02	---		---		---		---		---	
	26-Feb-03	---		---		---		---		---	
	5-May-03	---		---		---		---		---	
	27-Aug-03	---		---		---		---		---	
	11-Nov-03	---		---		---		---		---	
	3-Feb-04	---		---		---		---		---	
	10-May-04	---		---		---		---		---	
	4-Aug-04	---		---		---		---		---	
	1-Feb-05	---		---		---		---		---	
	11-Aug-05	---		---		---		---		---	
	4-May-06	---		---		---		---		---	
	20-Jul-06	---		---		---		---		---	
	17-May-07	---		---		---		---		---	
	25-Sep-07	---		---		---		---		---	
	25-Apr-08	---		---		---		---		---	
	4-Sep-08	---		---		---		---		---	
	30-Mar-09	---		---		---		---		---	
	14-Sep-09	---		---		---		---		---	
	10-May-11	---		---		---		---		---	
	3-Nov-11	---		---		---		---		---	
	31-May-12	---		---		---		---		---	
	13-Nov-12	---		---		---		---		---	
	14-Jun-13	---		---		---		---		---	
	5-Dec-13	---		---		---		---		---	
	2-Dec-15	---		---		---		---		---	
	29-Sep-16	---	H	---	H	---	H	---	H	---	H
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	20-Dec-17	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	13-Nov-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	19-Nov-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	10-Nov-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
GSSMW-09(I)	9-May-96	---		---		---		---		---	
	27-Aug-96	---		---		---		---		---	
	10-Dec-96	---		---		---		---		---	
	19-Feb-97	---		---		---		---		---	
	5-May-97	---		---		---		---		---	
	12-Aug-97	---		---		---		---		---	
	11-Dec-97	---		---		---		---		---	
	1-Feb-98	---		---		---		---		---	
	4-May-98	---		---		---		---		---	
	6-Aug-98	---		---		---		---		---	
	19-Nov-98	---		---		---		---		---	
	5-Feb-99	---		---		---		---		---	
	10-May-99	---		---		---		---		---	
	5-Aug-99	---		---		---		---		---	
	4-Nov-99	---		---		---		---		---	
	2-Feb-00	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	21-Aug-00	---		---		---		---		---	
	7-Nov-00	---		---		---		---		---	
	5-Feb-01	---		---		---		---		---	
	23-May-01	---		---		---		---		---	
	1-Aug-01	---		---		---		---		---	
	28-Nov-01	---		---		---		---		---	
	27-Feb-02	---		---		---		---		---	
	6-May-02	---		---		---		---		---	
	5-Aug-02	---		---		---		---		---	
	5-Nov-02	---		---		---		---		---	
	26-Feb-03	---		---		---		---		---	
	5-May-03	---		---		---		---		---	
	27-Aug-03	---		---		---		---		---	
	11-Nov-03	---		---		---		---		---	
	3-Feb-04	---		---		---		---		---	
	10-May-04	---		---		---		---		---	
	4-Aug-04	---		---		---		---		---	
	1-Feb-05	---		---		---		---		---	
	11-Aug-05	---		---		---		---		---	
	4-May-06	---		---		---		---		---	
	20-Jul-06	---		---		---		---		---	
	16-May-07	---		---		---		---		---	
	25-Sep-07	---		---		---		---		---	
	25-Apr-08	---		---		---		---		---	
	5-Sep-08	---		---		---		---		---	
	31-Mar-09	---		---		---		---		---	
	14-Sep-09	---		---		---		---		---	
	10-May-11	---		---		---		---		---	
	31-May-12	---		---		---		---		---	
	13-Nov-12	---		---		---		---		---	
	14-Jun-13	---		---		---		---		---	
	5-Nov-02	---		---		---		---		---	
	2-Dec-15	---		---		---		---		---	
	29-Sep-16	---	H	---	H	---	H	---	H	---	H
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	20-Dec-17	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	14-Nov-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	19-Nov-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	10-Nov-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
GSSMW-10(I)	9-May-96	---		---		---		---		---	
	27-Aug-96	---		---		---		---		---	
	10-Dec-96	---		---		---		---		---	
	19-Feb-97	---		---		---		---		---	
	5-May-97	---		---		---		---		---	
	12-Aug-97	---		0.7		---		---		---	
	11-Dec-97	---		---		---		---		---	
	1-Feb-98	---		---		---		---		---	
	4-May-98	---		---		---		---		---	
	6-Aug-98	---		---		---		---		---	
	19-Nov-98	---		---		---		---		---	
	5-Feb-99	---		---		---		---		---	
	10-May-99	---		---		---		---		---	
	5-Aug-99	---		---		---		---		---	
	4-Nov-99	---		---		---		---		---	
	2-Feb-00	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	21-Aug-00	---		---		---		---		---	
	7-Nov-00	---		---		---		---		---	
	23-May-01	---		---		---		---		---	
	1-Aug-01	---		---		---		---		---	
	28-Nov-01	---		---		---		---		---	
	27-Feb-02	---		---		---		---		---	
	6-May-02	---		---		---		---		---	
	5-Aug-02	---		---		---		---		---	
	5-Nov-02	---		---		---		---		---	
	26-Feb-03	---		---		---		---		---	
	5-May-03	---		---		---		---		---	
	27-Aug-03	---		---		---		---		---	
	11-Nov-03	---		---		---		---		---	
	29-Sep-16	---	H	---	H	---	H	---	H	---	H
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
GSSMW-12(D)	8-May-96	---		---		---		---		---	
	6-May-97	0.44	J	---		---		---		---	
	5-May-98	---		---		---		---		---	
	10-May-99	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	23-May-01	---		---		---		---		---	
	7-May-02	---		---		---		---		---	
	6-May-03	---		---		---		---		---	
	28-Sep-16	---		---		---		---		---	
	19-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	9-Aug-18	5.9		17		1.6		0.24	I	14	
	14-Nov-18	4.3		17		2.1		0.23	J	18	
	18-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	19-Nov-19	7.5		34		2.4		0.34	J	36	
	3-Jun-20	4.2		20		1.3		0.2	U	20	
	11-Nov-20	6.1		25		1.3		0.2	U	28	
GSSMW-13(D)	8-May-96	---		---		---		---		---	
	6-May-97	0.44	J	---		---		---		---	
	5-May-98	---		---		---		---		---	
	10-May-99	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	23-May-01	---		---		---		---		---	
	1-Aug-01	---		---		---		---		---	
	7-May-02	---		---		---		---		---	
	6-May-03	---		---		---		---		---	
	28-Sep-16	---		---		---		---		---	
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	9-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	18-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	3-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
GSSMW-14(D)	9-May-96	---		---		---		---		---	
	27-Aug-96	---		---		---		---		---	
	10-Dec-96	---		---		---		---		---	
	19-Feb-97	---		---		---		---		---	
	5-May-97	0.44	J	---		---		---		---	
	12-Aug-97	---		---		---		---		---	
	11-Dec-97	---		---		---		---		---	
	1-Feb-98	---		---		---		---		---	
	4-May-98	---		---		---		---		---	
	6-Aug-98	---		---		---		---		---	
	19-Nov-98	---		---		---		---		---	
	5-Feb-99	---		---		---		---		---	
	10-May-99	---		---		---		---		---	
	5-Aug-99	---		---		---		---		---	
	4-Nov-99	---		---		---		---		---	
	2-Feb-00	---		---		---		---		---	
	15-May-00	---		---		---		---		---	
	21-Aug-00	---		---		---		---		---	
	7-Nov-00	---		---		---		---		---	
	23-May-01	---		---		---		---		---	
	1-Aug-01	---		---		---		---		---	
	28-Nov-01	---		---		---		---		---	
	27-Feb-02	---		---		---		---		---	
	6-May-02	---		---		---		---		---	
	5-Aug-02	---		---		---		---		---	
	5-Nov-02	---		---		---		---		---	
	26-Feb-03	---		---		---		---		---	
	5-May-03	---		---		---		---		---	
	27-Aug-03	---		---		---		---		---	
	12-Nov-03	---		---		---		---		---	
	29-Sep-16	---	H	---	H	---	H	---	H	---	H
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
GSSMW-15(I)	9-Sep-05	6.1		25		6.1		---		21	
	4-May-06	7.2		22		4.1		---		19	
	14-Jun-06	13		23		6.0		---		19	
	19-Jul-06	8.6		24		7.1		---		18	
	16-May-07	7.8		37		13		0.74		30	
	25-Sep-07	12		35		9.9		0.67		33	
	25-Apr-08	11		41		17		1.2		35	
	5-Sep-08	12		47		19		1.2		37	
	31-Mar-09	8.9		35		8.9		0.61		30	
	15-Sep-09	26		38		11		0.72		30	
	11-May-11	12		44		11		0.74		34	
	3-Nov-11	9.1		32		12		0.94		29	
	30-May-12	9.2		43		20		1.4		42	
	13-Nov-12	10		49		17		0.93		45	
	14-Jun-13	11		50		15		0.98		44	
	6-Dec-13	13		61		20		1.6		46	
	3-Dec-15	11		55		19		1.7		45	
	30-Sep-16	11		50		18		1.7		---	
	19-Jul-17	10	J	43	J	22	J	4.6	J	45	J
	20-Dec-17	6.9		53		27		2.6		44	
	8-Aug-18	10.0		54		26		2.1		42	
	13-Nov-18	9.1		51		27		2.1		42	
	17-Jul-19	13.0		62		23		1.6		49	
	18-Nov-19	16.0		85		21		1.5		71	
	2-Jun-20	12.0		72		27		2.1		60	
	10-Nov-20	17.0		108		19		1.2		96	

Table 4. Summary of Historical Groundwater Analytical Results
Granville Solvents Site; Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)		TCE (µg/L)		cDCE (µg/L)		tDCE (µg/L)		TCA (µg/L)	
	MCLs:	5		5		70		100		200	
GSS-P2(D)	28-Sep-16	---		---		---		---		---	
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
GSS-P3(D)	29-Sep-16	---	H	---	H	---	H	---	H	---	H
	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PW-01(D)	18-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PW-02(D)	30-Sep-16	---		---		---		---		---	
	17-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	8-Jul-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PW-03A(D)	30-Sep-16	---		---		---		---		---	
	17-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
PW-04(D)	30-Sep-16	---		---		---		---		---	
	17-Jul-17	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
	7-Aug-18	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	17-Jul-19	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1-Jun-20	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Notes:

All results expressed in micrograms per liter (µg/L)

Abandoned wells not shown

MCL - Federal drinking water Maximum Contaminant Level

PCE - Tetrachloroethene; TCE - Trichloroethene; cDCE - cis-1,2-Dichloroethene

tDCE - trans-1,2-Dichloroethene; TCA - 1,1,1-Trichloroethane

---, U: Results are non-detect at reporting limit shown (if available, otherwise ---).

* - Lab attributed a Dilution Factor of 10 to this sample resulting in an elevated reporting limit

H - Sample was prepped/analyzed beyond the specified holding time.

J,I - Sample result is laboratory flagged as estimated

NA - Not analyzed.

NS - Not sampled.

Table 5. Groundwater Monitoring Plan - Proposed
Granville Solvents, Inc. Site; Granville, Ohio

		2021 Monitoring Plan			2022 Monitoring Plan		
Monitoring Location	General Depth, and Screen Interval (ft bTOC)	Hydraulic / Water Levels	Groundwater Quality Spring 2021	Groundwater Quality Fall 2021	Hydraulic / Water Levels	Groundwater Quality Spring 2022	Groundwater Quality Fall 2022
MW-01(S)	Shallow, 25.5-35.5	XX			XX	✓	
MW-02(S)	Shallow, 13.5-23.5	XX	✓	✓	XX	✓	✓
MW-02D(I)	Intermediate, 23-33	XX	✓	✓	XX	✓	✓
MW-03(S)	Shallow, 7.5-17.5	XX			XX	✓	
MW-04DR(S)	Shallow, 13-23	XX	✓	✓	XX	✓	✓
MW-04D2(I)	Intermediate, 35-45	XX	✓	✓	XX	✓	✓
MW-05(S)	Shallow, 18-28	XX			XX	✓	
MW-06(I)	Intermediate, 38-48	XX			XX	✓	
MW-06D(D)	Deep, 54.5-64.5	XX			XX	✓	
MW-07(S)	Shallow, 15-25	XX			XX	✓	
MW-07D(I)	Intermediate, 26.5-36.5	XX	✓	✓	XX	✓	✓
MW-08(S)	Shallow, 29-39	XX	✓	✓	XX	✓	✓
MW-08D(I)	Intermediate, 43-53	XX			XX	✓	
MW-P1(S)	Shallow, 21-31	XX			XX	✓	
GSSMW-02(S)	Shallow, 17.2-27.7	XX			XX	✓	
GSSMW-04(I)	Intermediate, 38-48	XX			XX	✓	
GSSMW-05(I)	Intermediate, 68.7-78.7	XX			XX	✓	
GSSMW-08(I)	Intermediate, 28-38	XX	✓	✓	XX	✓	✓
GSSMW-09(I)	Intermediate, 27-37	XX	✓	✓	XX	✓	✓
GSSMW-10(I)	Intermediate, 27-37	XX			XX	✓	
GSSMW-12(D)	Deep, 77-97	XX	✓	✓	XX	✓	✓
GSSMW-13(D)	Deep, 73.5-93.5	XX			XX	✓	
GSSMW-14(D)	Deep, 84-94	XX			XX	✓	
GSSMW-15(I)	Intermediate, 24-34	XX	✓	✓	XX	✓	✓
GSS-P2(D)	Deep, 41.5-61.5	XX			XX	✓	
GSS-P3(D)	Deep, 55-65	XX			XX	✓	
MW-16(S)	Shallow, 20-30	XX	✓	✓	XX	✓	✓
MW-17(I)	Intermediate, 38-48	XX	✓	✓	XX	✓	✓
PW-01(D)	Deep, 75-95	XX	✓	✓	XX	✓	✓
PW-02(D)	Deep, 67-93	XX	✓	✓	XX	✓	✓
PW-03A(D)	Deep, 46-61 and 71-91	XX	✓	✓	XX	✓	✓
PW-04(D)	Deep, 65-92	XX	✓	✓	XX	✓	✓
BM-1	Creek Level				X		
BM-2	Creek Level				X		
BM-3	Creek Level				X		

ft bTOC - feet below top of casing
XX - Water Level collected during the Spring and Fall Event
X - Water Level only collected during the Spring Event
✓ - Sample Well

The adequacy of the monitoring plan will be evaluated on an annual basis, and any changes to locations/frequency will be recommended in the Annual Report.

This proposed Groundwater Monitoring Plan includes routine sampling of key wells semiannually, and comprehensive samplking of all wells every other year (Spring Event).

Compliance Well
Leading-Edge Well

FIGURES

Non-Responsive

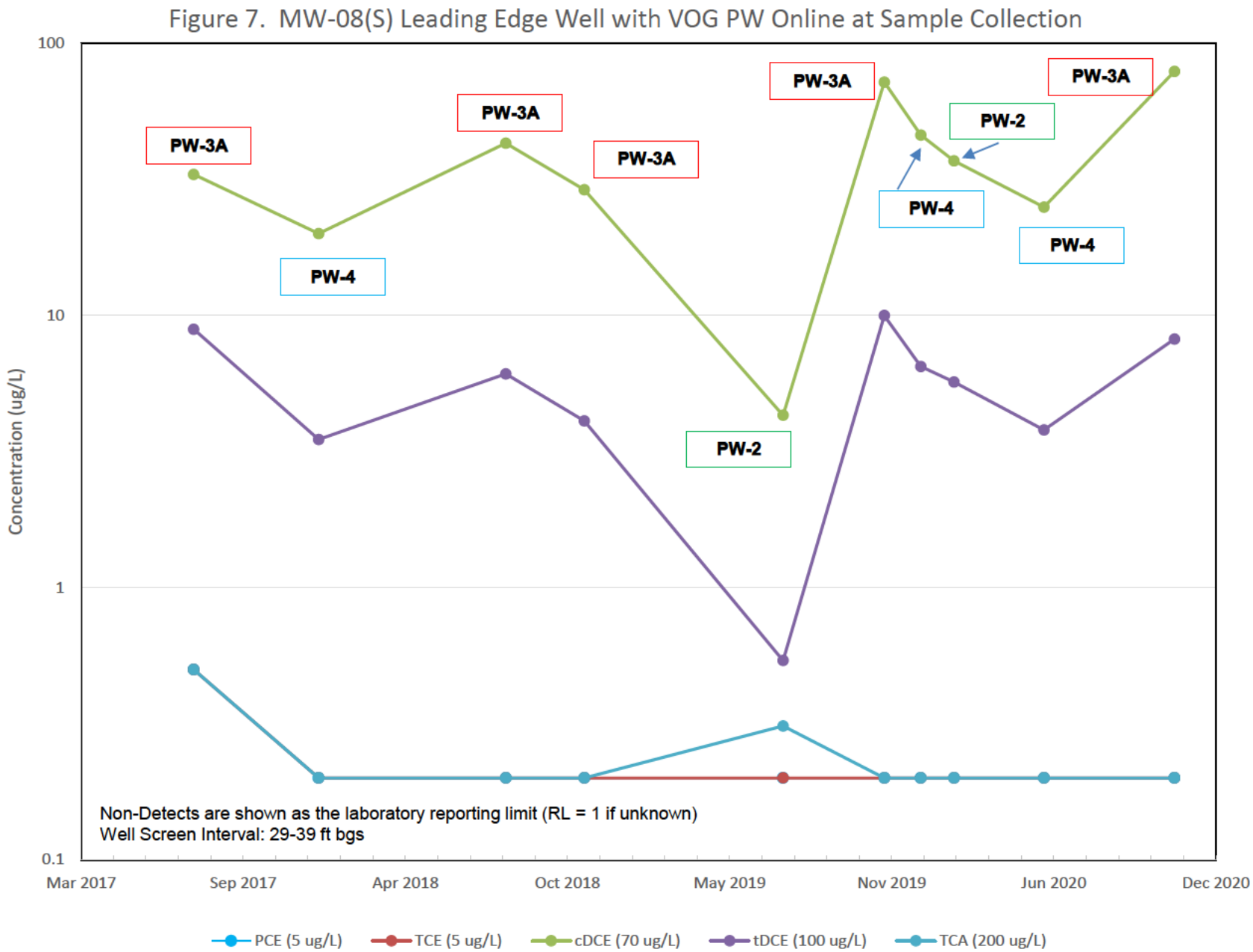
Non-Responsive

Non-Responsive

Non-Responsive

Non-Responsive

Non-Responsive



00068717.XLSX

APPENDIX A

Groundwater Sampling Field Logs

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-08(S)**	PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH — Date: 1-2-2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4 x 1/4"	WELL SCREEN INTERVAL: 29 feet to 39 feet	STATIC DEPTH TO WATER (feet): 30.60	TOTAL DEPTH: 39 feet	PURGE PUMP TYPE ~~OR BAILER~~: BLADDER

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35'	PURGING INITIATED AT: 1014	PURGING ENDED AT: 1036	TOTAL VOLUME PURGED (gallons): 0.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE ~~(gpm or~~ ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm ~~or us/cm)~~	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L ~~or % saturation)~~	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1018	0.16	0.16	150	30.62	6.91	1.04	18.8	3.31	12.3	183	CLEAR / NONE
1023	0.20	0.36		"	6.98	1.05	12.0	2.15	"	171	
1027	0.16	0.52		"	"	"	10.4	1.97	12.4	168	
1030	0.12	0.64		"	"	"	9.9	1.87	12.5	167	
1033	0.12	0.76		"	"	"	8.9	1.73	"	166	
1036	0.12	0.9		"	"	1.06	8.0	1.57	12.4	165	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Z. SECORE / LATA	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1041	SAMPLING ENDED AT: 1043
PUMP OR TUBING DEPTH IN WELL (feet): 35'	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3.785 ml) 150 ml/min.	TUBING MATERIAL CODE: LDPE	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-08(S)	2	CG	40ml	HCL	N/A	N/A	8260B	BP

REMARKS: CONTROLLER SETTINGS - 10R 5D 55' AIR THROTTLE

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-08D(I)**	PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH — Date: 1-2-2020

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH:	PURGE PUMP TYPE ~~OR BAILER~~:
2	1/4 X 1/4	43 feet to 53 feet	30.44	53 feet	BLADDER

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
48	48	1118	1145	1.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE ~~(gpm or~~ ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm ~~or~~ ~~us/cm~~)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1122	0.21	0.21	200	30.44	7.10	1.24	43.8	1.80	11.4	4	CLEAR / NONE
1127	0.16	0.47		"	7.06	1.29	31.1	0.63	12.1	-11	
1130	0.16	0.63		"	"	"	23.0	0.40	12.4	-16	
1133	0.16	0.79		"	"	"	19.0	0.27	12.6	-21	
1136	0.16	0.95		"	7.05	"	18.4	0.18	12.7	-24	
1139	0.16	1.11		"	"	"	15.8	0.12	12.9	-26	
1142	0.16	1.27		"	7.04	"	14.7	0.07	"	-28	
1145	0.16	1.4		"	"	"	14.3	0.03	"	-29	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Z. SECORE / LATA	[signature]	1150	1152

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3.785 ml)	TUBING MATERIAL CODE:
48	200 ml/min.	LDPE

FIELD DECONTAMINATION: (Y) N

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

Filtration Equipment Type: _____

DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-08D(I)	2	CG	40ml	HCL	N/A	N/A	8260B	BLADDER PUMP

REMARKS: CONTROLLER SETTINGS: 10R 50 70' AIR THROTTLE.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-07D(I)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 1-2-2020

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 36.5 feet	PURGE PUMP TYPE ~~OR BAILER~~:
2	1/4	26.5 feet to 36.5 feet	20.46		PERISTALTIC

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
31.5	31.5	1236	1252	1.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (~~gpm or~~ ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm ~~or us/cm~~)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L ~~or % saturation~~)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1243	0.6	0.6	340	20.48	6.93	1.40	36.7	0.36	14.0	141	CLEAR / NONE
1246	0.26	0.86		"	6.92	1.42	34.9	0.18	"	133	
1249	0.26	1.12		"	6.91	1.43	31.5	0.11	14.1	129	
1252	0.26	1.4		"	6.90	1.44	"	0.05	"	125	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Z. SECORE / LATA	[signature]	1257	1300

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE:
31.5	340ml/MIN.	LDPE

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-07D(I)	2	CG	40ml	HCL	N/A	N/A	8260B	PP

REMARKS: DEDICATED 1/4" LDPE TUBING.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-08(S)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 2-12-2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4 X 1/4	WELL SCREEN INTERVAL: 29 feet to 39 feet	STATIC DEPTH TO WATER (feet): 28.94	TOTAL DEPTH: 39 feet	PURGE PUMP TYPE OR BAILER: BLADDER

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 0848	PURGING ENDED AT: 0918	TOTAL VOLUME PURGED (gallons): 1.38

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE ~~(gpm or~~ ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm ~~or~~ ~~us/cm~~)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L ~~or~~ ~~% saturation~~)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0853	0.23	0.23	175	28.91	7.12	1.19	23.3	3.42	8.8	133	CLEAR / NONE
0858	0.23	0.46			7.05	1.24	11.8	0.32	9.4	133	
0903	0.23	0.69			7.04	1.24	11.5	0.23	9.4	134	
0908	0.23	0.92			7.02	1.25	7.4	0.04	9.4	135	
0913	0.23	1.15			7.00	"	7.0	0.08	9.4	136	
0918	0.23	1.38			6.99	"	6.7	"	9.3	137	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. SECORE / LATA	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 0923	SAMPLING ENDED AT: 0925
PUMP OR TUBING DEPTH IN WELL (feet): 35	SAMPLE PUMP FLOW RATE: 1.75 ml/MIN. (100-500 ml/minute), (1 gallon = 3.785 ml)	TUBING MATERIAL CODE: LDPE	

FIELD DECONTAMINATION: Y (N)

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

Filtration Equipment Type: _____

DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-08(S)	2	CG	40ml	HCL	N/A	N/A	VOCs 8260B	BP

REMARKS: CONTROLLER SETTINGS - 10 REFILL, 5 DISCHARGE, 55' AIR THROTTLE

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-08D(I)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 2-12-2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4 X 1/4	WELL SCREEN INTERVAL: 43 feet to 53 feet	STATIC DEPTH TO WATER (feet): 28.74	TOTAL DEPTH: 53 feet	PURGE PUMP TYPE OR BAILER: BLADDER
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 48	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 48		PURGING INITIATED AT: 0951	PURGING ENDED AT: 1021	TOTAL VOLUME PURGED (gallons): 1.54

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (~~ppm or~~ ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm ~~or~~ ~~us/cm~~)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L ~~or~~ ~~% saturation~~)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0956	0.26	0.26	200	28.60	6.98	1.40	5.3	0.86	6.81	70	CLEAR / NONE
1001		0.52			7.01	1.43	4.2	0.29	7.01	55	
1006		0.78			"	1.44	3.3	0.00	7.3	48	
1011		1.04			7.02	1.43	2.7	0.00	7.5	43	
1016		1.30			"	"	2.6	"	7.6	41	
1021		1.56			"	"	2.5	"	"	"	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. SECORE	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1026	SAMPLING ENDED AT: 1028
PUMP OR TUBING DEPTH IN WELL (feet): 48	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3.785 ml)	TUBING MATERIAL CODE: LDPE	

FIELD DECONTAMINATION: (Y) N

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

Filtration Equipment Type: _____

DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-08D(I)	2	CG	40ml	HCL	N/A	N/A	VOCs 8260B	BP

REMARKS: CONTROLLER SETTINGS - 10 REFILL, 5 DISCHARGE, 70' AIR THROTTLE

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-07D(I)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 2-12-2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 26.5 feet to 36.5 feet	STATIC DEPTH TO WATER (feet): 18.77	TOTAL DEPTH: 36.5 feet	PURGE PUMP TYPE OR BAILER: PERISTALTIC
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31.5	PURGING INITIATED AT: 1051	PURGING ENDED AT: 1112	TOTAL VOLUME PURGED (gallons): 2.1	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE ~~(gpm or~~ ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm ~~or~~ ~~us/cm~~)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L ~~or~~ ~~% saturation~~)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1057	0.60	0.60	380	18.77	6.95	1.43	9.7	0.47	11.6	110	CLEAR / NONE
1102	0.50	1.10			6.91	1.44	9.0	0.00	11.7	104	
1107	0.50	1.60			"	"	9.5	"	"	"	
1112	0.50	2.10			"	"	9.7	"	"	105	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. SECORE / LATA	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1117	SAMPLING ENDED AT: 1119
PUMP OR TUBING DEPTH IN WELL (feet): 31.5	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3.785 ml)	TUBING MATERIAL CODE: LDPE	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-07D(I)	2	CG	40ml	HCL	N/A	N/A	VOCs 8260B	PP

REMARKS: DEDICATED 1/4" LDPE TUBING.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-01(S)**	PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH — Date: 6/1/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 25.5 feet to 35.5 feet	STATIC DEPTH TO WATER (feet): 28.72	TOTAL DEPTH: 35.5 feet	PURGE PUMP TYPE OR BAILER: BP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31	PURGING INITIATED AT: 1643	PURGING ENDED AT: 1700	TOTAL VOLUME PURGED (gallons): 3.5	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1648	0.25	1.25	250	28.90	7.31	995	383	7.26	13.4	76.7	cloudy / none
1651	0.75	2.0	250	28.90	7.32	987	150	7.42	13.0	77.4	" / "
1654	0.75	2.75	250	28.90	7.32	985	104	7.44	12.8	78.2	" / "
1657	0.75	3.5	250	28.90	7.32	983	79.2	7.42	12.8	79.8	" / "
1700	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spury PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1657	SAMPLING ENDED AT: 1700
PUMP OR TUBING DEPTH IN WELL (feet): 31	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 250 ml/min	TUBING MATERIAL CODE: PE	

FIELD DECONTAMINATION: Y (N)

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

Filtration Equipment Type: _____

DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-01(S)	2	CG	40	HCl	–	–	8260	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-02(S)**	PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH — Date: 6/3/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 23.5 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	18 feet to 28 feet	22.51		PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
25'	25'	1427	1449	5.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1432	1.25	1.25	250	22.66	7.05	835	0	1.81	14.9	212.2	clear / none
1435	0.75	2.0	250	22.67	7.06	855	0	1.56	14.6	167.5	" / "
1438	0.75	2.75	250	22.67	7.06	859	0	1.86	14.5	128.2	" / "
1441	0.75	3.5	250	22.67	7.07	856	0	2.24	14.4	119.2	" / "
1443	0.7	4.25	250	22.67	7.07	870	0	2.10	14.7	120.1	" / "
1446	0.7	5.0	250	22.67	7.07	872	0	2.19	14.3	110.9	" / "
1449	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61**; **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brad Spry PEC		1446	1449

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (100-500 ml/minute), (1 gallon = 3.785 ml)	TUBING MATERIAL CODE:
25'	250 ml/min	PE

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: (Y) N

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-02(S)	2	CG	40	HCl	—	—	8260	PE,S
Dup-4	2	CG	40	HCl	—	—	8260	

REMARKS:

Dup-4

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-02D(I)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/3/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 33 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	23 feet to 33 feet	22.95		PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
29'	29'	1453	1510	

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1458	1.0	1.0	200	22.95	7.16	944	0.07	3.25	14.2	154.8	clr/sm
1501	0.6	1.6	200	22.96	7.15	941	0	3.29	14.1	152.0	" / "
1504	0.6	2.2	200	22.96	7.16	943	0	3.19	14.2	154.5	" / "
1507	0.6	2.8	200	22.97	7.16	942	0.17	3.40	14.2	140.7	" / "
1510	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brad Spurr PEC		1507	1510

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3.785 ml)	TUBING MATERIAL CODE:
29	200	PE

FIELD DECONTAMINATION: Y (N)

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

Filtration Equipment Type: _____

DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-02D(I)	2	CG	40	HCl	—	—	8260	PES

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-03(S)**	PROJECT NO: P2347	
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/3/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 17.5 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	7.5 feet to 17.5 feet	7.42		

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (~~gallons~~ L):
12.5	12.5	0910	0927	2.8

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0915	1.0	1.0	200	8.90	6.74	600	0.02	0.18	11.6	389.4	clear/none
0918	0.6	1.6	200	9.07	6.75	600	0.42	0.18	11.6	394.1	" / "
0921	0.6	2.2	200	9.30	6.75	599	0.02	0.20	11.6	399.5	" / "
0924	0.6	2.8	200	9.55	6.73	594	0.02	0.32	11.6	406.7	" / "
0927	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brad Spivey PEC		0924	0927

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE:
12.5	200 ml/min	PE

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-03(S)	2	GG	40mL	HCl	—	—	8260	PE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-04DR(S)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/3/20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL: 13 feet to 23 feet | STATIC DEPTH TO WATER (feet): 18.17 | TOTAL DEPTH: 23 feet | PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20' ~~18'~~ | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20' | PURGING INITIATED AT: 1027 | PURGING ENDED AT: 1044 | TOTAL VOLUME PURGED (~~gallons~~ L):

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1032	1.0	1.0	200	18.20	7.01	726	12.3	5.29	12.0	371.2	Clear / none
1035	0.6	1.6	200	18.20	7.01	729	2.77	5.39	12.2	381.2	" / "
1038	0.6	2.2	200	18.20	7.02	727	1.99	5.30	12.2	386.9	" / "
1041	0.6	2.8	200	18.20	7.02	724	1.85	5.34	12.2	394.9	" / "
1044	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spurgy PEC | SAMPLER(S) SIGNATURES: [signature] | SAMPLING INITIATED AT: 1041 | SAMPLING ENDED AT: 1044

PUMP OR TUBING DEPTH IN WELL (feet): 20' | SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 200 | TUBING MATERIAL CODE: PE

FIELD DECONTAMINATION: Y (N) | FIELD FILTERED: Y (N) | FILTER SIZE: _____micron | Filtration Equipment Type: _____ | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-04DR(S)	2	CG	40	HCl	—	—	8260	PE,S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-04D2(I)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/3/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 35 feet to 45 feet	STATIC DEPTH TO WATER (feet): 19.80	TOTAL DEPTH: 45 feet	PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40'	PURGING INITIATED AT: 1047	PURGING ENDED AT: 1131	TOTAL VOLUME PURGED (gallons): 12.6 L

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1052	1.5	1.5	300	19.82	7.27	318.4	5.35	3.92	12.8	403.7	clear / none
1055	0.9	2.4	300	19.82	7.28	318.5	1.44	3.96	12.8	415.2	" / "
1058	0.9	3.3	300	19.82	7.27	323.5	4.33	3.96	12.9	422.7	" / "
1101	0.9	4.2	300	19.82	7.28	331.5	1.54	4.00	13.1	429.4	" / "
1104	0.9	5.1	300	19.82	7.26	333.9	3.42	3.97	13.0	430.7	" / "
1107	0.9	6.0	300	19.82	7.26	412.9	1.32	4.13	13.1	440.5	" / "
1110	0.9	6.9	300	19.82	7.26	450.1	0	4.20	13.0	442.6	" / "
1113	0.9	7.8	300	19.82	7.24	490.5	0	4.30	13.1	445.3	" / "
1123	3.0	10.8	300	19.82	7.24	622	0	4.50	13.3	452.7	" / "
1126	0.9	11.7	300	19.82	7.24	627	0.98	4.32	13.6	453.1	" / "
1129	0.9	12.6	300	19.22	7.24	630	2.04	4.35	13.5	457.2	" / "
1131	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61**; **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spurr PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1129	SAMPLING ENDED AT: 1131
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 300	TUBING MATERIAL CODE: PE	

FIELD DECONTAMINATION: Y (N) | FIELD FILTERED: Y (N) | FILTER SIZE: _____micron | Filtration Equipment Type: _____ | DUPLICATE: (Y) N

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-04D2(I)	2	CG	40	HCl	—	—	8260	PE, S
Dup-2	2	CG	40	HCl	—	—	8260	"

REMARKS: Dup-2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-05(S)**	PROJECT NO: P2347	
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/3/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 18 feet to 28 feet	STATIC DEPTH TO WATER (feet): 20.06	TOTAL DEPTH: 28 feet	PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 23'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 23'	PURGING INITIATED AT: 0841	PURGING ENDED AT: 0858	TOTAL VOLUME PURGED (~~gallons~~ L): 2.8

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0846	1.0	1.0	200	20.12	7.17	834	7.92	7.74	13.8	347.3	clear / none
0849	0.6	1.6	200	20.12	7.18	827	6.24	7.72	13.6	357.0	" / "
0852	0.6	2.2	200	20.13	7.15	827	4.37	7.68	13.7	359.8	" / "
0855	0.6	2.8	200	20.13	7.15	831	4.59	7.75	13.6	364.4	" / "
0858	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spivey PEL	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0855	SAMPLING ENDED AT: 0858
PUMP OR TUBING DEPTH IN WELL (feet): 23'	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3.785 ml) 200 ml/min	TUBING MATERIAL CODE: PE 1/5	

FIELD DECONTAMINATION: Y (N) FIELD FILTERED: Y (N) FILTER SIZE: _____micron
Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-05(S)	2	CG	40	HCl	—	—	8260	PE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-06(I)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 34.59	TOTAL DEPTH: 48 feet	PURGE PUMP TYPE OR BAILER: BP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43		PURGING INITIATED AT: 1408	PURGING ENDED AT: 1422	TOTAL VOLUME PURGED (gallons): 0.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or uS/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1413	0.25	0.25	0.05	34.60	7.17	939	5.83	2.06	15.0	116	clear/none
1416	0.15	0.40	0.05	34.61	7.17	910	4.23	2.10	15.1	116	
1419	0.15	0.55	0.05	34.63	7.17	927	0.58	2.12	14.4	115	
1422	0.15	0.70	0.05	34.63	7.17	930	0.00	1.97	14.6	114	
1423	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spurry PEL	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1423	SAMPLING ENDED AT: 1424
PUMP OR TUBING DEPTH IN WELL (feet): 43	SAMPLE PUMP FLOW RATE: ~200 (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE: PE; S	
FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) Filtration Equipment Type: _____	FILTER SIZE: _____micron	DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-06(I)	2	CG	40	HCl	—	—	8260	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-06D(D)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH:	PURGE PUMP TYPE OR BAILER:
2	1/4	54.5 feet to 64.5 feet	34.80	64.5 feet	BP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
60	60	1442	1500	0.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1447	0.25	0.25	0.05	34.78	7.21	974	51	1.54	17.1	130	clear/none
1452	0.25	0.5	0.05	34.80	7.19	968	67	1.01	16.7	110	
1457	0.25	0.75	0.05	34.80	7.19	969	61	0.89	16.7	91	
1500	0.15	0.90	0.05	34.80	7.19	961	64	0.88	16.4	85	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brad Spivey PEC		1501	1502

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE:
60		LDPE + silicone

FIELD DECONTAMINATION: Y (N) | FIELD FILTERED: Y (N) | FILTER SIZE: _____micron | Filtration Equipment Type: _____ | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-06D(D)	2	CG	40ml	HCl	None	—	8260	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-07(S)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/2/25

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL: 15 feet to 25 feet	STATIC DEPTH TO WATER (feet): 16.73	TOTAL DEPTH: 25 feet	PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 943	PURGING ENDED AT: 955	TOTAL VOLUME PURGED (gallons): 0.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or µs/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
946	0.15	0.15	0.05	16.74	6.95	890	0.32	0.34	14.2	301	clear/none
949	0.15	0.30	0.05	16.75	6.97	893	1.10	0.32	14.4	308	
952	0.15	0.45	0.05	16.75	6.95	892	1.02	0.41	14.4	310	
955	0.15	0.60	0.05	16.75	6.97	892	0.02	0.29	14.4	311	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ken Callahan/PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 956	SAMPLING ENDED AT: 957
PUMP OR TUBING DEPTH IN WELL (feet): 20	SAMPLE PUMP FLOW RATE: ~200 (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE: LDPE + Silicone	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-07(S)	2	CG	40ml	HCl	none	—	8260	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-07D(I)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 26.5 feet to 36.5 feet	STATIC DEPTH TO WATER (feet): 16.62	TOTAL DEPTH: 36.5 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32'		PURGING INITIATED AT: 0946	PURGING ENDED AT: 1003	TOTAL VOLUME PURGED (gallons): 2.8 L

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0951	1.0	1.0	200	16.63	7.05	936	0	0.30	14.8	140.9	clear / none
0954	0.6	1.6	200	16.63	7.04	937	0	0.21	14.7	139.2	" / "
0957	0.6	2.2	200	16.63	7.05	941	0	0.19	14.8	137.4	" / "
1000	0.6	2.8	200	16.63	7.05	941	0	0.19	14.9	135.8	" / "
SAMPLE 1003											

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spurgy PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1000	SAMPLING ENDED AT: 1003
PUMP OR TUBING DEPTH IN WELL (feet): 32'	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 200	TUBING MATERIAL CODE: PE, S	

FIELD DECONTAMINATION: Y (N)

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

Filtration Equipment Type: _____

DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-07D(I)	2	CG	40	HCl	–	–	8260 B	PE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: ~~MW-08(S)~~ ~~MW-08D (T)~~ MW-08(S)		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 29 feet to 39 feet	STATIC DEPTH TO WATER (feet): 26.76 ~~26.57~~	TOTAL DEPTH: 39 feet	PURGE PUMP TYPE OR BAILER: BP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34	PURGING INITIATED AT: 1122 ~~1045~~	PURGING ENDED AT: 1141	TOTAL VOLUME PURGED (gallons): 5.1 ~~3.8~~	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
~~1050~~											
~~1157~~											
1127	1.5	1.5	300	26.77	7.09	788	0	2.36	13.3	82.7	clear / none
1130	0.9	2.4	300	26.77	7.10	762	0	3.03	13.1	82.2	" / "
1133	0.9	3.3	300	26.77	7.10	741	0	3.67	13.0	83.7	" / "
1136	0.9	4.2	300	26.77	7.09	739	0	3.86	12.9	87.3	" / "
1139	0.9	5.1	300	26.78	7.09	742	0	3.86	13.0	89.3	" / "
1141	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spurny PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1139	SAMPLING ENDED AT: 1141
PUMP OR TUBING DEPTH IN WELL (feet): 34'	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3.785 ml) 300 mL/min	TUBING MATERIAL CODE: PE, S	
FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) Filtration Equipment Type: _____	FILTER SIZE: _____micron	DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-08(S)	2	CG	40	HCl	—	—	8260 B	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-08D(I)**	PROJECT NO: P2347	
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 53 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	43 feet to 53 feet	26.52		BP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (~~gallons~~ L):
48	48	1045	1103	4.2

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1050	1.5	1.5	300	26.53	7.16	924	18.24	0.61	13.0	54.7	clear / none
1053	0.9	2.4	300	26.53	7.16	929	14.15	0.46	12.9	39.2	" / "
1056	0.9	3.3	300	26.53	7.16	932	7.03	0.41	12.9	26.7	" / "
1059	0.9	4.2	300	26.53	7.16	933	4.66	0.30	12.9	19.8	" / "
1103	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1055	SAMPLING ENDED AT: 1103
Brad Spurx PEC			
PUMP OR TUBING DEPTH IN WELL (feet): 48	SAMPLE PUMP FLOW RATE: (100-500 ml/minute); ~~(1 gallon = 3,785 ml)~~ 300 ml/min	TUBING MATERIAL CODE: PE, S	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-08D(I)	2	CG	40	HCl	—	—	8260B	PE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-16(S)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): | TUBING DIAMETER (inches): | WELL SCREEN INTERVAL: 20 feet to 30 feet | STATIC DEPTH TO WATER (feet): 15.41 | TOTAL DEPTH: 30 feet | PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25 | PURGING INITIATED AT: 1321 | PURGING ENDED AT: 1348 | TOTAL VOLUME PURGED (gallons): 1.35

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or ~~us/cm~~)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1327	0.3	0.3	0.05	15.40	7.04	822	53	1.75	12.6	342	clear/none
1330	0.15	0.45	0.05	15.40	7.06	820	57	1.77	12.6	371	
1333	0.15	0.60	0.05	15.40	7.06	821	57	1.80	12.7	384	
1336	0.15	0.75	0.05	15.40	7.06	821	47	1.77	12.6	408	
1339	0.15	0.90	0.05	15.40	7.06	821	44	1.73	12.7	423	
1342	0.15	1.05	0.05	15.40	7.07	820	36	1.74	12.7	438	
1345	0.15	1.20	0.05	15.40	7.08	821	36	1.69	12.6	449	
1348	0.15	1.35	0.05	15.40	7.08	819	32	1.67	12.6	452	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ken Carlstrom / PEC | SAMPLER(S) SIGNATURES: [signature] | SAMPLING INITIATED AT: 1349 | SAMPLING ENDED AT: 1350

PUMP OR TUBING DEPTH IN WELL (feet): 25 | SAMPLE PUMP FLOW RATE: ~200 (100-500 ml/minute), (1 gallon = 3,785 ml) | TUBING MATERIAL CODE: LDPE & silicone

FIELD FILTERED: Y (N) | FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) | Filtration Equipment Type: _____ | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-16(S)	2	CG	40ml	HCL	none	NA	8260	PP

REMARKS: grass mowing activity near well during purge/sample

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-17(I)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 15.30	TOTAL DEPTH: 48 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43'		PURGING INITIATED AT: 1333	PURGING ENDED AT: 1356	TOTAL VOLUME PURGED (~~gallons~~ L): 4.0

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1338	1.0	1.0	200	15.30	7.17	835	2.45	1.25	13.8	186.8	clear / none
1341	0.6	1.6	200	15.30	7.16	831	2.72	0.70	13.7	183.5	" / "
1344	0.6	2.2	200	15.30	7.17	837	8.32	0.72	13.8	180.8	" / "
1347	0.6	2.8	200	15.30	7.18	858	7.16	0.44	14.1	175.5	" / "
1350	0.6	3.4	200	15.30	7.19	860	6.95	0.37	13.8	164.3	" / "
1353	0.6	4.0	200	15.30	7.19	866	9.57	0.32	13.9	152.0	" / "
1356	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spurry PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1353	SAMPLING ENDED AT: 1356
PUMP OR TUBING DEPTH IN WELL (feet): 43'	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 200 ml/min	TUBING MATERIAL CODE: PE, S	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-17(I)	2	CG	40	HCl	—	—	8260	PE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **GSSMW-02(S)**	PROJECT NO: P2347	
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 17.2 feet to 27.7 feet	STATIC DEPTH TO WATER (feet): 7.33	TOTAL DEPTH: 27.7 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5	PURGING INITIATED AT: 0758	PURGING ENDED AT: 0815	TOTAL VOLUME PURGED (~~gallons~~ L): 4.2	

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C) 12.6	ORP (mV)	COLOR/ ODOR (describe)
0803	1.5	1.5	300	9.33	7.23	574	9.58	0.52	238.9	238.8	clear / none
0806	0.9	2.4	300	9.33	7.23	575	2.60	0.39	12.5	237.1	clear / none
0809	0.9	3.3	300	9.33	7.22	579	4.37	0.36	12.5	235.8	" / "
0812	0.9	4.2	300	9.33	7.22	583	13.54	0.35	12.5	234.1	" / "
0815	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spaney PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0812	SAMPLING ENDED AT: 0815
PUMP OR TUBING DEPTH IN WELL (feet): 22.5	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3.785 ml)	TUBING MATERIAL CODE: PE, S	

FIELD DECONTAMINATION: Y (N) FIELD FILTERED: Y (N) FILTER SIZE: _____micron

Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-02(S)	2	CG	40mL	HCl	—	—	8260	PE,S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **GSSMW-04(I)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/1/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 23.11	TOTAL DEPTH: 48 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43		PURGING INITIATED AT: 1601	PURGING ENDED AT: 1624	TOTAL VOLUME PURGED (~~gallons~~ L): 6.0

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1606	1.5 3.0	1.5	300	23.10	7.53	836	9.86	5.80	14.4	19.9	Clear / none
1609	0.9	2.4	300	23.11	7.31	861	4.73	2.97	14.2	16.1	" / "
1612	0.9	3.3	300	23.11	7.29	882	2.08	1.49	14.2	10.7	" / "
1615	0.9	4.2	300	23.11	7.26	881	0	0.85	14.2	6.2	" / "
1618	0.9	5.1	300	23.11	7.27	882	0	0.65	14.2	3.9	"
1621	0.9	6.0	300	23.11	7.25	882	0	0.55	14.2	3.0	"
1624	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spary PEL	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1621	SAMPLING ENDED AT: 1624
PUMP OR TUBING DEPTH IN WELL (feet): 43	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3.785 ml) 300 ml/min	TUBING MATERIAL CODE: PE, S	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-04(I)	2	CG	40	HCl	—	—	8260	PE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **GSSMW-05(I)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 68.7 feet to 78.7 feet	STATIC DEPTH TO WATER (feet): 57.77	TOTAL DEPTH: 78.7 feet	PURGE PUMP TYPE OR BAILER: BP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 72'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 72'	PURGING INITIATED AT: 1543	PURGING ENDED AT: 1620	TOTAL VOLUME PURGED (~~gallons~~ L): 7.0

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1548	1.0	1.0	200	57.80	7.07	108.9	190	0.78	15.0	108.3	clear / none
1551	0.6	1.6	200	57.80	7.07	115.3	171	0.61	15.0	100.7	" / "
1554	0.6	2.2	200	57.80	7.06	123.6	160	0.60	14.9	95.6	" / "
1557	0.6	2.8	200	57.80	7.06	145.0	129	0.59	14.7	88.9	" / "
1600	0.6	3.4	200	57.80	7.06	165.0	111	0.57	14.8	85.2	" / "
1603	0.6	4.0	200	57.80	7.06	219.3	112	0.64	14.7	80.6	" / "
1606	0.6	4.6	200	57.80	7.07	224.7	101	0.65	14.6	77.5	" / "
1609	0.6	5.2	200	57.80	7.07	241.3	100	0.57	14.7	75.7	" / "
1612	0.6	5.8	200	57.80	7.11	377.9	75	1.22	14.5	67.7	" / "
1615	0.6	6.4	200	57.80	7.12	380.1	59	1.28	14.6	66.7	" / "
1618	0.6	7.0	200	57.80	7.12	384.3	61	1.30	14.7	65.0	" / "
1620	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spenry PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1618	SAMPLING ENDED AT: 1620

PUMP OR TUBING DEPTH IN WELL (feet): 72'	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 200 ml/min	TUBING MATERIAL CODE: PE, S

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-05(I)	2	CG	40	HCl	—	—	8260	PE,S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **GSSMW-08(I)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL: 28 feet to 38 feet	STATIC DEPTH TO WATER (feet): 15.27	TOTAL DEPTH: 38 feet	PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 858	PURGING ENDED AT: 912	TOTAL VOLUME PURGED (gallons): 0.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
903	0.25	0.25	0.05	15.38	7.10	747	0.02	0.52	12.7	302	clear/none
906	0.15	0.40	0.05	15.38	7.10	749	0.42	0.45	12.8	311	
909	0.15	0.55	0.05	15.38	7.08	747	0.87	0.44	12.7	318	
912	0.15	0.70	0.05	15.39	7.08	749	1.06	0.37	12.7	325	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ken Callahan/PEL	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 913	SAMPLING ENDED AT: 914
PUMP OR TUBING DEPTH IN WELL (feet): 33	SAMPLE PUMP FLOW RATE: ~200 (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE: LDPE+silicone	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-08	(1) 2	CG	40ml	HCl	none	—	8260	PP
MS/MSD-1	"	"	"	"	"	"	"	"

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: GSSMW-09(1)		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL: 27 feet to 37 feet	STATIC DEPTH TO WATER (feet): 15.20	TOTAL DEPTH:	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32'	PURGING INITIATED AT: 8:25	PURGING ENDED AT: 846	TOTAL VOLUME PURGED (gallons): 1.05	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or µs/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
830	0.25	0.25	0.05	15.21	7.43	561	8.24	0.21	13.8	331	clear/none
835	0.25	0.5	0.05	15.21	7.38	632	3.98	0.16	13.9	354	
840	0.25	0.75	0.05	15.21	7.23	670	0.25	0.13	14.0	206	
843	0.15	0.90	0.05	15.21	7.24	672	1.69	0.16	14.1	177	
846	0.15	1.05	0.05	15.21	7.24	672		0.15	14.1	164	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ken Callahan / PEC	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 847	SAMPLING ENDED AT: 848
PUMP OR TUBING DEPTH IN WELL (feet): 32	SAMPLE PUMP FLOW RATE: ~200 (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE: LDPE & silicone	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-09(1)	2	CG	40mL	HCl	–	–	8260	PP, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **GSSMW-10(I)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/12/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 27 feet to 37 feet	STATIC DEPTH TO WATER (feet): 14.90	TOTAL DEPTH: 37 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32'		PURGING INITIATED AT: 0828	PURGING ENDED AT: 0845	TOTAL VOLUME PURGED (gallons): 4.2

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0833	1.5	1.5	300	14.93	7.20	743	1.83	0.44	12.9	149.3	Clear / none
0836	0.9	2.4	300	14.93	7.18	753	0	0.25	12.9	71.0	" / "
0839	0.9	3.3	300	14.93	7.18	754	0	0.23	12.9	45.4	" / "
0842	0.9	4.2	300	14.93	7.18	753	0	0.21	12.9	29.8	" / "
0845	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61**; **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spencer PEL	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0842	SAMPLING ENDED AT: 0845
PUMP OR TUBING DEPTH IN WELL (feet): 32'	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 300 mL/min	TUBING MATERIAL CODE: PE, S	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-10(I)	2	CG	40	HCl	—	—	8260	PE,S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **GSSMW-12(D)**	PROJECT NO: P2347	
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/3/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 97 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	77 feet to 97 feet	21.97		PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (~~gallons~~ L):
87	87	1407	1422	4.2

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1412	1.5	1.5	300	21.95	6.91	766	0	7.18	16.4	459.0	clear / none
1415	0.9	2.4	300	21.97	6.92	760	0	6.76	16.0	472.9	" / "
1418	0.9	3.3	300	21.97	6.91	761	0	7.02	16.2	486.2	" / "
1421	0.9	4.2	300	21.97	6.92	761	0	6.82	16.1	485.9	" / "
SAMPLE 1422											

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brad Spurny PEC	[signature]	1421	1422

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3.785 ml)	TUBING MATERIAL CODE:
87	300 mL/min	PE, S

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-12(D)	2	CG	40	HCl	—	—	8260	PE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: GSSMW-13(D)	PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH
Date: 6/3/20	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 93.5 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	73.5 feet to 93.5 feet	19.00		PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (~~gallons~~ L):
83'	83'	0936	0953	4.2

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0941	1.5	1.5	300	19.00	7.34	779	14.4	1.57	12.9	410.8	Clear / none
0944	0.9	2.4	300	19.00	7.34	780	2.43	1.48	13.0	413.1	" / "
0947	0.9	3.3	300	19.00	7.34	779	1.02	1.45	12.9	414.6	" / "
0850	0.9	4.2	300	19.00	7.34	780	1.06	1.43	12.9	416.0	" / "
0953	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brad Spurny PEC	[signature]	0950	0953

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute); (1 gallon = 3.785 ml)	TUBING MATERIAL CODE:
83'	300 ml/min	PE 1.5

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-13(D)	2	CG	40	HCl	—	—	8260	PE 1.5

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **GSSMW-14(D)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/1/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 94 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	84 feet to 94 feet	5.21		PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
89	89	1443	1502	4.8

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1448	1.5	1.5	300	5.25	7.22	155.5	114	0.44	13.1 ~~155.7~~	110.0	clear / none
1453	1.5	3.0	300	5.25	7.18	152.8	99	0.43	13.0 ~~152.8~~	108.0	"
1456	0.9	3.9	300	5.25	7.17	152.2	100	0.41	13.0	106.3	"
1459	0.9	4.8	300	5.25	7.17	151.6	102	0.42	13.0	105.3	"
1502	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brad Spivey PEC		1459	1502

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE:
81		PE / Silicon

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-14(D)	2	CG	40mL	HCl	~~2mL~~	–	8260	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **GSSMW-15(I)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL: 24 feet to 34 feet | STATIC DEPTH TO WATER (feet): 18.52 | TOTAL DEPTH: 34 feet | PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28 | PURGING INITIATED AT: 1040 | PURGING ENDED AT: 1058 | TOTAL VOLUME PURGED (gallons): 0.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or ds/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1043	0.15	0.15	0.05	18.52	7.07	850	2.76	3.05	14.2	357	clear/none
1046	0.15	0.3	0.05	18.52	7.06	847	2.76	2.93	14.2	384	
1049	0.15	0.45	0.05	18.52	7.06	851	1.04	2.82	14.3	402	
1052	0.15	0.60	0.05	18.52	7.06	851	2.47	2.68	14.2	410	
1055	0.15	0.75	0.05	18.52	7.06	853	1.24	2.60	14.3	415	
1058	0.15	0.90	0.05	18.52	7.05	851	2.68	2.61	14.3	420	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Callahan / PEC | SAMPLER(S) SIGNATURES: [signature] | SAMPLING INITIATED AT: 1059 | SAMPLING ENDED AT: 1100

PUMP OR TUBING DEPTH IN WELL (feet): 28 | SAMPLE PUMP FLOW RATE: 200 (100-500 ml/minute), (1 gallon = 3,785 ml) | TUBING MATERIAL CODE: LDPE + Silicone

FIELD FILTERED: Y N | FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) | Filtration Equipment Type: _____ | DUPLICATE: (Y) N

SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
DUP-1 GSSMW-15(I)	2	CG	40ml	HCL	None	X	8260	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-P1(S)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/3/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 21 feet to 31 feet	STATIC DEPTH TO WATER (feet): 22.54	TOTAL DEPTH: 31 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27'	PURGING INITIATED AT: 1338	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 2.8	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1348/43	1.0	1.0	200	22.54	7.26	904	0	3.61	13.4	384.7	clear / none
1351/46	0.6	1.6	200	22.53	7.27	904	0	3.75	13.3	397.0	" / "
1349	0.6	2.2	200	22.55	7.27	900	0	3.91	13.3	410.5	" / "
1352	0.6	2.8	200	22.55	7.27	901	1.40	3.89	13.3	417.9	" / "
1355	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spurry PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1352	SAMPLING ENDED AT: 1355
PUMP OR TUBING DEPTH IN WELL (feet): 27'	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 200 ml/min	TUBING MATERIAL CODE: PE	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: (Y) N Filtration Equipment Type: _____ DUPLICATE: (Y) N

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-P1(S)	2	CG	40	HCl	X	X	8260	PE,S
Dup-3								

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: GSS-P2(D) | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/2/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL: 41.5 feet to 61.5 feet	STATIC DEPTH TO WATER (feet): 12.07	TOTAL DEPTH: 61.5 feet	PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 51	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 51	PURGING INITIATED AT: 7:48	PURGING ENDED AT: 808	TOTAL VOLUME PURGED (gallons): 1.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or uS/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
753	0.25	0.25	0.05	12.07	6.96	46	5.6	8.00	12.7	207	clear/none
758	0.25	0.5	0.05	12.07	7.09	42	4.6	8.07	12.7	216	
803	0.25	0.75	0.05	12.07	7.13	42	1.52	7.99	12.8	228	
808	0.25	1.0	0.05	12.07	7.16	42	1.46	8.06	12.9	238	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ken Cathcart PEL	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 809	SAMPLING ENDED AT: 810
PUMP OR TUBING DEPTH IN WELL (feet): 51	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE: LDPE + silicone	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSP2(D)	2	CG	40mL	HCl	—	—	8260	DE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: GSS-P3(D) | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/1/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 55 feet to 65 feet	STATIC DEPTH TO WATER (feet): 4.15	TOTAL DEPTH: 65 feet	PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 60	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 60	PURGING INITIATED AT: 1510	PURGING ENDED AT: 1530	TOTAL VOLUME PURGED (gallons): 5.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1515	1.5	1.5	300	4.41	6.99	378	16.5	0.51	12.6	7.0	clear / none
1518	0.9	2.4	300	4.41	6.99	380.1	15.78	0.37	12.8	-32.4	" / "
1521	0.9	3.3	300	4.41	7.00	379.6	12.63	0.35	12.8	-41.7	" / "
1524	0.9	4.2	300	4.41	6.99	380.5	8.70	0.25	12.9	-54.5	" / "
~~1527~~	~~SAMPLE~~										
1527	0.9	5.1	300	4.41	7.00	378.9	7.95	0.19	12.6	-64.4	" / "
1530	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spurgx PEL | SAMPLER(S) SIGNATURES: [signature] | SAMPLING INITIATED AT: 1527 | SAMPLING ENDED AT: 1530

PUMP OR TUBING DEPTH IN WELL (feet): 60 | SAMPLE PUMP FLOW RATE: 300 ml/min (100-500 ml/minute), (1 gallon = 3,785 ml) | TUBING MATERIAL CODE: PE / S

FIELD FILTERED: Y (N) | FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) | Filtration Equipment Type: _____ | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSS-P3	2	CG	40 mL	HCl	—	—	8260	PE, S
MS/MSD-1	2	CG	40 mL	HCl	—	—	8260	PE, S

REMARKS: MS/MSD-1

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **PW-01(D)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 6/1/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 75 feet to 95 feet	STATIC DEPTH TO WATER (feet): 7.28	TOTAL DEPTH: 95 feet	PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
85'	85'	1423	1442	6.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1428	3.0	3.0	300	7.30	9.16	162.2	75.90	0.35	19.1	86.6	clear / none
1433	1.5	4.5	300	7.31	9.14	162.5	74.00	0.30	19.3	86.5	" / "
1436	0.9	5.4	300	7.31	9.16	162.2	78.00	0.27	19.0	86.4	" / "
1439	0.9	6.3	300	7.31	9.16	160.0	77.83	0.25	18.6	86.4	" / "
1442	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1439	SAMPLING ENDED AT: 1442
Brad Spurgeon PEC			

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE:
85	300 ml/min	PE

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
PW-01(D)	2	66	40	HCl	—	—	8260	PE,S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **PW-02(D)**	PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH — Date: 6/1/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 67 feet to 93 feet	STATIC DEPTH TO WATER (feet): 8.48	TOTAL DEPTH: 93 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 80	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 80	PURGING INITIATED AT: 1342	PURGING ENDED AT: 1404	TOTAL VOLUME PURGED (gallons): 5.7	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1352	3.0	3.0	300	–	7.38	760	3.00	0.33	13.1	33.6	clear/none
1355	0.9	3.9	300	–	7.38	764	3.42	0.31	13.2	22.6	
1358	0.9	4.8	300	–	7.37	762	3.18	0.37	13.1	13.5	
1401	0.9	5.7	300	–	7.37	762	3.19	0.31	13.0	9.6	
1404	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spency PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1401	SAMPLING ENDED AT: 1404
PUMP OR TUBING DEPTH IN WELL (feet): 70	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 300 ml/min	TUBING MATERIAL CODE: PE	

FIELD DECONTAMINATION: Y (N) — FIELD FILTERED: Y (N) — FILTER SIZE: _____micron — Filtration Equipment Type: _____ — DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
PW-02(D)	2	CG	40mL	HCl	—	—	8260	PE,S

REMARKS:
No water levels collected. Drop tube too small

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **PW-03A(D)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: GTPO 6/2/20

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL: 46-61 feet AND 71-91 fee	STATIC DEPTH TO WATER (feet): NA	TOTAL DEPTH: 91 feet	PURGE PUMP TYPE OR BAILER: hydrant
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA	TOTAL VOLUME PURGED (gallons): NA	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
929	NA	NA	NA	NA	7.27	753	0.02	0.99	13.2	279	clear/none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spurrx PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: NA	SAMPLING ENDED AT: 0929
PUMP OR TUBING DEPTH IN WELL (feet): NA	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE: NA	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
PW-03A(D)	2	CG	40 mL	HCL	—	—	8260	NA

REMARKS:

Sample collected from hydrant

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **PW-04(D)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 6/11/20

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL: 65 feet to 92 feet	STATIC DEPTH TO WATER (feet): NA	TOTAL DEPTH: 92 feet	PURGE PUMP TYPE OR BAILER: NA
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): TAP	FINAL PUMP OR TUBING DEPTH IN WELL (feet): TAP		PURGING INITIATED AT: NA	PURGING ENDED AT: NA	TOTAL VOLUME PURGED (gallons): NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1300	—	—	—	—	6.89	720	1.64	1.83	13.1	136.4	
1303	SAMPLED										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Spurry PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: NA	SAMPLING ENDED AT: NA
PUMP OR TUBING DEPTH IN WELL (feet): TAP	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) TAP	TUBING MATERIAL CODE: TAP	

FIELD DECONTAMINATION: Y (N) FIELD FILTERED: Y (N) Filtration Equipment Type: _____ FILTER SIZE: _____micron DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
PW-04(D)	2	CG	40mL	HCl	—	—	8260	

REMARKS:

Sampled from tap, PW-4 on

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-04D2(I)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 11/10/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 45 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	35 feet to 45 feet	23.90		PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (~~gallons~~ L):
40'	40'	0842	0917	6.6

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0847	1.0	1.0	200	23.91	7.23	226.7	12.94	5.00	13.1	127.7	clear/none
0850	0.6	1.6	200	23.91	7.23	227.4	10.51	5.03	13.2	127.1	" / "
0853	0.6	2.2	200	23.91	7.22	227.9	9.16	5.00	13.1	126.9	" / "
0856	0.6	2.8	200	23.91	7.22	230.5	9.93	4.93	13.1	126.3	" / "
0859	0.6	3.4	200	23.91	7.13	336.8	7.52	4.29	13.2	127.7	" / "
0904	~~0.6~~ 2.0	5.4	200	23.91	7.14	836	5.25	4.23	13.1	91.7	" / "
0912	0.6	6.0	200	23.91	7.15	846	5.53	4.38	13.1	87.1	" / "
0915	0.6	6.6	200	23.91	7.14	849	4.40	4.37	13.1	83.6	" / "
0917	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
MS / CH PEC		0915	0917

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE:
40'	200 ml/min	PE

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-04D2(I)	3	CG	40 mL	HCl	—	—	8260B	PE, S, PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-04DR(S)**	PROJECT NO: P2347	
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 11/10/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 22.50	TOTAL DEPTH: 23 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18'		PURGING INITIATED AT: 0936	PURGING ENDED AT: 0953	TOTAL VOLUME PURGED (gallons): 2.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0941	0.75	0.75	150	22.55	6.88	751	6.48	2.85	14.1	72.4	
0944	~~0.90~~ 0.45 CH	~~0.90~~ 1.35	150	22.55	6.91	750	6.11	1.97	14.1	71.2	
0947	0.45	1.80	150	22.55	6.91	750	7.58	1.93	14.2	70.9	
0950	0.45	2.25	150	22.55	6.91	750	7.02	1.96	14.2	70.8	
0953	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TBS/LH PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 0953
PUMP OR TUBING DEPTH IN WELL (feet): 23'	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 150 ml/min	TUBING MATERIAL CODE: PE, S	
FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) Filtration Equipment Type: _____	FILTER SIZE: _____micron	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-04DR(S)	2	CG	40mL	HCl	—	—	8260	PE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: GSSMW-09(I) | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 11/10/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 27 feet to 37 feet	STATIC DEPTH TO WATER (feet): 19.99	TOTAL DEPTH: 37 feet	PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32'	PURGING INITIATED AT: 1013	PURGING ENDED AT: 1037	TOTAL VOLUME PURGED (~~gallons~~ L): 4.60

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE (gpm or ~~ml/min~~)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1018	1.00	1.00	200	19.99	10.88	256.9	9.40	2.32	16.2	66.5	
1021	1.60L	0.6	200	19.99	8.70	438.4	8.63	0.70	16.2	87.6	
1024	2.20L	0.6	200	19.99	7.39	595	11.33	0.45	16.2	59.3	
1027	2.80L	0.6	200	19.99	7.24	651	9.64	0.50	16.1	18.7	
1030	3.40	0.6	200	19.99	7.21	661	7.98	0.48	16.1	-1.2	
1033	4.00	0.6	200	19.99	7.20	665	6.99	0.45	16.2	-9.8	
1036	4.60	0.6	200	19.99	7.20	666	7.01	0.38	16.1	-13.8	
1037	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61**; **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TBS / CH PEC | SAMPLER(S) SIGNATURES: [signature] | SAMPLING INITIATED AT: 1036 | SAMPLING ENDED AT: 1037

PUMP OR TUBING DEPTH IN WELL (feet): 32' | SAMPLE PUMP FLOW RATE (100-500 ml/minute), (1 gallon = 3.785 ml) | TUBING MATERIAL CODE: PE,S

FIELD FILTERED: Y (N) | FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) | Filtration Equipment Type: _____ | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-09(I)	2	CG	40 mL	HCl	—	—	8260	PE,S

REMARKS: MS/MSD collected

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.
pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv
If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-17(I)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 11/10/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 19.48	TOTAL DEPTH: 48 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43		PURGING INITIATED AT: 1100	PURGING ENDED AT: 1117	TOTAL VOLUME PURGED (gallons): L

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1105	0.75	0.75	150	19.49	7.17	939	7.04	0.25	15.5	14.8	
1108	0.45	1.20	150	19.48	7.18	939	5.93	0.20	15.3	16.7	
1111	0.45	1.65	150	19.50	7.20	936	7.56	0.20	15.4	18.4	
1114	0.45	2.10	150	19.50	7.21	937	7.02	0.28	15.4	20.4	
1115	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ABS / CH PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1114	SAMPLING ENDED AT: 115
PUMP OR TUBING DEPTH IN WELL (feet): 43'	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE: PE	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-17(I)	2	CG	40mL	HCl	—	—	8260	PE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.
pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv
If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-16(S)**		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 11/10/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 19.62	TOTAL DEPTH: 30 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 1122	PURGING ENDED AT: 1137	TOTAL VOLUME PURGED (gallons): 2.8	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1127	1.0	1.0	200	19.63	7.07	882	13.02	0.09	14.4	28.8	clr / none
1130	0.6	1.6	200	19.63	7.08	883	10.45	0.09	14.3	30.2	" / "
1133	0.6	2.2	200	19.63	7.07	885	8.80	0.10	14.5	30.9	" / "
1136	0.6	2.8	200	19.63	7.08	883	9.05	0.08	14.4	31.2	" / "
1137	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TBS / CH PEL	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1136	SAMPLING ENDED AT: 1137
PUMP OR TUBING DEPTH IN WELL (feet): 25	SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 200	TUBING MATERIAL CODE: PE	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-16(S)	3	CG	40mL	HCl	—	—	VOC 8260	PE, S

REMARKS: DO very low

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.
pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv
If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-08(S)**	PROJECT NO: P2347	
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 11 / 16 / 20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL: 29 feet to 39 feet	STATIC DEPTH TO WATER (feet): 31.15	TOTAL DEPTH: 39 feet	PURGE PUMP TYPE OR BAILER: BP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34	PURGING INITIATED AT: 1324	PURGING ENDED AT: 1340	TOTAL VOLUME PURGED (gallons): 4.2

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1329	1.5	1.5	300	31.16	6.94	792	8.32	3.57	14.1	115.1	Clear/none
1332	0.9	2.4	300	31.18	6.95	796	7.42	3.16	14.0	113.6	" / "
1335	0.9	3.3	300	31.18	6.96	800	8.46	2.82	13.9	111.6	" / "
1338	0.9	4.2	300	31.18	6.96	802	4.58	2.60	13.8	110.5	" / "
1340	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61**; **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TBS / CH PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1338	SAMPLING ENDED AT: 1340
PUMP OR TUBING DEPTH IN WELL (feet): 34	SAMPLE PUMP FLOW RATE: (100-500 ml/minute). (1 gallon = 3,785 ml) 300	TUBING MATERIAL CODE: PE	

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-08(S)	3	CG	40mL	HCl	—	—	VOC 8260	PE, BP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED. ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: GSSMW-15(I) | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 11/10/20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/2 | WELL SCREEN INTERVAL: 24 feet to 34 feet | STATIC DEPTH TO WATER (feet): 22.79 | TOTAL DEPTH: 34 feet | PURGE PUMP TYPE OR BAILER: PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30' | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30' | PURGING INITIATED AT: 1356 | PURGING ENDED AT: 1412 | TOTAL VOLUME PURGED (gallons): ~~L~~ 2.8

TIME	VOLUME PURGED (gallons) ~~L~~	CUMUL. VOLUME PURGED (gallons) ~~L~~	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1401	1.0	1.0	200	22.79	6.99	903	5.63	2.79	14.8	124.8	clear/none
1404	0.6	1.6	200	22.80	6.99	899	7.09	2.56	14.7	122.5	" / "
1407	0.6	2.2	200	22.80	7.00	903	9.26	2.74	14.9	120.7	" / "
1410	0.6	2.8	200	22.80	6.99	903	9.54	2.66	14.8	119.6	" / "
1412	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BS/CH PEC | SAMPLER(S) SIGNATURES: [signature] | SAMPLING INITIATED AT: 1410 | SAMPLING ENDED AT: 1412

PUMP OR TUBING DEPTH IN WELL (feet): 30' | SAMPLE PUMP FLOW RATE (100-500 ml/minute), (1 gallon = 3,785 ml): 200 | TUBING MATERIAL CODE: PE

FIELD FILTERED: Y (N) | FILTER SIZE: _____micron | Filtration Equipment Type: _____

FIELD DECONTAMINATION: Y (N) | DUPLICATE: (Y) ~~N~~

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-15(I)	3	CG	40mL	HCl	—	—	8260	PE.S
Duplicate-1	2	CG	40mL	HCl	—	—	8260	PE.S

REMARKS: Dup-1

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.
pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv
If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: GSSMW-08(I) | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 11/10/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 38 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	28 feet to 38 feet	20.20		PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
33	33	1508	1525	2.8

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1513	1.0	1.0	200	20.20	7.06	705	7.76	0.29	13.4	134.9	clear / none
1516	0.6	1.6	200	20.20	7.05	721	8.02	0.22	13.3	133.1	" / "
1519	0.6	2.2	200	20.20	7.05	723	8.58	0.15	13.3	130.5	" / "
1522	0.6	2.8	200	20.20	7.06	722	7.50	0.30	13.2	124.4	" / "
1525	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
YBS / CH PEC	[signature]	1522	1525

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute) (1 gallon = 3,785 ml)	TUBING MATERIAL CODE:
33	200 mL/min	PE

FIELD DECONTAMINATION: Y (N) | FIELD FILTERED: Y (N) | FILTER SIZE: _____micron | Filtration Equipment Type: _____ | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-08(I)	2	CG	40mL	HCl	—	—	8260B	PE,S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.
pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv
If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-07D(I)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 11/10/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 36.5 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	26.5 feet to 36.5 feet	21.00		PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (~~gallons~~) L
31	31	1540	1558	2.8

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1545	1.00	1.00	200	20.99	6.94	1011	7.50	0.42	15.9	139.9	
1548	0.60	1.60	200	20.99	6.92	1046	8.07	0.33	16.6	136.0	
1551	0.60	2.20	200	21.00	6.94	1056	7.60	0.31	16.2	135.2	
1554	0.60	2.80	200	21.00	6.92	1074	8.34	0.27	16.5	131.5	
1555	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: CH/BS | SAMPLER(S) SIGNATURES: [signature] | SAMPLING INITIATED AT: 1554 | SAMPLING ENDED AT: 1555

PUMP OR TUBING DEPTH IN WELL (feet): 31 | SAMPLE PUMP FLOW RATE: (100-500 ml/minute), (1 gallon = 3,785 ml) 200 ml/min | TUBING MATERIAL CODE: PE

FIELD FILTERED: Y (N) | FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) | Filtration Equipment Type: _____ | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-07D(I)	2	GG	40mL	HCl	—	—	8260	PE.S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS: THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.

pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv

If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: GSSMW-12(D)		PROJECT NO: P2347
SITE NAME: GRANVILLE SOLVENTS	SITE LOCATION: GRANVILLE, OH	Date: 11/11/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL: 77 feet to 97 feet	STATIC DEPTH TO WATER (feet): 26.12	TOTAL DEPTH: 97 feet	PURGE PUMP TYPE OR BAILER: PP
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 87	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 87	PURGING INITIATED AT: 0840	PURGING ENDED AT: 0928	TOTAL VOLUME PURGED (gallons): 6.2	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0845	1.0	1.0	200	26.15	9.22	737	5.83	7.63	13.2	-58.6	clear / none
0848	0.6	1.6	200	26.16	9.30	739	4.21	7.20	13.2	-59.3	" / "
0851	0.6	2.2	200	26.16	9.20	735	5.08	6.43	13.2	-55.1	" / "
0854	0.6	2.8	200	26.16	9.10	736	4.59	6.78	13.3	-51.5	" / "
0857	0.6	3.4	200	26.16	9.02	736	4.41	6.81	13.2	-49.5	" / "
0900	0.6	4.0	200	26.16	8.79	736	3.29	7.44	13.2	-44.9	" / "
* Pause Purge, Check Parameters, 0915 Restart, Real good											
0920	1.0	5.0	200	26.16	6.77	735	3.46	5.48	13.1	-47.7	" / "
0923	0.6	5.6	200	26.16	6.81	735	4.08	5.95	13.2	-46.2	" / "
0926	0.6	6.2	200	26.16	6.79	736	1.81	5.98	13.1	-44.3	" / "
0928	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TBS / CH PEC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0926 SAMPLING ENDED AT: 0928
PUMP OR TUBING DEPTH IN WELL (feet): 87	SAMPLE PUMP FLOW RATE: 200 (100-500 ml/minute), (1 gallon = 3,785 ml)	TUBING MATERIAL CODE: PE
FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) FILTER SIZE: _____micron Filtration Equipment Type: _____	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# of CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
GSSMW-12(D)	3	CG	40mL	HCl	—	—	8260B	PE, S, H

REMARKS:
Do up + down. Air bubbles in line

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.
pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv
If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-02(S)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 11/11/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 23.5 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	18 feet to 28 feet	26.68		PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
28'	28'	0934	0950	L

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm or ml/min)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
0939	1.0	1.0	200	26.85	6.72	859	7.02	2.95	13.3	-30.3	clear / none
0942	0.6	1.6	200	26.85	6.76	872	11.99	2.30	13.2	-37.4	" / "
0945	0.6	2.2	200	26.85	6.76	880	10.28	2.20	13.2	-39.3	" / "
0948	0.6	2.8	200	26.85	6.73	883	9.14	2.19	13.2	-39.1	" / "
0950	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
BS / CH PEL	[signature]	0948	0950

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE: (100-500 ml/minute); (1 gallon = 3.785 ml)	TUBING MATERIAL CODE:
28'	200 ml/min	PE, S

FIELD FILTERED: Y (N) FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) Filtration Equipment Type: _____ DUPLICATE: (Y) N

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-02(S)	2	CG	40mL	HCl	—	—	8260	PE, S
Dupicate-2	2	CG	40mL	HCl	—	—	8260	PE, S

REMARKS:

Dup-2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.
pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv
If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

PROGRESSIVE
ENGINEERING & CONSTRUCTION, INC.

GROUNDWATER SAMPLING LOG

WELL NO: **MW-02D(I)** | PROJECT NO: P2347

SITE NAME: GRANVILLE SOLVENTS | SITE LOCATION: GRANVILLE, OH | Date: 11/11/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL:	STATIC DEPTH TO WATER (feet):	TOTAL DEPTH: 33 feet	PURGE PUMP TYPE OR BAILER:
2	1/4	23 feet to 33 feet	27.11		PP

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (~~gallons~~ L):
28	28	1002	1019	

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (gpm or ~~ml/min~~)	DEPTH TO WATER (feet)	pH (standard units)	COND. (mS/cm or us/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (mg/L or % saturation)	TEMP (°C)	ORP (mV)	COLOR/ ODOR (describe)
1007	1.0	1.0	200	27.11	6.48	855	3.69	2.42	13.1	-21.8	clear / none
1010	0.6	1.6	200	27.11	6.48	852	2.75	2.36	13.1	-21.9	" / "
1013	0.6	2.2	200	27.11	6.47	852	3.34	2.28	13.1	-21.7	" / "
1016	0.6	2.8	200	27.11	6.46	850	4.43	2.12	13.1	-21.4	" / "
1019	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **8"= 2.61;** **10"** =4.08; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **.170"** = 0.0012; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: NBS/CH PEC | SAMPLER(S) SIGNATURES: [signature] | SAMPLING INITIATED AT: 1018 | SAMPLING ENDED AT: 1019

PUMP OR TUBING DEPTH IN WELL (feet): 28 | SAMPLE PUMP FLOW RATE (100-500 ml/minute), (1 gallon = 3.785 ml): 200 mL/min | TUBING MATERIAL CODE: PE

FIELD FILTERED: Y (N) | FILTER SIZE: _____micron

FIELD DECONTAMINATION: Y (N) | Filtration Equipment Type: _____ | DUPLICATE: Y (N)

SAMPLE ID CODE	SAMPLE CONTAINER SPECIFICATION: # of CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVATION: PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-02D(I)	3	CG	40m	HCl	—	--	8260	PP, PE, S

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **LDPE** = Low Density Polyethylene; **HDPE** = High Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES:
1. Readings collected every 3-5 minutes.
2. STABILIZATIONCRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS; THREE PARAMETERS ARE REQUIRED, ONE MUST BE SP. COND.
pH: ± 0.1 units, Temperature: ± 0.5 °C, Specific Conductance: ± 3%, Dissolved Oxygen: +/- 0.3mg/L, Turbidity: ≤10 NTU or +/- 10%, ORP: +/- 10mv
If above can't be attained then: Dissolved Oxygen: ± 0.2 mg/l or ± 10% (whichever is greater), Turbidity: ± 5 NTU or ± 10% (whichever if greater)

APPENDIX B

Water Quality Analytical Laboratory Reports

Southern Research Laboratories, Inc.

WWW.SRLAB.COM

Thank you Brad Sperry for the opportunity to be of service to you and your company, We Sincerely Appreciate Your Business.

SRL certifies these Laboratory Results were produced in accordance with NELAC Standards. Hold times and preservation requirements were met for all analytes unless specifically call noted in the report. Results relate only to the samples as received.

Southern Research Laboratories, Inc
2251 Lynx Lane, Suite 1
Orlando, Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Project:

Granville Solvents, Inc.

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **01/03/20 12:24**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2001005**

Item#	Lab Sample ID	Client Sample ID	Collected Date	Collected Time	Sample Matrix	Analysis Requested
1	2001005-001	Trip Blank-01	01/02/20	9:00	AQUEOUS-Other	EPA 8260
2	2001005-002	MW-08(S)	01/02/20	10:41	AQUEOUS-Groundwater	EPA 8260
3	2001005-003	MW-08D(I)	01/02/20	11:50	AQUEOUS-Groundwater	EPA 8260
4	2001005-004	MW-07D(I)	01/02/20	12:57	AQUEOUS-Groundwater	EPA 8260

Sherri Payne
Vice President / Quality Assurance Officer - SRL

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents, Inc.

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **01/03/20 12:24**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2001005**

********** Analytical Results **********

Client Sample ID: **Trip Blank-01** Date Collected: **01/02/20 09:00** Matrix ID : **AQUEOUS-Other**
Lab Sample ID: **2001005-001** Collected By: **LAB**

EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Analyte Name (Analyte ID)	Results/Qual	Units	DF	MDL	PQL	Method	Analyzed Date	By	Batch	Notes
Benzene (71-43-2)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Bromobenzene (108-86-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Bromoform (75-25-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Bromomethane (74-83-9)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Carbon tetrachloride (56-23-5)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Chlorobenzene (108-90-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Dibromochloromethane (124-48-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Chloroethane (75-00-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Chloroform (67-66-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Chloromethane (74-87-3)	0.5 U	ug/L	1	0.5	2	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
2-Chlorotoluene (95-49-8)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
4-Chlorotoluene (106-43-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
cis-1,2-Dichloroethene (156-59-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
cis-1,3-Dichloropropene (10061-01-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Dibromomethane (74-95-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,2-Dichlorobenzene (95-50-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,3-Dichlorobenzene (541-73-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,4-Dichlorobenzene (106-46-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Bromodichloromethane (75-27-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,1-Dichloroethane (75-34-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,2-Dichloroethane (107-06-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,1-Dichloroethene (75-35-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,2-Dichloropropane (78-87-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,3-Dichloropropane (142-28-9)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
2,2-Dichloropropane (590-20-7)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,1-Dichloropropene (563-58-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Ethylbenzene (100-41-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Methylene chloride (75-09-2)	2 U	ug/L	1	2	5	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Methyl-t-butyl ether (1634-04-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Xylene, m,p- (108-38-3/106-42-3)	1 U	ug/L	1	1	2	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Xylene, o- (95-47-6)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Styrene (Phenylethylene) (100-42-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,1,1,2-Tetrachloroethane (630-20-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,1,2,2-Tetrachloroethane (79-34-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Tetrachloroethene (127-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Toluene (108-88-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
trans-1,2-Dichloroethene (156-60-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
trans-1,3-Dichloropropene (10061-02-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,2,4-Trichlorobenzene (12-082-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,1,1-Trichloroethane (71-55-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,1,2-Trichloroethane (79-00-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Trichloroethene (79-01-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
1,2,3-Trichloropropane (96-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Vinyl chloride (75-01-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 17:44	GGL	01062013MB	-
Xylenes- Total (1330-20-7)	1.5 U	ug/L	1	1.5	3	EPA 8260	01/06/20 17:44	GGL	01062013MB	-

Surrogates	Result	SPK	Units	DF	%Rec	Analyzed Date	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.5	10	ug/L	1	95	01/06/20 17:44	GGL	01062013MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.6	10	ug/L	1	106	01/06/20 17:44	GGL	01062013MB	30-170	
Toluene-d8 (DEP-SURR-038)	10.8	10	ug/L	1	108	01/06/20 17:44	GGL	01062013MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	9.7	10	ug/L	1	97	01/06/20 17:44	GGL	01062013MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents, Inc.

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **01/03/20 12:24**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2001005**

********** Analytical Results **********

Client Sample ID: **MW-08(S)** Date Collected: **01/02/20 10:41** Matrix ID : **AQUEOUS-Groundwater**
Lab Sample ID: **2001005-002** Collected By: **Robert Secore**

EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Analyte Name (Analyte ID)	Results/Qual	Units	DF	MDL	PQL	Method	Analyzed Date	By	Batch	Notes
Benzene (71-43-2)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Bromobenzene (108-86-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Bromoform (75-25-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Bromomethane (74-83-9)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Carbon tetrachloride (56-23-5)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Chlorobenzene (108-90-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Dibromochloromethane (124-48-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Chloroethane (75-00-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Chloroform (67-66-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Chloromethane (74-87-3)	0.5 U	ug/L	1	0.5	2	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
2-Chlorotoluene (95-49-8)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
4-Chlorotoluene (106-43-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
cis-1,2-Dichloroethene (156-59-2)	***46***	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
cis-1,3-Dichloropropene (10061-01-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Dibromomethane (74-95-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,2-Dichlorobenzene (95-50-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,3-Dichlorobenzene (541-73-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,4-Dichlorobenzene (106-46-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Bromodichloromethane (75-27-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,1-Dichloroethane (75-34-3)	***3.4***	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,2-Dichloroethane (107-06-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,1-Dichloroethene (75-35-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,2-Dichloropropane (78-87-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,3-Dichloropropane (142-28-9)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
2,2-Dichloropropane (590-20-7)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,1-Dichloropropene (563-58-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Ethylbenzene (100-41-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Methylene chloride (75-09-2)	2 U	ug/L	1	2	5	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Methyl-t-butyl ether (1634-04-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Xylene, m,p- (108-38-3/106-42-3)	1 U	ug/L	1	1	2	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Xylene, o- (95-47-6)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Styrene (Phenylethylene) (100-42-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,1,1,2-Tetrachloroethane (630-20-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,1,2,2-Tetrachloroethane (79-34-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Tetrachloroethene (127-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Toluene (108-88-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
trans-1,2-Dichloroethene (156-60-5)	***6.5***	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
trans-1,3-Dichloropropene (10061-02-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,2,4-Trichlorobenzene (12-082-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,1,1-Trichloroethane (71-55-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,1,2-Trichloroethane (79-00-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Trichloroethene (79-01-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
1,2,3-Trichloropropane (96-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Vinyl chloride (75-01-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:09	GGL	01062013MB	-
Xylenes- Total (1330-20-7)	1.5 U	ug/L	1	1.5	3	EPA 8260	01/06/20 18:09	GGL	01062013MB	-

Surrogates	Result	SPK	Units	DF	%Rec	Analyzed Date	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.6	10	ug/L	1	96	01/06/20 18:09	GGL	01062013MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.6	10	ug/L	1	106	01/06/20 18:09	GGL	01062013MB	30-170	
Toluene-d8 (DEP-SURR-038)	10.7	10	ug/L	1	107	01/06/20 18:09	GGL	01062013MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	9.9	10	ug/L	1	99	01/06/20 18:09	GGL	01062013MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents, Inc.

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **01/03/20 12:24**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2001005**

********** Analytical Results **********

Client Sample ID: **MW-08D(I)** Date Collected: **01/02/20 11:50** Matrix ID : **AQUEOUS-Groundwater**
Lab Sample ID: **2001005-003** Collected By: **Robert Secore**

EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Analyte Name (Analyte ID)	Results/Qual	Units	DF	MDL	PQL	Method	Analyzed Date	By	Batch	Notes
Benzene (71-43-2)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Bromobenzene (108-86-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Bromoform (75-25-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Bromomethane (74-83-9)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Carbon tetrachloride (56-23-5)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Chlorobenzene (108-90-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Dibromochloromethane (124-48-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Chloroethane (75-00-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Chloroform (67-66-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Chloromethane (74-87-3)	0.5 U	ug/L	1	0.5	2	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
2-Chlorotoluene (95-49-8)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
4-Chlorotoluene (106-43-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
cis-1,2-Dichloroethene (156-59-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
cis-1,3-Dichloropropene (10061-01-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Dibromomethane (74-95-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,2-Dichlorobenzene (95-50-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,3-Dichlorobenzene (541-73-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,4-Dichlorobenzene (106-46-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Bromodichloromethane (75-27-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,1-Dichloroethane (75-34-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,2-Dichloroethane (107-06-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,1-Dichloroethene (75-35-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,2-Dichloropropane (78-87-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,3-Dichloropropane (142-28-9)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
2,2-Dichloropropane (590-20-7)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,1-Dichloropropene (563-58-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Ethylbenzene (100-41-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Methylene chloride (75-09-2)	2 U	ug/L	1	2	5	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Methyl-t-butyl ether (1634-04-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Xylene, m,p- (108-38-3/106-42-3)	1 U	ug/L	1	1	2	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Xylene, o- (95-47-6)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Styrene (Phenylethylene) (100-42-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,1,1,2-Tetrachloroethane (630-20-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,1,2,2-Tetrachloroethane (79-34-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Tetrachloroethene (127-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Toluene (108-88-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
trans-1,2-Dichloroethene (156-60-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
trans-1,3-Dichloropropene (10061-02-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,2,4-Trichlorobenzene (12-082-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,1,1-Trichloroethane (71-55-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,1,2-Trichloroethane (79-00-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Trichloroethene (79-01-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
1,2,3-Trichloropropane (96-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Vinyl chloride (75-01-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:34	GGL	01062013MB	-
Xylenes- Total (1330-20-7)	1.5 U	ug/L	1	1.5	3	EPA 8260	01/06/20 18:34	GGL	01062013MB	-

Surrogates	Result	SPK	Units	DF	%Rec	Analyzed Date	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.5	10	ug/L	1	95	01/06/20 18:34	GGL	01062013MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.6	10	ug/L	1	106	01/06/20 18:34	GGL	01062013MB	30-170	
Toluene-d8 (DEP-SURR-038)	10.7	10	ug/L	1	107	01/06/20 18:34	GGL	01062013MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	9.8	10	ug/L	1	98	01/06/20 18:34	GGL	01062013MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents, Inc.

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **01/03/20 12:24**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2001005**

********** Analytical Results **********

Client Sample ID: **MW-07D(I)** Date Collected: **01/02/20 12:57** Matrix ID : **AQUEOUS-Groundwater**
Lab Sample ID: **2001005-004** Collected By: **Robert Secore**

EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Analyte Name (Analyte ID)	Results/Qual	Units	DF	MDL	PQL	Method	Analyzed Date	By	Batch	Notes
Benzene (71-43-2)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Bromobenzene (108-86-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Bromoform (75-25-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Bromomethane (74-83-9)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Carbon tetrachloride (56-23-5)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Chlorobenzene (108-90-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Dibromochloromethane (124-48-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Chloroethane (75-00-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Chloroform (67-66-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Chloromethane (74-87-3)	0.5 U	ug/L	1	0.5	2	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
2-Chlorotoluene (95-49-8)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
4-Chlorotoluene (106-43-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
cis-1,2-Dichloroethene (156-59-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
cis-1,3-Dichloropropene (10061-01-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Dibromomethane (74-95-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,2-Dichlorobenzene (95-50-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,3-Dichlorobenzene (541-73-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,4-Dichlorobenzene (106-46-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Bromodichloromethane (75-27-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,1-Dichloroethane (75-34-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,2-Dichloroethane (107-06-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,1-Dichloroethene (75-35-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,2-Dichloropropane (78-87-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,3-Dichloropropane (142-28-9)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
2,2-Dichloropropane (590-20-7)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,1-Dichloropropene (563-58-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Ethylbenzene (100-41-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Methylene chloride (75-09-2)	2 U	ug/L	1	2	5	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Methyl-t-butyl ether (1634-04-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Xylene, m,p- (108-38-3/106-42-3)	1 U	ug/L	1	1	2	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Xylene, o- (95-47-6)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Styrene (Phenylethylene) (100-42-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,1,1,2-Tetrachloroethane (630-20-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,1,2,2-Tetrachloroethane (79-34-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Tetrachloroethene (127-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Toluene (108-88-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
trans-1,2-Dichloroethene (156-60-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
trans-1,3-Dichloropropene (10061-02-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,2,4-Trichlorobenzene (12-082-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,1,1-Trichloroethane (71-55-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,1,2-Trichloroethane (79-00-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Trichloroethene (79-01-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
1,2,3-Trichloropropane (96-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Vinyl chloride (75-01-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	01/06/20 18:59	GGL	01062013MB	-
Xylenes- Total (1330-20-7)	1.5 U	ug/L	1	1.5	3	EPA 8260	01/06/20 18:59	GGL	01062013MB	-

Surrogates	Result	SPK	Units	DF	%Rec	Analyzed Date	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.5	10	ug/L	1	95	01/06/20 18:59	GGL	01062013MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.6	10	ug/L	1	106	01/06/20 18:59	GGL	01062013MB	30-170	
Toluene-d8 (DEP-SURR-038)	10.7	10	ug/L	1	107	01/06/20 18:59	GGL	01062013MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	9.7	10	ug/L	1	97	01/06/20 18:59	GGL	01062013MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Project:
Granville Solvents, Inc.

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **01/03/20 12:24**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2001005**

********** Detection Summary : **********

Client Sample ID: **MW-08(S)** Date Collected: **01/02/20 10:41** Matrix ID : **AQUEOUS-Groundwater**
Lab Sample ID: **2001005-002** Collected By: **Robert Secore**

Analyte Name (Analyte ID)	Results/Qualifier	Units	DF	MDL	PQL	Date Analyzed	By	Batch ID	Method
cis-1,2-Dichloroethene (156-59-2)	**46**	ug/L	1	0.2	1	01/06/20 18:09	GGL	01062013MB	EPA 8260
1,1-Dichloroethane (75-34-3)	**3.4**	ug/L	1	0.2	1	01/06/20 18:09	GGL	01062013MB	EPA 8260
trans-1,2-Dichloroethene (156-60-	**6.5**	ug/L	1	0.2	1	01/06/20 18:09	GGL	01062013MB	EPA 8260

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents, Inc.

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **01/03/20 12:24**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2001005**

********** Quality Control : **********

Method Blank(MB) EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Client Sample ID: **Method Blank**
Lab Sample ID: **2001005-005**

Date Collected: **01/06/20 13:08**
Date Prepared: **01/06/20 13:08**
Date Analyzed: **01/06/20 13:08**

Matrix ID : **AQUEOUS-Other**

EPA 8260

Analyte Name (Analyte ID)	Results/Qual	Units	DF	MDL	PQL	By	Batch	Notes
Benzene (71-43-2)	0.5 U	ug/L	1	0.5	1	GGL	01062013MB	-
Bromobenzene (108-86-1)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Bromoform (75-25-2)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Bromomethane (74-83-9)	0.5 U	ug/L	1	0.5	1	GGL	01062013MB	-
Carbon tetrachloride (56-23-5)	0.5 U	ug/L	1	0.5	1	GGL	01062013MB	-
Chlorobenzene (108-90-7)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Dibromochloromethane (124-48-1)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Chloroethane (75-00-3)	0.5 U	ug/L	1	0.5	1	GGL	01062013MB	-
Chloroform (67-66-3)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Chloromethane (74-87-3)	0.5 U	ug/L	1	0.5	2	GGL	01062013MB	-
2-Chlorotoluene (95-49-8)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
4-Chlorotoluene (106-43-4)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
cis-1,2-Dichloroethene (156-59-2)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
cis-1,3-Dichloropropene (10061-01-5)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Dibromomethane (74-95-3)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,2-Dichlorobenzene (95-50-1)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,3-Dichlorobenzene (541-73-1)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,4-Dichlorobenzene (106-46-7)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Bromodichloromethane (75-27-4)	0.5 U	ug/L	1	0.5	1	GGL	01062013MB	-
1,1-Dichloroethane (75-34-3)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,2-Dichloroethane (107-06-2)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,1-Dichloroethene (75-35-4)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,2-Dichloropropane (78-87-5)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,3-Dichloropropane (142-28-9)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
2,2-Dichloropropane (590-20-7)	0.5 U	ug/L	1	0.5	1	GGL	01062013MB	-
1,1-Dichloropropene (563-58-6)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Ethylbenzene (100-41-4)	0.5 U	ug/L	1	0.5	1	GGL	01062013MB	-
Methylene chloride (75-09-2)	2 U	ug/L	1	2	5	GGL	01062013MB	-
Methyl-t-butyl ether (1634-04-4)	0.5 U	ug/L	1	0.5	1	GGL	01062013MB	-
Xylene, m,p- (108-38-3/106-42-3)	1 U	ug/L	1	1	2	GGL	01062013MB	-
Xylene, o- (95-47-6)	0.5 U	ug/L	1	0.5	1	GGL	01062013MB	-
Styrene (Phenylethylene) (100-42-5)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,1,1,2-Tetrachloroethane (630-20-6)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,1,2,2-Tetrachloroethane (79-34-5)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Tetrachloroethene (127-18-4)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Toluene (108-88-3)	0.5 U	ug/L	1	0.5	1	GGL	01062013MB	-
trans-1,2-Dichloroethene (156-60-5)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
trans-1,3-Dichloropropene (10061-02-6)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,2,4-Trichlorobenzene (12-082-1)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,1,1-Trichloroethane (71-55-6)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,1,2-Trichloroethane (79-00-5)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Trichloroethene (79-01-6)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
1,2,3-Trichloropropane (96-18-4)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Vinyl chloride (75-01-4)	0.2 U	ug/L	1	0.2	1	GGL	01062013MB	-
Xylenes- Total (1330-20-7)	1.5 U	ug/L	1	1.5	3	GGL	01062013MB	-

Surrogates	Result	SPK	Units	DF	%Rec	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.5	10	ug/L	1	95	GGL	01062013MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.2	10	ug/L	1	102	GGL	01062013MB	30-170	
Toluene-d8 (DEP-SURR-038)	10.1	10	ug/L	1	101	GGL	01062013MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	10	10	ug/L	1	100	GGL	01062013MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents, Inc.

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **01/03/20 12:24**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2001005**

********** Quality Control : **********

Laboratory Control Standard(LCS) — EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Client Sample ID: **LCS**
Lab Sample ID: **2001005-006**
Date Collected: **01/06/20 13:08**
Date Prepared: **01/06/20 13:08**
Date Analyzed: **01/06/20 13:58**
Matrix ID : **AQUEOUS-Other**

EPA 8260

Analyte Name (Analyte ID)	Result	SPK	Units	DF	MDL	PQL	%Rec	By	Batch	%Limits	Notes
Benzene (71-43-2)	22.4	25	ug/L	1	0.5	1	89.6	GGL	01062013MB	30-170	
Chlorobenzene (108-90-7)	24.9	25	ug/L	1	0.2	1	99.6	GGL	01062013MB	30-170	
Chloroform (67-66-3)	22.4	25	ug/L	1	0.2	1	89.6	GGL	01062013MB	30-170	
1,1-Dichloroethene (75-35-4)	22.3	25	ug/L	1	0.2	1	89.2	GGL	01062013MB	30-170	
1,2-Dichloropropane (78-87-5)	24.4	25	ug/L	1	0.2	1	97.6	GGL	01062013MB	30-170	
Ethylbenzene (100-41-4)	25.1	25	ug/L	1	0.5	1	100	GGL	01062013MB	30-170	
Xylene, o- (95-47-6)	26.4	25	ug/L	1	0.5	1	106	GGL	01062013MB	30-170	
Tetrachloroethene (127-18-4)	25.4	25	ug/L	1	0.2	1	102	GGL	01062013MB	30-170	
Toluene (108-88-3)	24.6	25	ug/L	1	0.5	1	98.4	GGL	01062013MB	30-170	
trans-1,2-Dichloroethene (156-60-5)	20.9	25	ug/L	1	0.2	1	83.6	GGL	01062013MB	30-170	
Trichloroethene (79-01-6)	22.8	25	ug/L	1	0.2	1	91.2	GGL	01062013MB	30-170	

Surrogates	Result	SPK	Units	DF	%Rec	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.5	10	ug/L	1	95	GGL	01062013MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	9.9	10	ug/L	1	99	GGL	01062013MB	30-170	
Toluene-d8 (DEP-SURR-038)	10.5	10	ug/L	1	105	GGL	01062013MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	9.7	10	ug/L	1	97	GGL	01062013MB	30-170	

Matrix Spike(MS) — EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Client Sample ID: **MW-08(S) MS**
Lab Sample ID: **2001005-007**
Date Collected: **01/02/20 10:41**
Date Prepared: **01/06/20 13:08**
Date Analyzed: **01/06/20 21:55**
Matrix ID : **AQUEOUS-Groundwater**

EPA 8260

Analyte Name (Analyte ID)	Result	SPK	Units	DF	MDL	PQL	%Rec	Source	By	Batch	%Limits	Notes
Benzene (71-43-2)	21.9	25	ug/L	1	0.5	1	87.6	0.5 U	GGL	01062013MB	30-170	
Chlorobenzene (108-90-7)	27	25	ug/L	1	0.2	1	108	0.2 U	GGL	01062013MB	30-170	
Chloroform (67-66-3)	21.8	25	ug/L	1	0.2	1	87.2	0.2 U	GGL	01062013MB	30-170	
1,1-Dichloroethene (75-35-4)	18.5	25	ug/L	1	0.2	1	74	0.2 U	GGL	01062013MB	30-170	
1,2-Dichloropropane (78-87-5)	26.5	25	ug/L	1	0.2	1	106	0.2 U	GGL	01062013MB	30-170	
Ethylbenzene (100-41-4)	27.6	25	ug/L	1	0.5	1	110	0.5 U	GGL	01062013MB	30-170	
Xylene, o- (95-47-6)	27.9	25	ug/L	1	0.5	1	112	0.5 U	GGL	01062013MB	30-170	
Tetrachloroethene (127-18-4)	26.9	25	ug/L	1	0.2	1	108	0.2 U	GGL	01062013MB	30-170	
Toluene (108-88-3)	27.1	25	ug/L	1	0.5	1	108	0.5 U	GGL	01062013MB	30-170	
trans-1,2-Dichloroethene (156-60-5)	18.1	25	ug/L	1	0.2	1	46.4	6.5	GGL	01062013MB	30-170	
Trichloroethene (79-01-6)	21.7	25	ug/L	1	0.2	1	86.8	0.2 U	GGL	01062013MB	30-170	

Surrogates	Result	SPK	Units	DF	%Rec	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.5	10	ug/L	1	95	GGL	01062013MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.2	10	ug/L	1	102	GGL	01062013MB	30-170	
Toluene-d8 (DEP-SURR-038)	11.2	10	ug/L	1	112	GGL	01062013MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	9.7	10	ug/L	1	97	GGL	01062013MB	30-170	

Matrix Spike Dup(MSD) — EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Client Sample ID: **MW-08(S) MSD**
Lab Sample ID: **2001005-008**
Date Collected: **01/02/20 10:41**
Date Prepared: **01/06/20 13:08**
Date Analyzed: **01/06/20 22:20**
Matrix ID : **AQUEOUS-Groundwater**

EPA 8260

Analyte Name (Analyte ID)	Result	SPK	Units	DF	MDL	PQL	%RPD	%Rec	Source	By	Batch	%Limits	Notes
Benzene (71-43-2)	21.3	25	ug/L	1	0.5	1	2.8	85.2	0.5 U	GGL	01062013MB	30-170	
Chlorobenzene (108-90-7)	26.2	25	ug/L	1	0.2	1	2.9	105	0.2 U	GGL	01062013MB	30-170	
Chloroform (67-66-3)	21.2	25	ug/L	1	0.2	1	2.8	84.8	0.2 U	GGL	01062013MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents, Inc.

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **01/03/20 12:24**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2001005**

********** Quality Control : **********

Matrix Spike Dup(MSD) EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Client Sample ID: **MW-08(S) MSD**
Lab Sample ID: **2001005-008**

Date Collected: **01/02/20 10:41**
Date Prepared: **01/06/20 13:08**
Date Analyzed: **01/06/20 22:20**

Matrix ID : **AQUEOUS-Groundwater**

Analyte Name (Analyte ID)	Result	SPK	Units	DF	MDL	PQL	%RPD	%Rec	Source	By	Batch	%Limits	Notes
1,1-Dichloroethene (75-35-4)	17.9	25	ug/L	1	0.2	1	3.3	71.6	0.2 U	GGL	01062013MB	30-170	
1,2-Dichloropropane (78-87-5)	26	25	ug/L	1	0.2	1	1.9	104	0.2 U	GGL	01062013MB	30-170	
Ethylbenzene (100-41-4)	27	25	ug/L	1	0.5	1	2.2	108	0.5 U	GGL	01062013MB	30-170	
Xylene, o- (95-47-6)	27.3	25	ug/L	1	0.5	1	2.2	109	0.5 U	GGL	01062013MB	30-170	
Tetrachloroethene (127-18-4)	26.4	25	ug/L	1	0.2	1	1.9	106	0.2 U	GGL	01062013MB	30-170	
Toluene (108-88-3)	26.5	25	ug/L	1	0.5	1	2.2	106	0.5 U	GGL	01062013MB	30-170	
trans-1,2-Dichloroethene (156-60-5)	20.9	25	ug/L	1	0.2	1	14.4	57.6	6.5	GGL	01062013MB	30-170	
Trichloroethene (79-01-6)	21.3	25	ug/L	1	0.2	1	1.9	85.2	0.2 U	GGL	01062013MB	30-170	

Surrogates	Result	SPK	Units	DF	%Rec	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.6	10	ug/L	1	96	GGL	01062013MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.2	10	ug/L	1	102	GGL	01062013MB	30-170	
Toluene-d8 (DEP-SURR-038)	11.4	10	ug/L	1	114	GGL	01062013MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	9.9	10	ug/L	1	99	GGL	01062013MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents, Inc.

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **01/03/20 12:24**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2001005**

**********Data Qualifiers Codes**********

Reporting Exceptions and Qualified Data

When quality control results are outside established control limits reanalysis, including re-extraction (if applicable), is preferred. If re-analysis is not viable or desirable, then results may be qualified. Sample results associated with quality control data that exceed acceptance criteria will be qualified with an appropriate comment. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for.

Lab Qualifier	Description
B-01	The sample dilutions set-up for the analysis did not meet the oxygen depletion criteria of at least 2 mg/l dissolved oxygen depletion. Therefore the reported result is an estimated value only.
B-04	The average DO uptake of the seeded controls does not meet the method required 0.6 - 1.0 mg/L.
B-06	Sample is supersaturated with DO. Initial DO exceeds the method required maximum initial DO of 9 mg/L.
B-07	LCS exceeded control limits. The test can not be repeated due to method constraints. Considered to be an estimated value.
D	Data reported from a dilution and or multiple dilutions. D2= 1/2, D5= 1/5, D10= 1/10, D20= 1/20, D50= 1/50, D100= 1/100
I, J	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J-06	The associated laboratory control sample exhibited low bias; the reported result should be considered to be a minimum estimate.
L	Off-scale high. Actual value is known to be greater than value given.
LP-02	Less than 1000 ml of sample filtered and residue range of 2.5 insufficient sample, analysis cannot be repeated.
M	Presence of material is verified but not quantified; the actual value is less than the value given. The estimated concentration is greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
PS	PS = Parent Sample. The PS sample was used as the parent sample for the analysis batch to make a Matrix Spike (MS), Matrix Spike Duplicated (MSD) and / or Laboratory Duplicate (DUP).
Q	Sample held beyond the accepted holding time. Use this code if result derived from a sample prepared or analyzed after the approved holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result. There is minimal impact to the data.
QB-02	The method blank contains analyte at a concentration above the MDL and/or greater than one-half the MRL. The analyte was not detected in the sample.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, there is no impact.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte present in the sample.
QM-07	Spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-12	Precision between duplicate samples was outside acceptance limits.
QM-S	Surrogate recovery exceeded acceptance criteria due to the presence of a coeluting compound.
QR-04	Duplicate precision outside acceptance limits due to low analyte concentration.
QS-03	Surrogate recovery outside acceptance limits
QS-4	Surrogate recovery not calculated. Surrogate diluted out of the calibrtion range.
QS-6	Surrogate recovery exceeded accepance criteria due to coelution. Matrix effect confirmed.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, there is no impact.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates the compound was analyzed for but not detected above the method detection limt.
V	Indicates the analyte was detected in both the sample and method blank.
V1	Common Laboratory Contaminant
Y	The laboratory analysis was performed on an improperly preserved sample. The result may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
Z-1	Sample was received without an associated Field or Trip Blank for Low Level Mercury Analysis associated Field or Trip Blank for Low Level Mercury

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Chain of Custody

2001005

Page 1 of 1

Project Manager:	Brad Sperry
Company:	Progressive Engineering And Construction
Address:	12402 N. 56th Street
City, State, Zip:	Tampa, Florida 33614
Phone:	813 930 0669
Fax:	+1 (813) 930-9809

Southern Research Laboratories, Inc.
2251 Lynx Lane, Suite #1
Orlando, Florida 32804
Main (407) 522-7100 Fax: (407) 522-7043

Project Name: Granville Solvents Site

Project Location: GRANVILLE, OH

Sampled by [Print Name(s)] / Affiliation: ROBERT SECORE/LATA

Sampler(s) Signature(s): Robert Secore

Preservatives (see codes): H

Project Number: P2347

Analyses Requested: 8260B

REQUESTED DUE DATE:

Facility ID#:

Petroleum Restoration Program ___ yes ___ no

	Sample Identification	Sampled Date:	Sampled Time:	Grab or Composite	Matrix: (see codes)	Total Number of Containers	8260B	
1	TB-01	1-2-2020	0900	G	W	2	X	2001005-001
2	MW-08(S)		1041		GW			-002
3	MW-08D(1)		1150					-003
4	MW-07D(1)		1257					-004

Robert Secore 1-2-2020

Shipment Method:		Relinquished by	Date:	Time:	Accepted by:	Date:	Time:
Out: 1/2/2020	Via: FEDEX	Helen Turner	12-19-19	11:05	Robert Secore	12-30-19	1100
Returned: / /	Via:	Robert Secore	1-2-2020	1500	Helen Turner (Via Fed Exp)	1-3-20	12:24

Additional Comments: AIRBILL # 8127 8446 9722

Cooler No.(s) / Temperature(s) (°C): X433 3.0

Sampling Kit No.: 8520

Equipment ID No.:

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water(Blanks) HW = Potential Haz Waste O = Other(Specify:_____)

Preservative Codes: H = Hydrochloric Acid & Ice I = Ice Only N = Nitrie Acid& Ice S = Sulfuric Acid & Ice X = Sodium Hydroxide & Ice O = Other(Specify)

Southern Research Laboratories, Inc.

WWW.SRLAB.COM

Thank you Brad Sperry for the opportunity to be of service to you and your company, We Sincerely Appreciate Your Business.

SRL certifies these Laboratory Results were produced in accordance with NELAC Standards. Hold times and preservation requirements were met for all analytes unless specifically call noted in the report. Results relate only to the samples as received.

Southern Research Laboratories, Inc
2251 Lynx Lane, Suite 1
Orlando, Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Project:

Granville Solvents Site

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **02/14/20 10:45**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2002019**

Item#	Lab Sample ID	Client Sample ID	Collected Date	Collected Time	Sample Matrix	Analysis Requested
1	2002019-001	Trip Blank-01	02/12/20	8:00	AQUEOUS-Other	EPA 8260
2	2002019-002	MW-08(S)	02/12/20	9:23	AQUEOUS-Groundwater	EPA 8260
3	2002019-003	MW-08D(I)	02/12/20	10:26	AQUEOUS-Groundwater	EPA 8260
4	2002019-004	MW-07D(I)	02/12/20	11:17	AQUEOUS-Groundwater	EPA 8260

Sherri Payne
Vice President / Quality Assurance Officer - SRL

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents Site

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **02/14/20 10:45**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2002019**

********** Analytical Results **********

Client Sample ID: **Trip Blank-01** Date Collected: **02/12/20 08:00** Matrix ID : **AQUEOUS-Other**
Lab Sample ID: **2002019-001** Collected By: **LAB**

EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Analyte Name (Analyte ID)	Results/Qual	Units	DF	MDL	PQL	Method	Analyzed Date	By	Batch	Notes
Benzene (71-43-2)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Bromobenzene (108-86-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Bromoform (75-25-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Bromomethane (74-83-9)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Carbon tetrachloride (56-23-5)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Chlorobenzene (108-90-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Dibromochloromethane (124-48-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Chloroethane (75-00-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Chloroform (67-66-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Chloromethane (74-87-3)	0.5 U	ug/L	1	0.5	2	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
2-Chlorotoluene (95-49-8)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
4-Chlorotoluene (106-43-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
cis-1,2-Dichloroethene (156-59-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
cis-1,3-Dichloropropene (10061-01-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Dibromomethane (74-95-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,2-Dichlorobenzene (95-50-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,3-Dichlorobenzene (541-73-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,4-Dichlorobenzene (106-46-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Bromodichloromethane (75-27-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,1-Dichloroethane (75-34-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,2-Dichloroethane (107-06-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,1-Dichloroethene (75-35-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,2-Dichloropropane (78-87-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,3-Dichloropropane (142-28-9)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
2,2-Dichloropropane (590-20-7)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,1-Dichloropropene (563-58-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Ethylbenzene (100-41-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Methylene chloride (75-09-2)	2 U	ug/L	1	2	5	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Methyl-t-butyl ether (1634-04-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Xylene, m,p- (108-38-3/106-42-3)	1 U	ug/L	1	1	2	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Xylene, o- (95-47-6)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Styrene (Phenylethylene) (100-42-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,1,1,2-Tetrachloroethane (630-20-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,1,2,2-Tetrachloroethane (79-34-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Tetrachloroethene (127-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Toluene (108-88-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
trans-1,2-Dichloroethene (156-60-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
trans-1,3-Dichloropropene (10061-02-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,2,4-Trichlorobenzene (12-082-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,1,1-Trichloroethane (71-55-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,1,2-Trichloroethane (79-00-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Trichloroethene (79-01-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
1,2,3-Trichloropropane (96-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Vinyl chloride (75-01-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 15:42	GGL	02192012MB	-
Xylenes- Total (1330-20-7)	1.5 U	ug/L	1	1.5	3	EPA 8260	02/19/20 15:42	GGL	02192012MB	-

Surrogates	Result	SPK	Units	DF	%Rec	Analyzed Date	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.9	10	ug/L	1	99	02/19/20 15:42	GGL	02192012MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.2	10	ug/L	1	102	02/19/20 15:42	GGL	02192012MB	30-170	
Toluene-d8 (DEP-SURR-038)	9.8	10	ug/L	1	98	02/19/20 15:42	GGL	02192012MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	10.1	10	ug/L	1	101	02/19/20 15:42	GGL	02192012MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents Site

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **02/14/20 10:45**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2002019**

********** Analytical Results **********

Client Sample ID: **MW-08(S)** Date Collected: **02/12/20 09:23** Matrix ID : **AQUEOUS-Groundwater**
Lab Sample ID: **2002019-002** Collected By: **Robert Secore**

EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Analyte Name (Analyte ID)	Results/Qual	Units	DF	MDL	PQL	Method	Analyzed Date	By	Batch	Notes
Benzene (71-43-2)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Bromobenzene (108-86-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Bromoform (75-25-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Bromomethane (74-83-9)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Carbon tetrachloride (56-23-5)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Chlorobenzene (108-90-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Dibromochloromethane (124-48-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Chloroethane (75-00-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Chloroform (67-66-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Chloromethane (74-87-3)	0.5 U	ug/L	1	0.5	2	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
2-Chlorotoluene (95-49-8)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
4-Chlorotoluene (106-43-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
cis-1,2-Dichloroethene (156-59-2)	***37***	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
cis-1,3-Dichloropropene (10061-01-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Dibromomethane (74-95-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,2-Dichlorobenzene (95-50-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,3-Dichlorobenzene (541-73-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,4-Dichlorobenzene (106-46-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Bromodichloromethane (75-27-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,1-Dichloroethane (75-34-3)	***2.9***	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,2-Dichloroethane (107-06-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,1-Dichloroethene (75-35-4)	***0.26 J***	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,2-Dichloropropane (78-87-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,3-Dichloropropane (142-28-9)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
2,2-Dichloropropane (590-20-7)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,1-Dichloropropene (563-58-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Ethylbenzene (100-41-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Methylene chloride (75-09-2)	2 U	ug/L	1	2	5	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Methyl-t-butyl ether (1634-04-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Xylene, m,p- (108-38-3/106-42-3)	1 U	ug/L	1	1	2	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Xylene, o- (95-47-6)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Styrene (Phenylethylene) (100-42-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,1,1,2-Tetrachloroethane (630-20-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,1,2,2-Tetrachloroethane (79-34-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Tetrachloroethene (127-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Toluene (108-88-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
trans-1,2-Dichloroethene (156-60-5)	***5.7***	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
trans-1,3-Dichloropropene (10061-02-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,2,4-Trichlorobenzene (12-082-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,1,1-Trichloroethane (71-55-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,1,2-Trichloroethane (79-00-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Trichloroethene (79-01-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
1,2,3-Trichloropropane (96-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Vinyl chloride (75-01-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:07	GGL	02192012MB	-
Xylenes- Total (1330-20-7)	1.5 U	ug/L	1	1.5	3	EPA 8260	02/19/20 16:07	GGL	02192012MB	-

Surrogates	Result	SPK	Units	DF	%Rec	Analyzed Date	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.8	10	ug/L	1	98	02/19/20 16:07	GGL	02192012MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.3	10	ug/L	1	103	02/19/20 16:07	GGL	02192012MB	30-170	
Toluene-d8 (DEP-SURR-038)	9.4	10	ug/L	1	94	02/19/20 16:07	GGL	02192012MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	10.3	10	ug/L	1	103	02/19/20 16:07	GGL	02192012MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents Site

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **02/14/20 10:45**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2002019**

********** Analytical Results **********

Client Sample ID: **MW-08D(I)** Date Collected: **02/12/20 10:26** Matrix ID : **AQUEOUS-Groundwater**
Lab Sample ID: **2002019-003** Collected By: **Robert Secore**

EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Analyte Name (Analyte ID)	Results/Qual	Units	DF	MDL	PQL	Method	Analyzed Date	By	Batch	Notes
Benzene (71-43-2)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Bromobenzene (108-86-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Bromoform (75-25-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Bromomethane (74-83-9)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Carbon tetrachloride (56-23-5)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Chlorobenzene (108-90-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Dibromochloromethane (124-48-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Chloroethane (75-00-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Chloroform (67-66-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Chloromethane (74-87-3)	0.5 U	ug/L	1	0.5	2	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
2-Chlorotoluene (95-49-8)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
4-Chlorotoluene (106-43-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
cis-1,2-Dichloroethene (156-59-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
cis-1,3-Dichloropropene (10061-01-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Dibromomethane (74-95-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,2-Dichlorobenzene (95-50-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,3-Dichlorobenzene (541-73-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,4-Dichlorobenzene (106-46-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Bromodichloromethane (75-27-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,1-Dichloroethane (75-34-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,2-Dichloroethane (107-06-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,1-Dichloroethene (75-35-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,2-Dichloropropane (78-87-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,3-Dichloropropane (142-28-9)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
2,2-Dichloropropane (590-20-7)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,1-Dichloropropene (563-58-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Ethylbenzene (100-41-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Methylene chloride (75-09-2)	2 U	ug/L	1	2	5	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Methyl-t-butyl ether (1634-04-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Xylene, m,p- (108-38-3/106-42-3)	1 U	ug/L	1	1	2	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Xylene, o- (95-47-6)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Styrene (Phenylethylene) (100-42-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,1,1,2-Tetrachloroethane (630-20-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,1,2,2-Tetrachloroethane (79-34-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Tetrachloroethene (127-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Toluene (108-88-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
trans-1,2-Dichloroethene (156-60-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
trans-1,3-Dichloropropene (10061-02-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,2,4-Trichlorobenzene (12-082-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,1,1-Trichloroethane (71-55-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,1,2-Trichloroethane (79-00-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Trichloroethene (79-01-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
1,2,3-Trichloropropane (96-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Vinyl chloride (75-01-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:31	GGL	02192012MB	-
Xylenes- Total (1330-20-7)	1.5 U	ug/L	1	1.5	3	EPA 8260	02/19/20 16:31	GGL	02192012MB	-

Surrogates	Result	SPK	Units	DF	%Rec	Analyzed Date	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.9	10	ug/L	1	99	02/19/20 16:31	GGL	02192012MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.4	10	ug/L	1	104	02/19/20 16:31	GGL	02192012MB	30-170	
Toluene-d8 (DEP-SURR-038)	9.6	10	ug/L	1	96	02/19/20 16:31	GGL	02192012MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	10.3	10	ug/L	1	103	02/19/20 16:31	GGL	02192012MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents Site

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **02/14/20 10:45**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2002019**

********** Analytical Results **********

Client Sample ID: **MW-07D(I)** Date Collected: **02/12/20 11:17** Matrix ID : **AQUEOUS-Groundwater**
Lab Sample ID: **2002019-004** Collected By: **Robert Secore**

EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Analyte Name (Analyte ID)	Results/Qual	Units	DF	MDL	PQL	Method	Analyzed Date	By	Batch	Notes
Benzene (71-43-2)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Bromobenzene (108-86-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Bromoform (75-25-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Bromomethane (74-83-9)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Carbon tetrachloride (56-23-5)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Chlorobenzene (108-90-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Dibromochloromethane (124-48-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Chloroethane (75-00-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Chloroform (67-66-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Chloromethane (74-87-3)	0.5 U	ug/L	1	0.5	2	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
2-Chlorotoluene (95-49-8)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
4-Chlorotoluene (106-43-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
cis-1,2-Dichloroethene (156-59-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
cis-1,3-Dichloropropene (10061-01-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Dibromomethane (74-95-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,2-Dichlorobenzene (95-50-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,3-Dichlorobenzene (541-73-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,4-Dichlorobenzene (106-46-7)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Bromodichloromethane (75-27-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,1-Dichloroethane (75-34-3)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,2-Dichloroethane (107-06-2)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,1-Dichloroethene (75-35-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,2-Dichloropropane (78-87-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,3-Dichloropropane (142-28-9)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
2,2-Dichloropropane (590-20-7)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,1-Dichloropropene (563-58-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Ethylbenzene (100-41-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Methylene chloride (75-09-2)	2 U	ug/L	1	2	5	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Methyl-t-butyl ether (1634-04-4)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Xylene, m,p- (108-38-3/106-42-3)	1 U	ug/L	1	1	2	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Xylene, o- (95-47-6)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Styrene (Phenylethylene) (100-42-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,1,1,2-Tetrachloroethane (630-20-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,1,2,2-Tetrachloroethane (79-34-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Tetrachloroethene (127-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Toluene (108-88-3)	0.5 U	ug/L	1	0.5	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
trans-1,2-Dichloroethene (156-60-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
trans-1,3-Dichloropropene (10061-02-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,2,4-Trichlorobenzene (12-082-1)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,1,1-Trichloroethane (71-55-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,1,2-Trichloroethane (79-00-5)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Trichloroethene (79-01-6)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
1,2,3-Trichloropropane (96-18-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Vinyl chloride (75-01-4)	0.2 U	ug/L	1	0.2	1	EPA 8260	02/19/20 16:56	GGL	02192012MB	-
Xylenes- Total (1330-20-7)	1.5 U	ug/L	1	1.5	3	EPA 8260	02/19/20 16:56	GGL	02192012MB	-

Surrogates	Result	SPK	Units	DF	%Rec	Analyzed Date	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.7	10	ug/L	1	97	02/19/20 16:56	GGL	02192012MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.3	10	ug/L	1	103	02/19/20 16:56	GGL	02192012MB	30-170	
Toluene-d8 (DEP-SURR-038)	9.5	10	ug/L	1	95	02/19/20 16:56	GGL	02192012MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	10.2	10	ug/L	1	102	02/19/20 16:56	GGL	02192012MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Project:
Granville Solvents Site

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **02/14/20 10:45**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2002019**

********** Detection Summary : **********

Client Sample ID: **MW-08(S)** Date Collected: **02/12/20 09:23** Matrix ID : **AQUEOUS-Groundwater**
Lab Sample ID: **2002019-002** Collected By: **Robert Secore**

Analyte Name (Analyte ID)	Results/Qualifier	Units	DF	MDL	PQL	Date Analyzed	By	Batch ID	Method
cis-1,2-Dichloroethene (156-59-2)	**37**	ug/L	1	0.2	1	02/19/20 16:07	GGL	02192012MB	EPA 8260
1,1-Dichloroethane (75-34-3)	**2.9**	ug/L	1	0.2	1	02/19/20 16:07	GGL	02192012MB	EPA 8260
1,1-Dichloroethene (75-35-4)	**0.26 J**	ug/L	1	0.2	1	02/19/20 16:07	GGL	02192012MB	EPA 8260
trans-1,2-Dichloroethene (156-60-5)	**5.7**	ug/L	1	0.2	1	02/19/20 16:07	GGL	02192012MB	EPA 8260

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents Site

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **02/14/20 10:45**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2002019**

********** Quality Control : **********

Method Blank(MB) EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Client Sample ID: **Method Blank-1**
Lab Sample ID: **2002019-005**
Date Collected: **02/19/20 12:21**
Date Prepared: **02/19/20 12:21**
Date Analyzed: **02/19/20 12:21**
Matrix ID : **AQUEOUS-Other**

EPA 8260

Analyte Name (Analyte ID)	Results/Qual	Units	DF	MDL	PQL	By	Batch	Notes
Benzene (71-43-2)	0.5 U	ug/L	1	0.5	1	GGL	02192012MB	-
Bromobenzene (108-86-1)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Bromoform (75-25-2)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Bromomethane (74-83-9)	0.5 U	ug/L	1	0.5	1	GGL	02192012MB	-
Carbon tetrachloride (56-23-5)	0.5 U	ug/L	1	0.5	1	GGL	02192012MB	-
Chlorobenzene (108-90-7)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Dibromochloromethane (124-48-1)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Chloroethane (75-00-3)	0.5 U	ug/L	1	0.5	1	GGL	02192012MB	-
Chloroform (67-66-3)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Chloromethane (74-87-3)	0.5 U	ug/L	1	0.5	2	GGL	02192012MB	-
2-Chlorotoluene (95-49-8)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
4-Chlorotoluene (106-43-4)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
cis-1,2-Dichloroethene (156-59-2)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
cis-1,3-Dichloropropene (10061-01-5)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Dibromomethane (74-95-3)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,2-Dichlorobenzene (95-50-1)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,3-Dichlorobenzene (541-73-1)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,4-Dichlorobenzene (106-46-7)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Bromodichloromethane (75-27-4)	0.5 U	ug/L	1	0.5	1	GGL	02192012MB	-
1,1-Dichloroethane (75-34-3)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,2-Dichloroethane (107-06-2)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,1-Dichloroethene (75-35-4)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,2-Dichloropropane (78-87-5)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,3-Dichloropropane (142-28-9)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
2,2-Dichloropropane (590-20-7)	0.5 U	ug/L	1	0.5	1	GGL	02192012MB	-
1,1-Dichloropropene (563-58-6)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Ethylbenzene (100-41-4)	0.5 U	ug/L	1	0.5	1	GGL	02192012MB	-
Methylene chloride (75-09-2)	2 U	ug/L	1	2	5	GGL	02192012MB	-
Methyl-t-butyl ether (1634-04-4)	0.5 U	ug/L	1	0.5	1	GGL	02192012MB	-
Xylene, m,p- (108-38-3/106-42-3)	1 U	ug/L	1	1	2	GGL	02192012MB	-
Xylene, o- (95-47-6)	0.5 U	ug/L	1	0.5	1	GGL	02192012MB	-
Styrene (Phenylethylene) (100-42-5)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,1,1,2-Tetrachloroethane (630-20-6)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,1,2,2-Tetrachloroethane (79-34-5)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Tetrachloroethene (127-18-4)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Toluene (108-88-3)	0.5 U	ug/L	1	0.5	1	GGL	02192012MB	-
trans-1,2-Dichloroethene (156-60-5)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
trans-1,3-Dichloropropene (10061-02-6)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,2,4-Trichlorobenzene (12-082-1)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,1,1-Trichloroethane (71-55-6)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,1,2-Trichloroethane (79-00-5)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Trichloroethene (79-01-6)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
1,2,3-Trichloropropane (96-18-4)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Vinyl chloride (75-01-4)	0.2 U	ug/L	1	0.2	1	GGL	02192012MB	-
Xylenes- Total (1330-20-7)	1.5 U	ug/L	1	1.5	3	GGL	02192012MB	-

Surrogates	Result	SPK	Units	DF	%Rec	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	10.1	10	ug/L	1	101	GGL	02192012MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.6	10	ug/L	1	106	GGL	02192012MB	30-170	
Toluene-d8 (DEP-SURR-038)	9.7	10	ug/L	1	97	GGL	02192012MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	10.1	10	ug/L	1	101	GGL	02192012MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents Site

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **02/14/20 10:45**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2002019**

********** Quality Control : **********

Laboratory Control Standard(LCS) — EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Client Sample ID: **LCS-1**
Lab Sample ID: **2002019-006**
Date Collected: **02/19/20 12:21**
Date Prepared: **02/19/20 12:21**
Date Analyzed: **02/19/20 13:11**
Matrix ID : **AQUEOUS-Other**

EPA 8260

Analyte Name (Analyte ID)	Result	SPK	Units	DF	MDL	PQL	%Rec	By	Batch	%Limits	Notes
Benzene (71-43-2)	24.1	25	ug/L	1	0.5	1	96.4	GGL	02192012MB	30-170	
Chlorobenzene (108-90-7)	24.2	25	ug/L	1	0.2	1	96.8	GGL	02192012MB	30-170	
Chloroform (67-66-3)	24.7	25	ug/L	1	0.2	1	98.8	GGL	02192012MB	30-170	
1,1-Dichloroethene (75-35-4)	24.2	25	ug/L	1	0.2	1	96.8	GGL	02192012MB	30-170	
1,2-Dichloropropane (78-87-5)	24.4	25	ug/L	1	0.2	1	97.6	GGL	02192012MB	30-170	
Ethylbenzene (100-41-4)	24.2	25	ug/L	1	0.5	1	96.8	GGL	02192012MB	30-170	
Xylene, o- (95-47-6)	24.5	25	ug/L	1	0.5	1	98	GGL	02192012MB	30-170	
Tetrachloroethene (127-18-4)	24	25	ug/L	1	0.2	1	96	GGL	02192012MB	30-170	
Toluene (108-88-3)	24.2	25	ug/L	1	0.5	1	96.8	GGL	02192012MB	30-170	
trans-1,2-Dichloroethene (156-60-5)	24.6	25	ug/L	1	0.2	1	98.4	GGL	02192012MB	30-170	
Trichloroethene (79-01-6)	23.5	25	ug/L	1	0.2	1	94	GGL	02192012MB	30-170	

Surrogates	Result	SPK	Units	DF	%Rec	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	10	10	ug/L	1	100	GGL	02192012MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.2	10	ug/L	1	102	GGL	02192012MB	30-170	
Toluene-d8 (DEP-SURR-038)	10.1	10	ug/L	1	101	GGL	02192012MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	9.8	10	ug/L	1	98	GGL	02192012MB	30-170	

Matrix Spike(MS) — EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Client Sample ID: **MW-08D(I) MS-1**
Lab Sample ID: **2002019-007**
Date Collected: **02/12/20 10:26**
Date Prepared: **02/19/20 12:21**
Date Analyzed: **02/19/20 17:21**
Matrix ID : **AQUEOUS-Groundwater**

EPA 8260

Analyte Name (Analyte ID)	Result	SPK	Units	DF	MDL	PQL	%Rec	Source	By	Batch	%Limits	Notes
Benzene (71-43-2)	21.6	25	ug/L	1	0.5	1	86.4	0.5 U	GGL	02192012MB	30-170	
Chlorobenzene (108-90-7)	20.2	25	ug/L	1	0.2	1	80.8	0.2 U	GGL	02192012MB	30-170	
Chloroform (67-66-3)	21.9	25	ug/L	1	0.2	1	87.6	0.2 U	GGL	02192012MB	30-170	
1,1-Dichloroethene (75-35-4)	20.6	25	ug/L	1	0.2	1	82.4	0.2 U	GGL	02192012MB	30-170	
1,2-Dichloropropane (78-87-5)	21	25	ug/L	1	0.2	1	84	0.2 U	GGL	02192012MB	30-170	
Ethylbenzene (100-41-4)	20.6	25	ug/L	1	0.5	1	82.4	0.5 U	GGL	02192012MB	30-170	
Xylene, o- (95-47-6)	19.8	25	ug/L	1	0.5	1	79.2	0.5 U	GGL	02192012MB	30-170	
Tetrachloroethene (127-18-4)	20.3	25	ug/L	1	0.2	1	81.2	0.2 U	GGL	02192012MB	30-170	
Toluene (108-88-3)	20.8	25	ug/L	1	0.5	1	83.2	0.5 U	GGL	02192012MB	30-170	
trans-1,2-Dichloroethene (156-60-5)	21.9	25	ug/L	1	0.2	1	87.6	0.2 U	GGL	02192012MB	30-170	
Trichloroethene (79-01-6)	20.7	25	ug/L	1	0.2	1	82.8	0.2 U	GGL	02192012MB	30-170	

Surrogates	Result	SPK	Units	DF	%Rec	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.9	10	ug/L	1	99	GGL	02192012MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	10.3	10	ug/L	1	103	GGL	02192012MB	30-170	
Toluene-d8 (DEP-SURR-038)	9.8	10	ug/L	1	98	GGL	02192012MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	9.6	10	ug/L	1	96	GGL	02192012MB	30-170	

Matrix Spike Dup(MSD) — EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Client Sample ID: **MW-08D(I) MSD-1**
Lab Sample ID: **2002019-008**
Date Collected: **02/12/20 10:26**
Date Prepared: **02/19/20 12:21**
Date Analyzed: **02/19/20 17:46**
Matrix ID : **AQUEOUS-Groundwater**

EPA 8260

Analyte Name (Analyte ID)	Result	SPK	Units	DF	MDL	PQL	%RPD	%Rec	Source	By	Batch	%Limits	Notes
Benzene (71-43-2)	22.2	25	ug/L	1	0.5	1	2.7	89	0.5 U	GGL	02192012MB	30-170	
Chlorobenzene (108-90-7)	21	25	ug/L	1	0.2	1	3.9	84	0.2 U	GGL	02192012MB	30-170	
Chloroform (67-66-3)	22.3	25	ug/L	1	0.2	1	1.8	89	0.2 U	GGL	02192012MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents Site

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **02/14/20 10:45**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2002019**

********** Quality Control : **********

Matrix Spike Dup(MSD) EPA Method 5030/8260B Volatile Organics in Water by GC-MS

Client Sample ID: **MW-08D(I) MSD-1**
Lab Sample ID: **2002019-008**

Date Collected: **02/12/20 10:26**
Date Prepared: **02/19/20 12:21**
Date Analyzed: **02/19/20 17:46**

Matrix ID : **AQUEOUS-Groundwater**

Analyte Name (Analyte ID)	Result	SPK	Units	DF	MDL	PQL	%RPD	%Rec	Source	By	Batch	%Limits	Notes
1,1-Dichloroethene (75-35-4)	20.3	25	ug/L	1	0.2	1	1.5	81	0.2 U	GGL	02192012MB	30-170	
1,2-Dichloropropane (78-87-5)	21.5	25	ug/L	1	0.2	1	2.4	86	0.2 U	GGL	02192012MB	30-170	
Ethylbenzene (100-41-4)	21.2	25	ug/L	1	0.5	1	2.9	85	0.5 U	GGL	02192012MB	30-170	
Xylene, o- (95-47-6)	20.3	25	ug/L	1	0.5	1	2.5	81	0.5 U	GGL	02192012MB	30-170	
Tetrachloroethene (127-18-4)	20.8	25	ug/L	1	0.2	1	2.4	83	0.2 U	GGL	02192012MB	30-170	
Toluene (108-88-3)	21.4	25	ug/L	1	0.5	1	2.8	86	0.5 U	GGL	02192012MB	30-170	
trans-1,2-Dichloroethene (156-60-5)	22.3	25	ug/L	1	0.2	1	1.8	89	0.2 U	GGL	02192012MB	30-170	
Trichloroethene (79-01-6)	21.1	25	ug/L	1	0.2	1	1.9	84	0.2 U	GGL	02192012MB	30-170	

Surrogates	Result	SPK	Units	DF	%Rec	By	Batch	%Limits	Notes
Dibromofluoromethane (DEP-SURR-047)	9.9	10	ug/L	1	99	GGL	02192012MB	30-170	
1,2-Dichloroethane-d4 (DEP-SURR-002)	9.9	10	ug/L	1	99	GGL	02192012MB	30-170	
Toluene-d8 (DEP-SURR-038)	9.9	10	ug/L	1	99	GGL	02192012MB	70-130	
4-Bromofluorobenzene (DEP-SURR-019)	9.8	10	ug/L	1	98	GGL	02192012MB	30-170	

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Southern Research Laboratories, Inc
2251 Lynx Lane Suite 1
Orlando Florida 32804
(407) 522-7100 / Fax (407) 522-7043

ANALYTICAL REPORT

For Proiect:
Granville Solvents Site

NELAP Certified
FDOH # : **E83484**
Lab Received Date : **02/14/20 10:45**

Company Name: **Progressive Engineering and Construction**
Client's Name: **Brad Sperry**
Client's Address: **12402 N. 56th Street**
City: **Tampa**
State: **FL** Zip **33617**

Facility ID: **NA**
Project Location: **Granville, Ohio**
Client's Phone: **813- 930-0669**
Client's Project Number: **P2347**
Lab Reporting Batch ID: **2002019**

**********Data Qualifiers Codes**********

Reporting Exceptions and Qualified Data

When quality control results are outside established control limits reanalysis, including re-extraction (if applicable), is preferred. If re-analysis is not viable or desirable, then results may be qualified. Sample results associated with quality control data that exceed acceptance criteria will be qualified with an appropriate comment. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for.

Lab Qualifier	Description
B-01	The sample dilutions set-up for the analysis did not meet the oxygen depletion criteria of at least 2 mg/l dissolved oxygen depletion. Therefore the reported result is an estimated value only.
B-04	The average DO uptake of the seeded controls does not meet the method required 0.6 - 1.0 mg/L.
B-06	Sample is supersaturated with DO. Initial DO exceeds the method required maximum initial DO of 9 mg/L.
B-07	LCS exceeded control limits. The test can not be repeated due to method constraints. Considered to be an estimated value.
D	Data reported from a dilution and or multiple dilutions. D2= 1/2, D5= 1/5, D10= 1/10, D20= 1/20, D50= 1/50, D100= 1/100
I, J	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J-06	The associated laboratory control sample exhibited low bias; the reported result should be considered to be a minimum estimate.
L	Off-scale high. Actual value is known to be greater than value given.
LP-02	Less than 1000 ml of sample filtered and residue range of 2.5 insufficient sample, analysis cannot be repeated.
M	Presence of material is verified but not quantified; the actual value is less than the value given. The estimated concentration is greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
PS	PS = Parent Sample. The PS sample was used as the parent sample for the analysis batch to make a Matrix Spike (MS), Matrix Spike Duplicated (MSD) and / or Laboratory Duplicate (DUP).
Q	Sample held beyond the accepted holding time. Use this code if result derived from a sample prepared or analyzed after the approved holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result. There is minimal impact to the data.
QB-02	The method blank contains analyte at a concentration above the MDL and/or greater than one-half the MRL. The analyte was not detected in the sample.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, there is no impact.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte present in the sample.
QM-07	Spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-12	Precision between duplicate samples was outside acceptance limits.
QM-S	Surrogate recovery exceeded acceptance criteria due to the presence of a coeluting compound.
QR-04	Duplicate precision outside acceptance limits due to low analyte concentration.
QS-03	Surrogate recovery outside acceptance limits
QS-4	Surrogate recovery not calculated. Surrogate diluted out of the calibrtion range.
QS-6	Surrogate recovery exceeded accepance criteria due to coelution. Matrix effect confirmed.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, there is no impact.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates the compound was analyzed for but not detected above the method detection limt.
V	Indicates the analyte was detected in both the sample and method blank.
V1	Common Laboratory Contaminant
Y	The laboratory analysis was performed on an improperly preserved sample. The result may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
Z-1	Sample was received without an associated Field or Trip Blank for Low Level Mercury Analysis associated Field or Trip Blank for Low Level Mercury

This report, which includes the attached Chain-Of-Custody, shall not be reported except in full, without written approval of the laboratory.

Chain of Custody

2002019

Page 1 of 1

Project Manager: Brad Sperry

Company: Progressive Engineering And Construction

Address: 12402 N. 56th Street

City, State, Zip: Tampa, Florida 33614

Phone: 813 930 0669 Fax: +1 (813) 930-9809

Southern Research Laboratories, Inc.
2251 Lynx Lane, Suite #1
Orlando, Florida 32804
Main (407) 522-7100 Fax: (407) 522-7043

Project Name: Granville Solvents Site

Project Location: GRANVILLE, OH

Sampled by [Print Name(s)] / Affiliation: ROBERT SELORE / LATA

Sampler(s) Signature(s): [signature]

Preservatives (see codes): H

Project Number: P2347

REQUESTED DUE DATE:

Facility ID#:

Petroleum Restoration Program ____ yes ____ no

Analyses Requested: VOCs 8260B

	Sample Identification	Sampled Date:	Sampled Time:	Grab or Composite	Matrix: (see codes)	Total Number of Containers	VOCs 8260B	Petroleum Restoration Program
1	TB-01	2-12-2020	0800	G	W	2	X	2002019-001
2	MW-08(S)		0923		GW		X	-002
3	MW-08D(I)		1026				X	-003
4	MW-07D(I)		1117				X	-004

Shipment Method:
Out: 2/12/2020 Via: FEDEX
Returned: / / Via:

Additional Comments: AIRBILL # 8127 8446 9630

Relinquished by	Date:	Time:	Accepted by:	Date:	Time:
Helen Turner	1-30-20	12:15	[signature]	2-11-20	0945
[signature]	2-12-2020	1230	Helen Turner (Via Fed Exp)	2-14-20	10:45

Cooler No.(s) / Temperature(s) (°C): X403 1.6

Sampling Kit No.: 8545

Equipment ID No.:

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water(Blanks) HW = Potential Haz Waste O = Other(Specify:_____)

Preservative Codes: H = Hydrochloric Acid & Ice I = Ice Only N = Nitric Acid& Ice S = Sulfuric Acid & Ice X = Sodium Hydroxide & Ice O = Other(Specify)

APPENDIX C

Updated Contact List

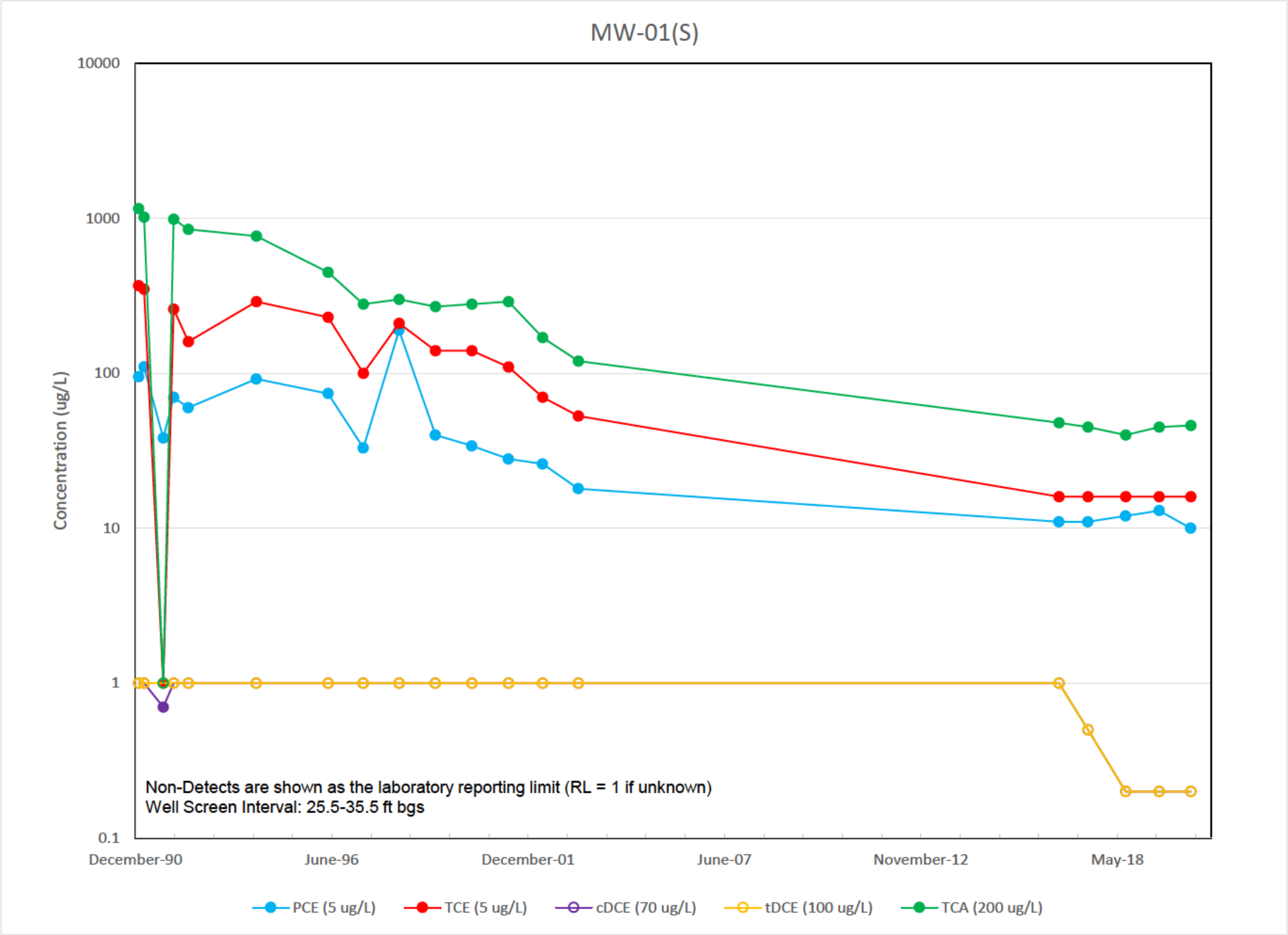
Appendix C - Communication Plan/Contacts
Granville Solvents Site; Granville, Ohio

Title/Name	Contact Information	Communication Recipients *			
		Routine	Non-Routine	Emergency	Other/ Contingency
Granville Solvents Site Response Management Group, LLC Project Coordinator					
Bridget Morello	bmorello@progressiveec.com Progressive Engineering & Construction, Inc. 12402 N. 56th Street Tampa, FL 33617 Phone: 813-930-0669 x 205 Fax: 813-930-9809	X	X	X	X
USEPA Remedial Project Manager					
Sheri Bianchin	bianchin.sheri@epa.gov EPA Region 5 Superfund Division 77 W. Jackson Blvd. (SR-6J) Chicago, IL 60604 Phone: 312-886-4745		X	X	X
Ohio EPA Project Manager					
Ray Moreno	raymond.moreno@epa.ohio.gov Ohio EPA-CDO Kazarus Government Center 50 West Town Street, Suite 700 Columbus, OH 43215 Phone: 614-728-3833		X	X	X
Village of Granville, Village Manager					
Herb Koehler	hkoehler@granville.oh.us Village of Granville P.O. Box 514 141 East Broadway Granville, OH 43023 Phone: 740-587-0700			X	X
Granville Water Department Superintendent					
Larry Fruth	waterdept@granville.oh.us Village of Granville Water Department 445 Palmer Lane Granville, OH 43023 Phone: 740-587-0165	X	X	X	X

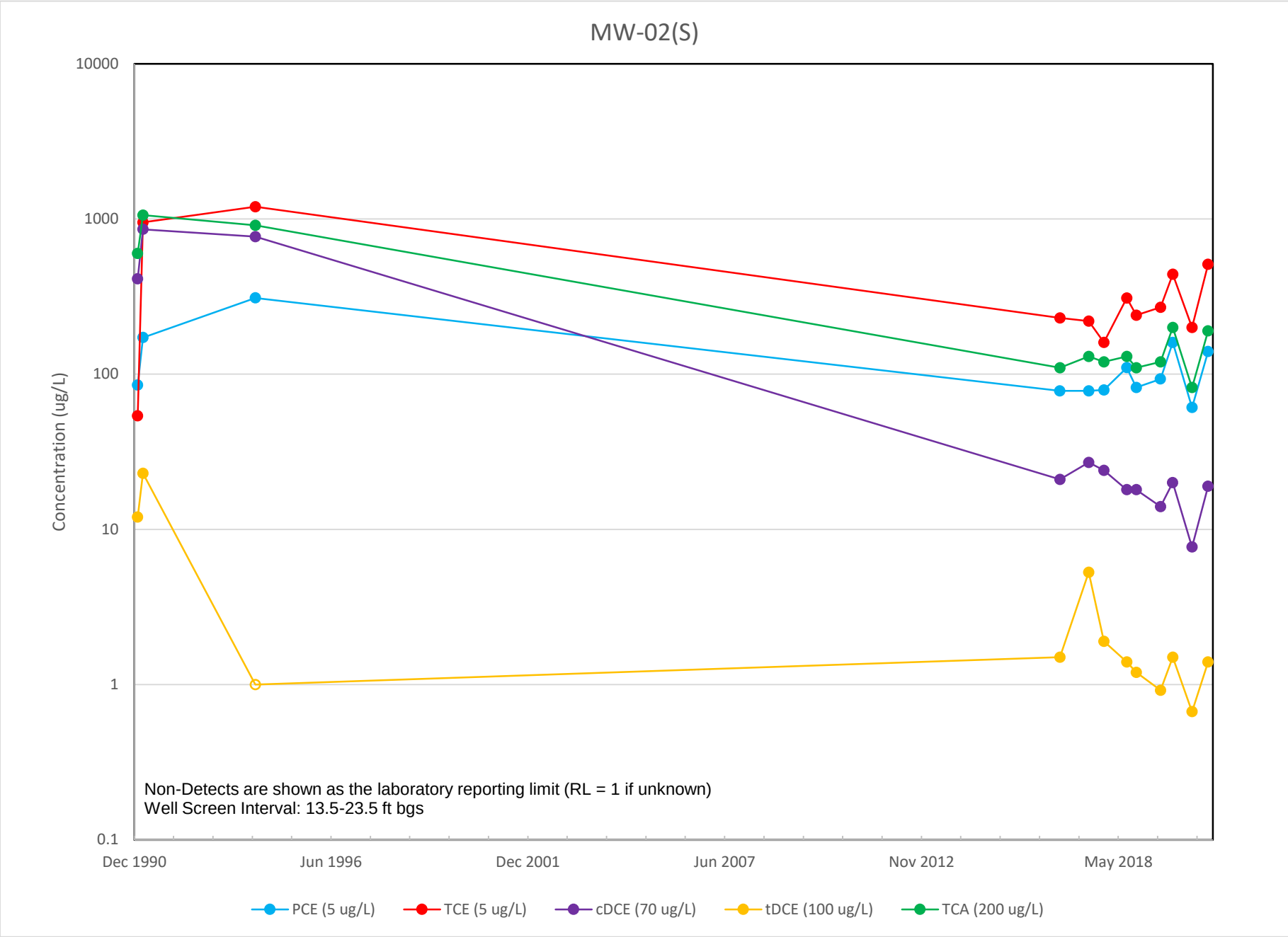
* All parties will be recipients of the Group's Project Update Letters and Annual Groundwater Monitoring Reports.

APPENDIX D

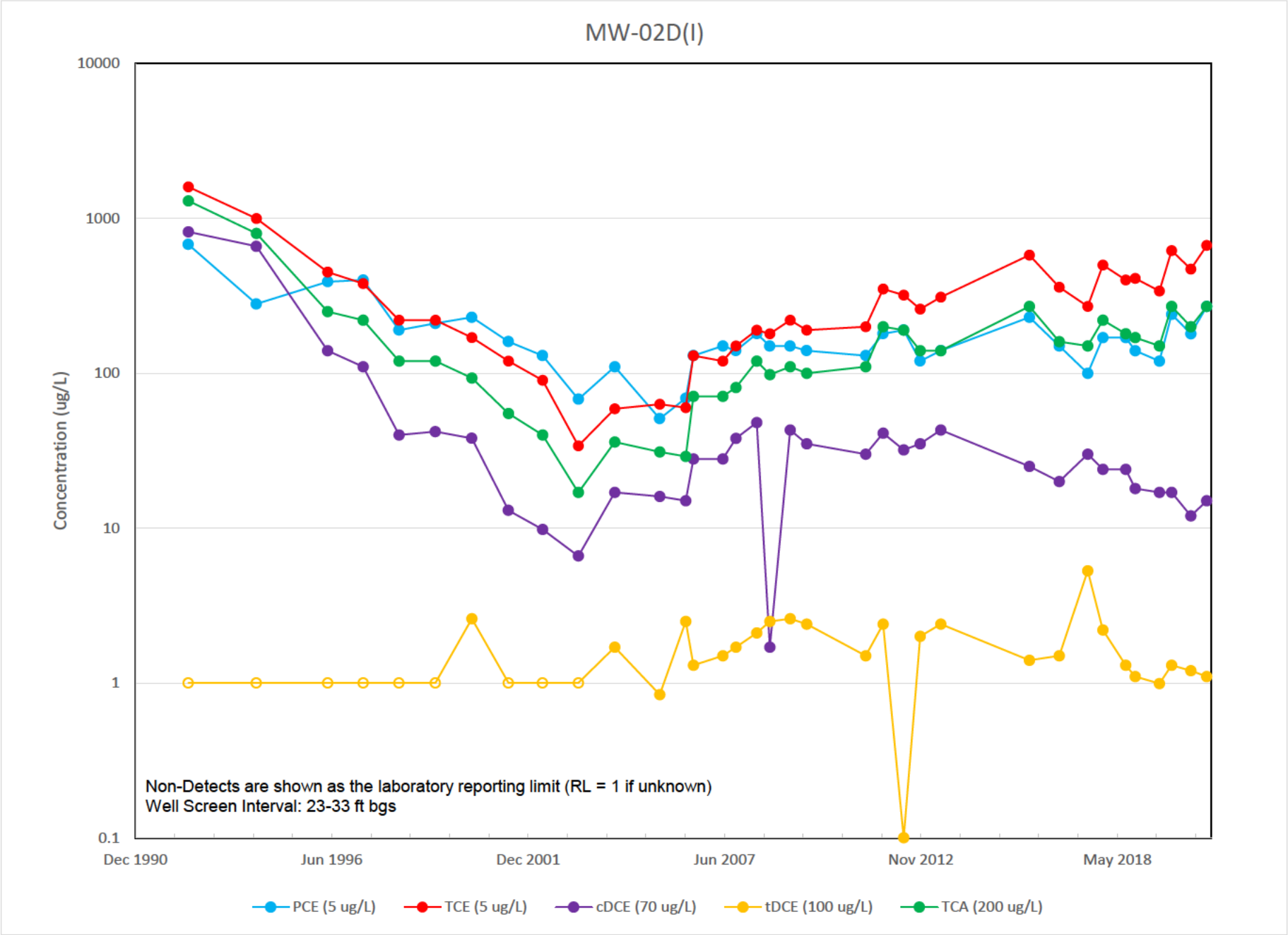
Trend Graphs



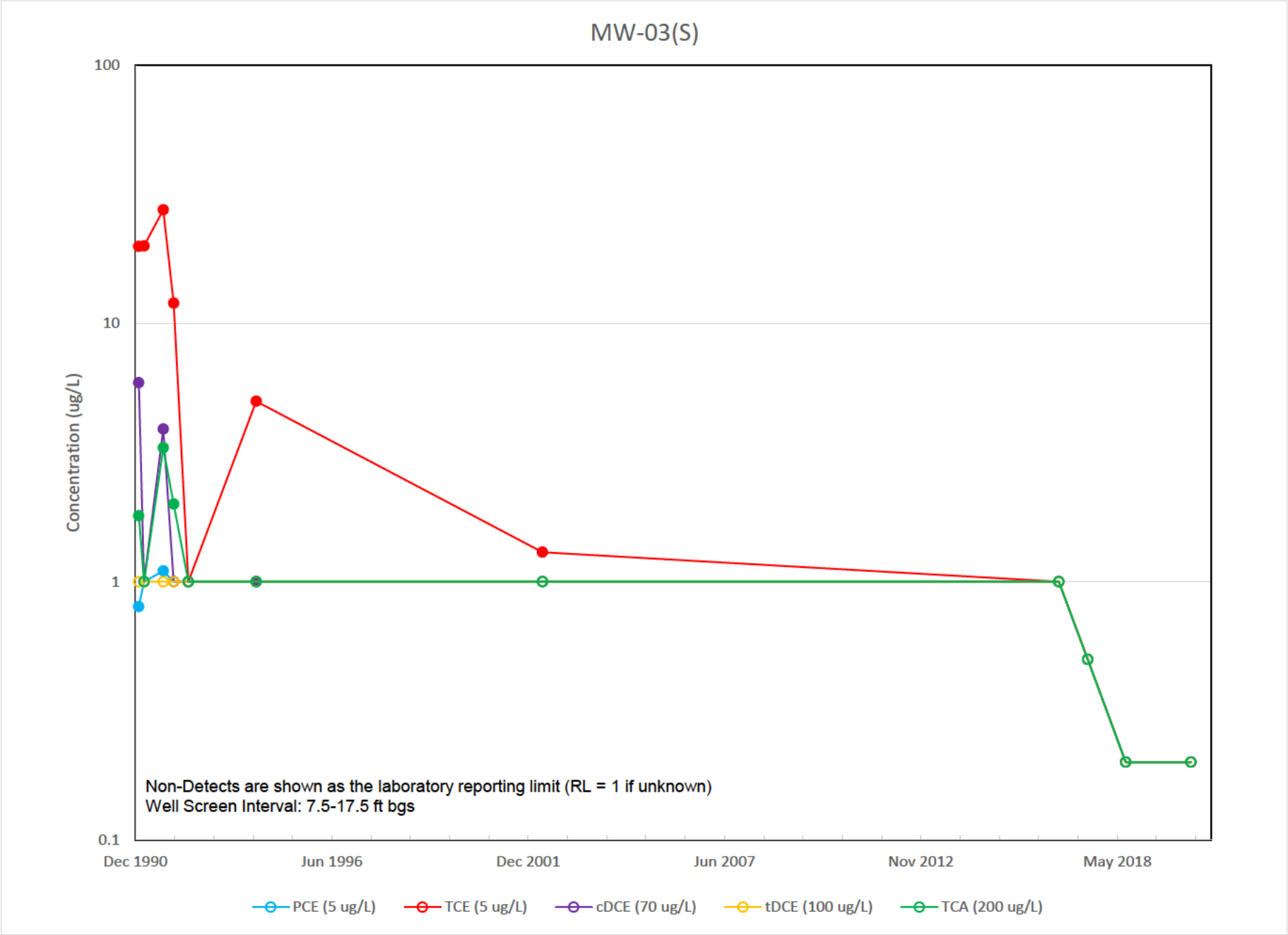
00068717.XLSX



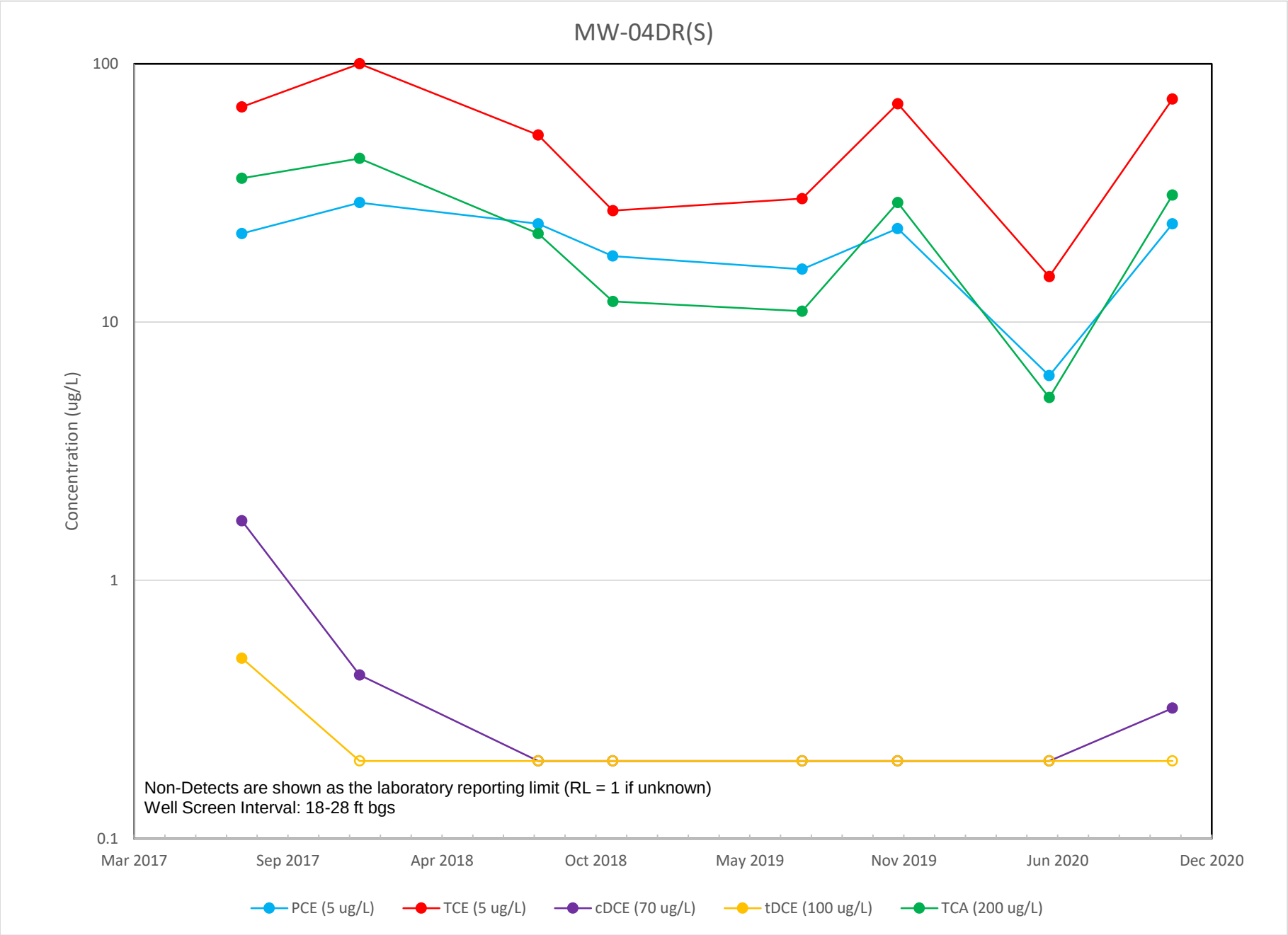
00068717.XLSX



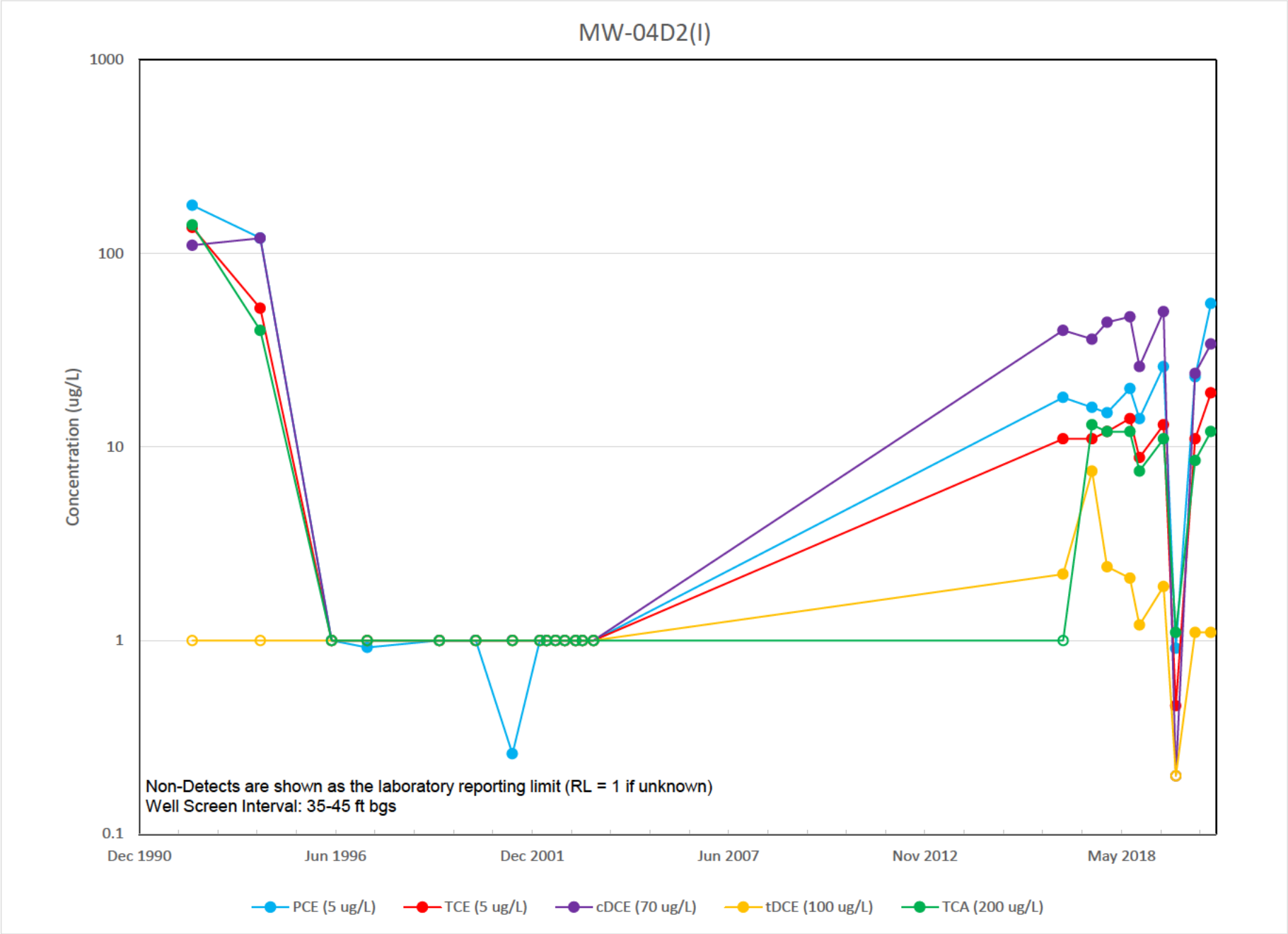
00068717.XLSX



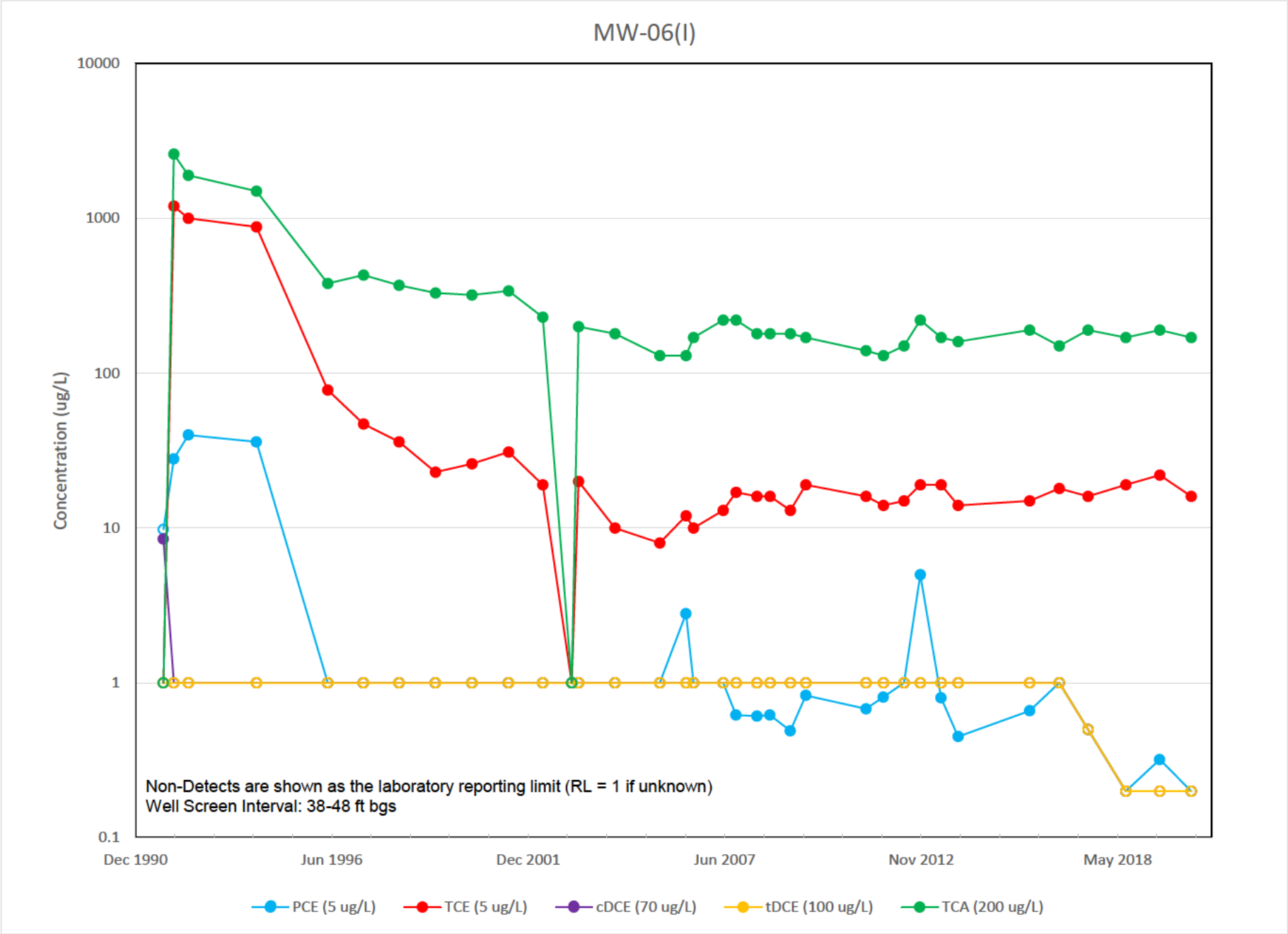
00068717.XLSX



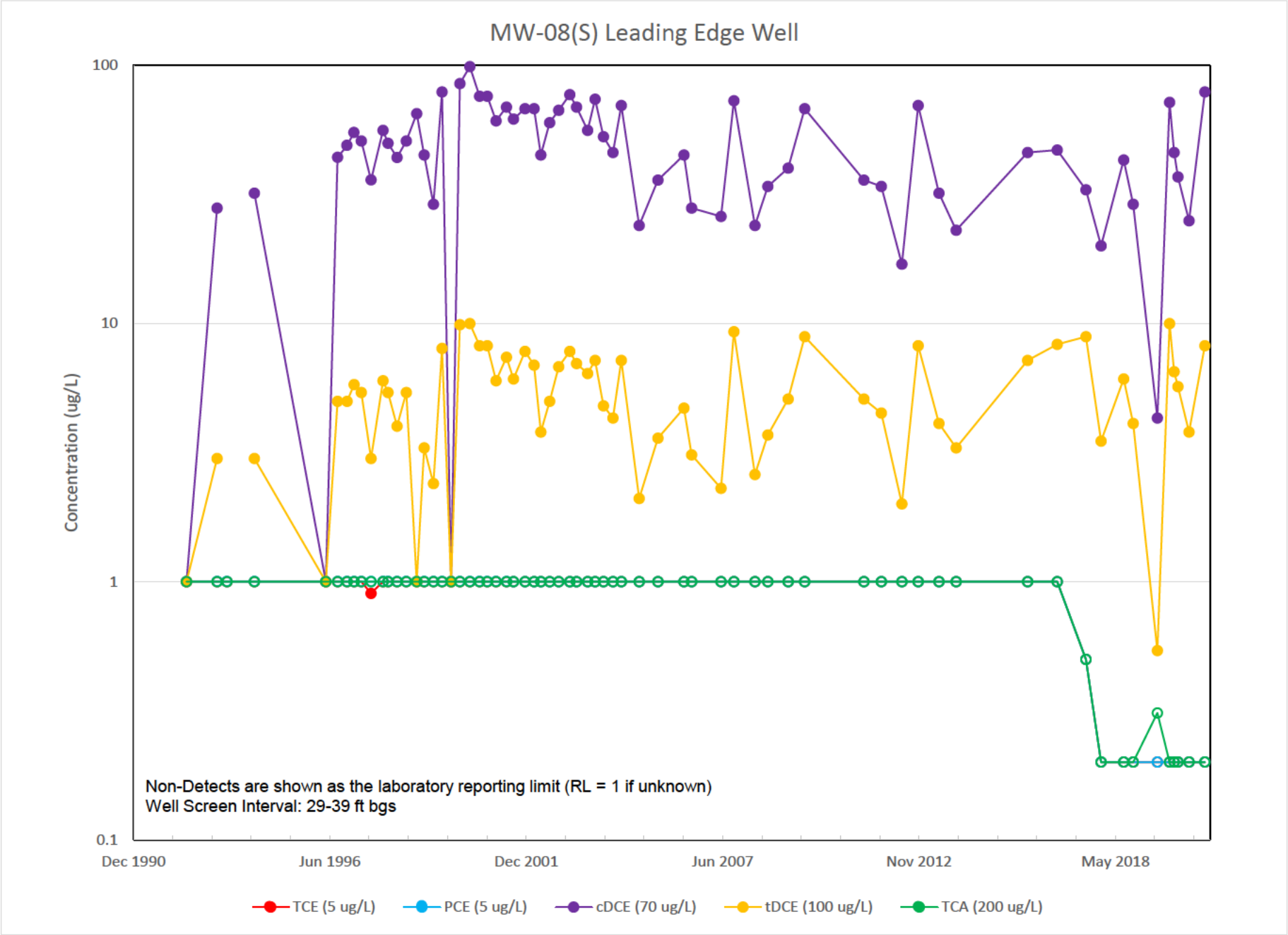
00068717.XLSX



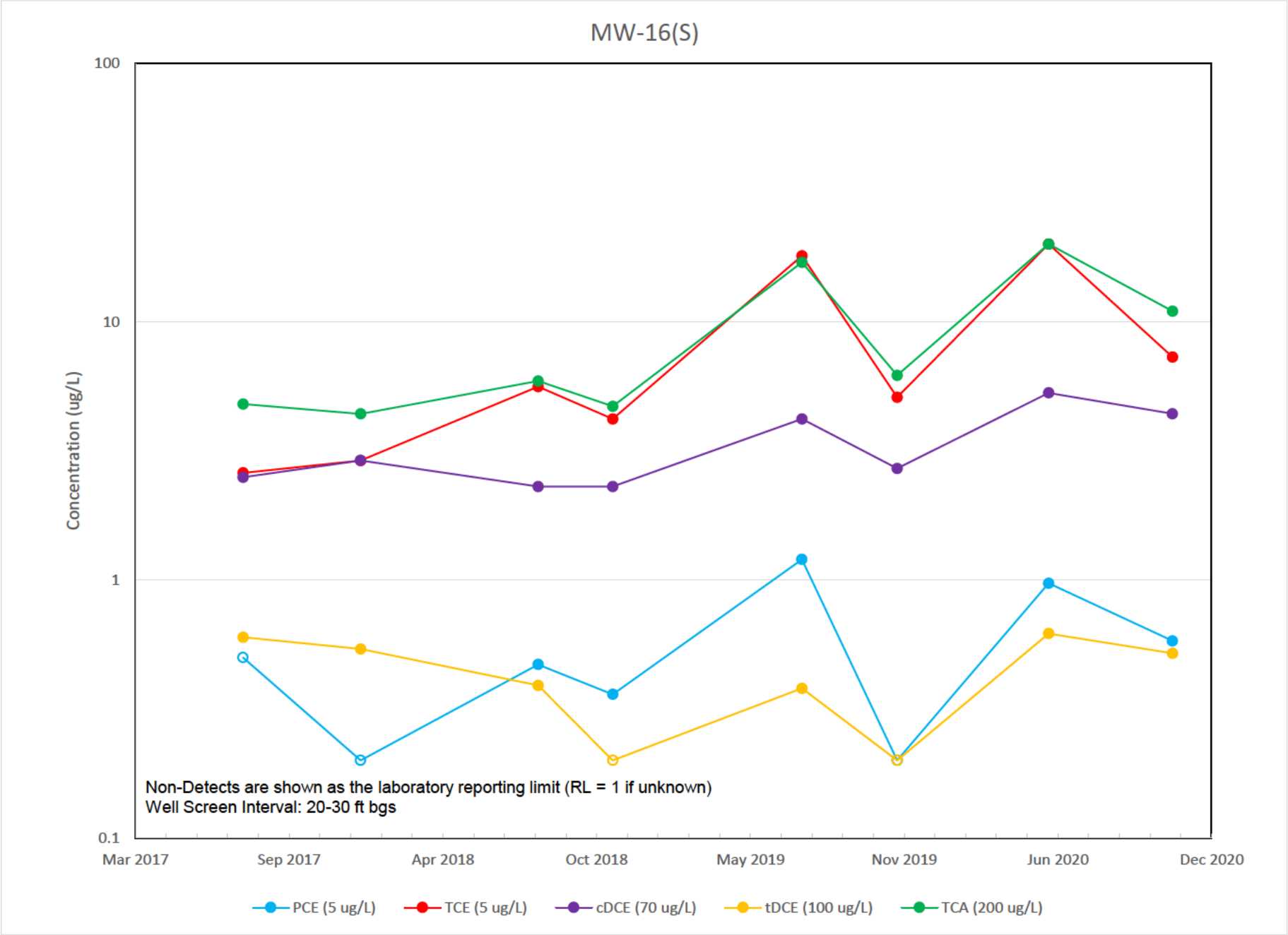
00068717.XLSX



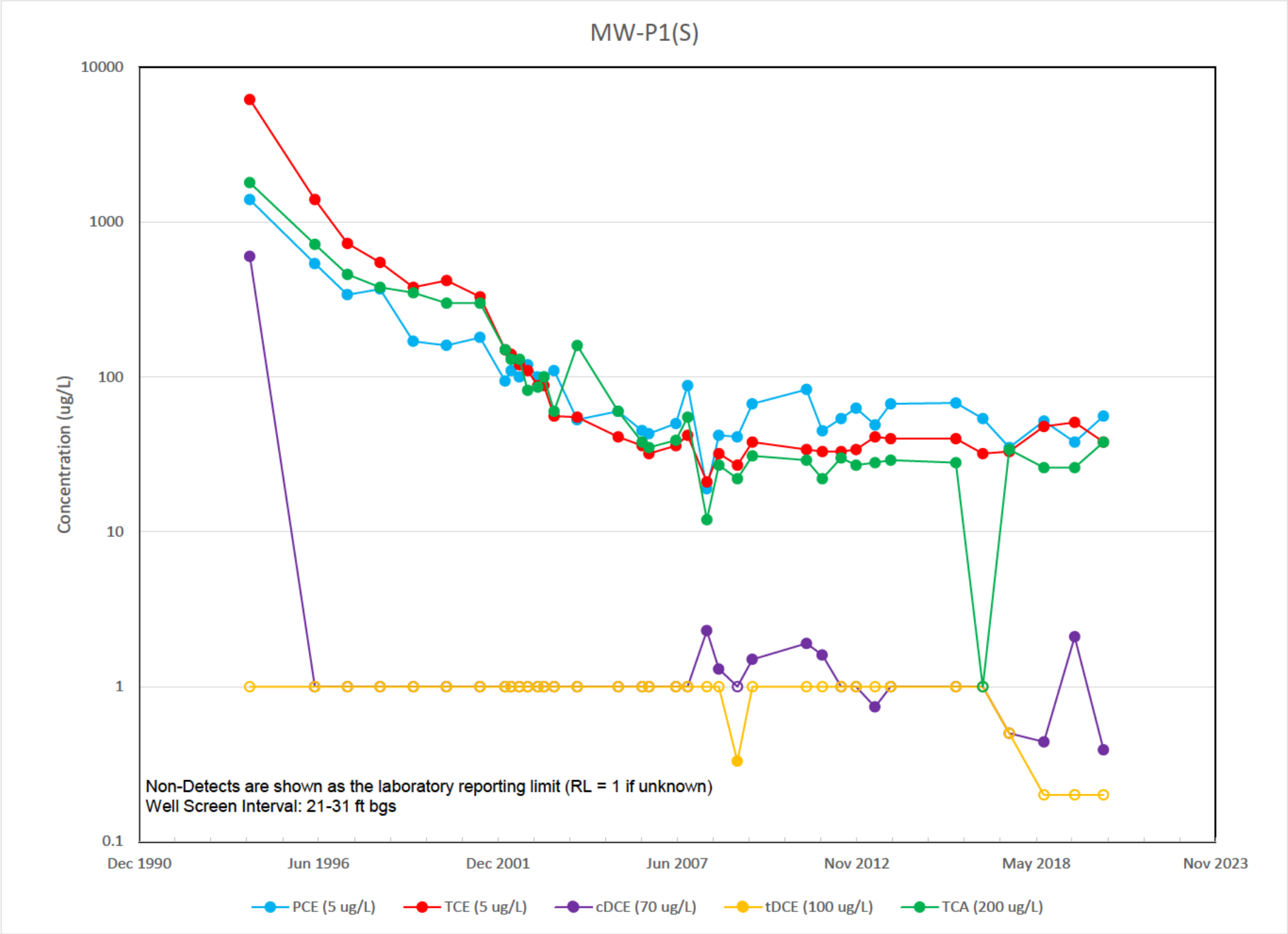
00068717.XLSX



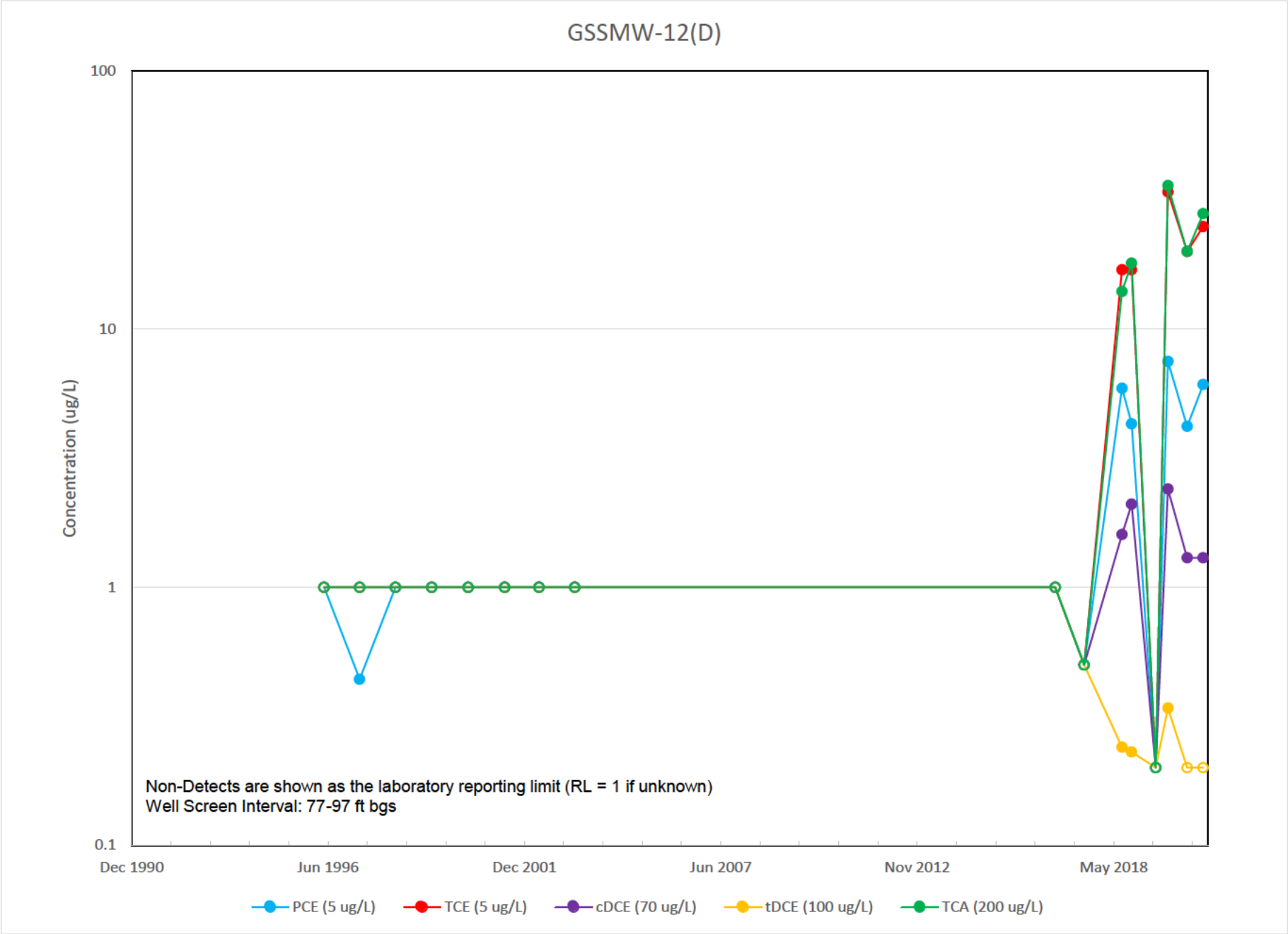
00068717.XLSX



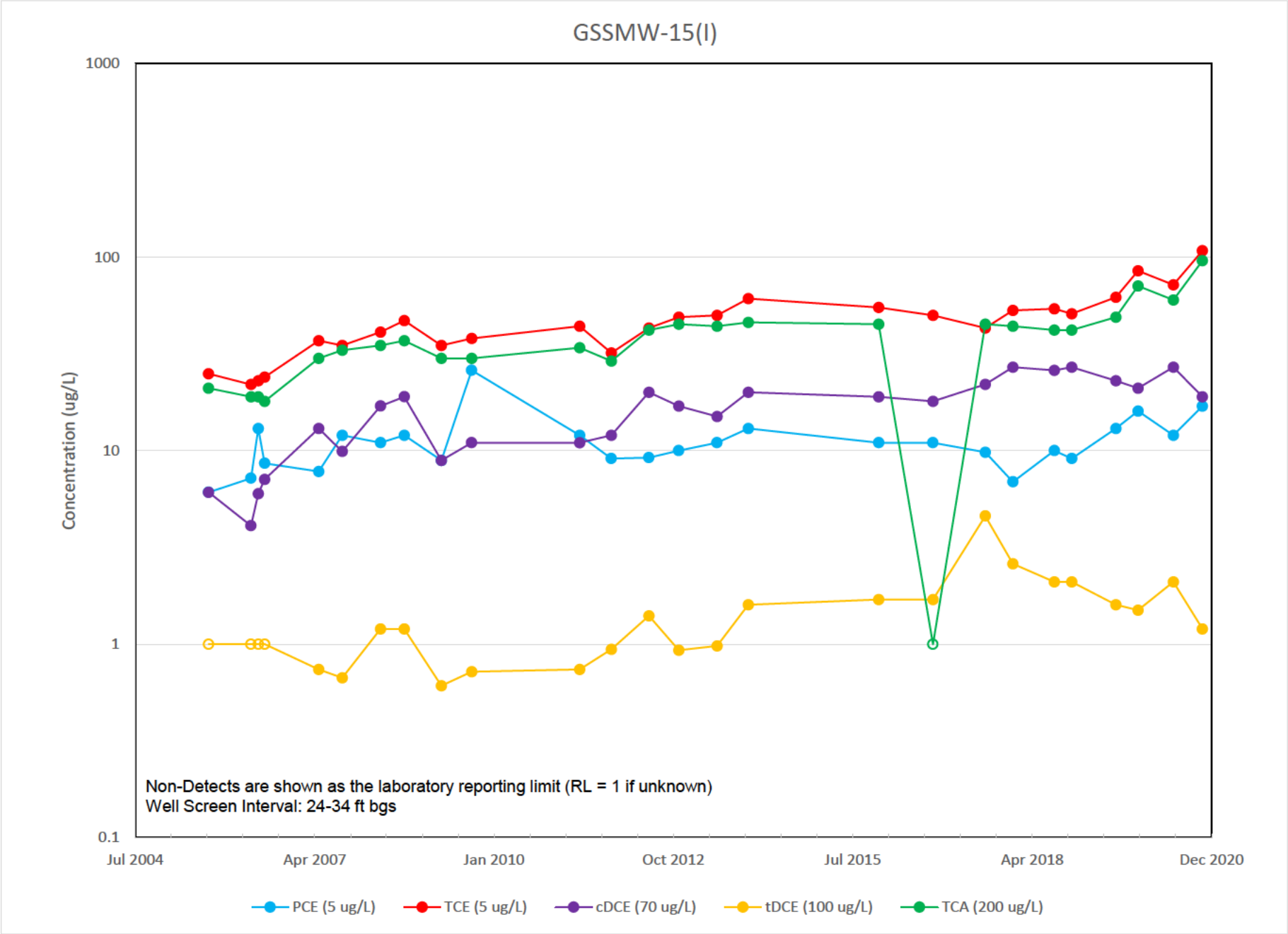
00068717.XLSX



00068717.XLSX



00068717.XLSX



00068717.XLSX

APPENDIX E

Data Validation Packages

DATA VALIDATION REPORT

Laboratory:	Southern Research Laboratories, Inc.
Data Package #:	2006017
Site:	Granville Solvents Site, Granville, OH
Sampling Event:	June 1-3, 2020
Reviewer:	Ken Callahan
Date:	December 16, 2020

A review was conducted of the data from groundwater samples collected at the Granville Solvents Site located in Granville, OH. Sampling was performed June 1-3, 2020, by Progressive Engineering & Construction, Inc. The samples were sent to Southern Research Laboratories, Inc. (SRL) of Orlando, Florida for analysis of volatile organic compounds (VOCs) according to SW-846 EPA Method 5030/8260B. Samples were received by the laboratory on June 5, 2020, on ice and cooled to an appropriate temperature (2.1° C).

The analysis was provided by the laboratory in Report Package **2006017.** A Level II review was performed on the data, and evaluated for the following where applicable:

- Chain-of-Custody forms,
- Case narrative,
- Sample holding times,
- Field QA, including field blanks, trip blanks, and field duplicates,
- Laboratory QA, including method blanks, matrix spike (MS)/matrix spike duplicates (MSDs), laboratory control standards (LCSs), and surrogate recoveries.

The quality of the data was acceptable as discussed below:

VOCs (EPA Method 5030/8260B)

A total of groundwater 34 samples, one trip blank, three equipment blanks, four duplicates, and two pairs of MS/MSDs were analyzed for VOCs.

- Samples were analyzed from June 11-13, 2020. This was within the required holding time of 14 days for preserved samples.

- Associated samples that were analyzed included: PW-04(D), PW-02(D), PW-01(D), GSSMW-14(D), GSS-P3(D), MS/MSD-1 (GSS-P3(D)), GSSMW-04(I), MW-01(S), Equipment Blank-1, GSS-P2(D), GSSMW-02(S), GSSMW-10(I), GSSMW-09(I), GSSMW-08(I), MS/MSD-2 (GSSMW-08(I)), PW-03A(D), MW-07(S), MW-07D(I), GSSMW-15(I), Duplicate-1 (GSSMW-15(I)), MW-08D(I), MW-08(S), MW-16(S), MW-17(I), MW-06(I), MW-06D(D), GSSMW-05(I), Equipment Blank-2, MW-05(S), MW-03(S), GSSMW-13(D), MW-04DR(S), MW-04D2(I), Duplicate-2 (MW-04D2(I)), MW-P1, Duplicate-3 (MW-P1(S)), GSSMW-12(D), MW-02(S), Duplicate-4 (MW-02(S)), MW-02D(I), Equipment Blank-3, and Trip Blank.

- Two method blanks were analyzed with this set of samples. No target analytes were detected in the method blanks and the surrogate recoveries were within QC limits, so no data needed to be qualified based upon method blank results.
- One trip blank was analyzed with this set of samples. No target analytes were detected in the trip blank and the surrogate recoveries were within QC limits, so no data needed to be qualified based upon trip blank results.
- Three equipment blanks were analyzed with this set of samples. No target analytes were detected in the equipment blank and the surrogate recoveries were within QC limits, so no data needed to be qualified based upon equipment blank results.
- Several samples had to be diluted (at a dilution factor of 10) to bring analytes within calibration range, as summarized below:
  - MW-06(I): 1,1,1-trichloroethane (1,1,1-TCA).
  - MW-02(S): Trichloroethene (TCE)
  - Duplicate-4: TCE.
  - MW-02D(I): Tetrachloroethene (PCE), 1,1,1-TCA, and TCE.
- All surrogate recoveries in all project samples were within QC limits for recovery for all samples. No qualifiers are necessary.
- Two LCSs were analyzed with this set of samples. All analytes were within control criteria for percent recovery in the LCS. The calibration was deemed valid and no qualifiers are necessary based upon the LCS results.
- Two MS/MSD pairs were analyzed with this set of samples. The parent samples used for MS/MSD-1 and MS/MSD-2 were collected from GSS-P3(D) and GSSMW-08(I), respectively. All quality control analytes were within control criteria for percent recovery (30 – 170%) and relative percent difference (RPD).
- Duplicate samples were collected from GSSMW-15(I), MW-04D2(I), MW-P1(S), and MW-02(S). An evaluation of the results shows that the RPDs between the results are acceptable, summarized in the table below:

Analyte	GSSMW-15(I)		Duplicate-1		RPD	MW-04D2(I)		Duplicate-2		RPD
Chloroform	0.2	U	0.26	J	26.1%	--		--		--
Cis-1,2-dichloroethene	27		28		3.6%	24		24		0.0%
1,1-dichloroethane	7.4		7.4		0.0%	0.44	J	0.46	J	4.4%
1,1-dichloroethene	0.76	J	0.86	J	12.3%	--		--		--
PCE	12		13		8.0%	23		23		0.0%
Trans-1,2-dichloroethene	2.1		2.1		0.0%	1.1		0.97	J	12.6%
1,1,1-TCA	60		62		3.3%	8.5		8.5		--
TCE	72		75		4.1%	11		11		0.0%

Analyte	MW-P1(S)		Duplicate-3		RPD	MW-02(S)		Duplicate-4		RPD
Cis-1,2-dichloroethene	0.39	J	0.37	J	5.3%	7.7		8.3		7.5%
1,1-dichloroethane	--		--		--	2.8		2.9		3.5%
1,1-dichloroethene	--		--		--	0.81	J	0.82	J	1.2%
PCE	56		58		3.5%	64		62		3.2%
Trans-1,2-dichloroethene	--		--		--	0.67	J	0.68	J	1.5%
1,1,1-TCA	38		39		2.6%	82		86		4.8%
TCE	38		39		2.6%	200		200		0.0%

Summary

Quality Assurance Project Plan requirements for frequency of collection of duplicates, blanks, and quality control samples were met. No additional qualifiers beyond those already flagged "J" by the laboratory for being estimated concentrations reported between the method detection limit (MDL) and practical quantitation limit (PQL) are needed based upon the review of the data set and associated Quality Control data.

DATA VALIDATION REPORT

Laboratory:	Southern Research Laboratories, Inc.
Data Package #:	2011027
Site:	Granville Solvents Site, Granville, OH
Sampling Event:	November 10-11, 2020
Reviewer:	Ken Callahan
Date:	December 11-16, 2020

A review was conducted of the data from groundwater samples collected at the Granville Solvents Site located in Granville, OH. Sampling was performed November 10-11, 2020, by Progressive Engineering & Construction, Inc. The samples were sent to Southern Research Laboratories, Inc. (SRL) of Orlando, Florida for analysis of volatile organic compounds (VOCs) according to SW-846 EPA Method 5030/8260B. Samples were received by the laboratory on November 16, 2020, on ice and cooled to an appropriate temperature (2.3° C).

The analysis was provided by the laboratory in Report Package **2011027.** A Level II review was performed on the data, and evaluated for the following where applicable:

- Chain-of-Custody forms,
- Case narrative,
- Sample holding times,
- Field QA, including field blanks, trip blanks, and field duplicates,
- Laboratory QA, including method blanks, matrix spike (MS)/matrix spike duplicates (MSDs), laboratory control standards (LCSs), and surrogate recoveries.

The quality of the data was acceptable as discussed below:

VOCs (EPA Method 5030/8260B)

A total of groundwater 13 samples, one trip blank, one equipment blank, two duplicates, and one pair of MS/MSDs were analyzed for VOCs.

- Samples were analyzed from November 19-20, 2020. This was within the required holding time of 14 days for preserved samples.

- Associated samples that were analyzed included: MW-04D2(I), MW-04DR(S), GSSMW-09(I), MS/MSD-1 (GSSMW-09(I)), MW-17(I), MW-16(S), MW-08(S), GSSMW-15(I), Duplicate-1 (GSSMW-15(I)), GSSMW-08(I), MW-07D(I), Equip Blank-1, GSSMW-12(D), MW-02(S), Duplicate-2 (MW-02(S)), MW-02D(I), and TRIP BLANK.

- One method blank was analyzed with this set of samples. No target analytes were detected in the method blank and the surrogate recoveries were within QC limits, so no data needed to be qualified based upon method blank results.

- One trip blank was analyzed with this set of samples. No target analytes were detected in the trip blank and the surrogate recoveries were within QC limits, so no data needed to be qualified based upon trip blank results.
- One equipment blank was analyzed with this set of samples. No target analytes were detected in the equipment blank and the surrogate recoveries were within QC limits, so no data needed to be qualified based upon equipment blank results.
- Several samples had to be diluted (at a dilution factor of 20) to bring analytes within calibration range, as summarized below:
  - MW-02(S): tetrachloroethene (PCE), trichloroethene (TCE), and 1,1,1-trichloroethane (1,1,1-TCA).
  - MW-02D(I): PCE, TCE, and 1,1,1-TCA.
  - Duplicate-2: PCE, TCE, and 1,1,1-TCA.

- All surrogate recoveries in all project samples were within QC limits for recovery for all samples. No qualifiers are necessary.

- One LCS was analyzed with this set of samples. All analytes were within control criteria for percent recovery in the LCS. The calibration was deemed valid and no qualifiers are necessary based upon the LCS results.

- One MS/MSD pair was analyzed with this set of samples. The parent sample used for the MS/MSD was collected from GSSMW-09(I). All quality control analytes were within control criteria for percent recovery (30 – 170%) and relative percent difference (RPD).

- Duplicate samples were collected from GSSMW-15(I) and MW-02(S). An evaluation of the results shows that the RPDs between the results are acceptable, summarized in the table below:

Analyte	GSSMW-15(I)	Duplicate-1	RPD	MW-02(S)	Duplicate-2	RPD
Chloroform	0.27 J	0.27 J	0.0%	0.46 J	0.45 J	2.2%
Cis-1,2-dichloroethene	19	18	5.4%	19	18	5.4%
1,1-dichloroethane	4.5	4.4	2.2%	8.3	8.1	2.4%
1,1-dichloroethene	1.2	1.1	8.7%	1.8	1.5	18.2%
PCE	17	17	0.0%	140	150	6.9%
Trans-1,2-dichloroethene	1.2	1.3	8.0%	1.4	1.2	15.4%
1,1,1-TCA	96	96	0.0%	190	200	5.1%
TCE	108	108	0.0%	510	500	2.0%

Summary

Quality Assurance Project Plan requirements for frequency of collection of duplicates, blanks, and quality control samples were met. No additional qualifiers beyond those already flagged "J" by the laboratory for being estimated concentrations reported between the method detection limit (MDL) and practical quantitation limit (PQL) are needed based upon the review of the data set and associated Quality Control data.