AGEC
Applied GeoTech

ADDITIONAL MONITORING WELL INSTALLATION AND SAMPLING REPORT
FORSEYS CLEANERS AND LAUNDRY
856 25TH STREET
OGDEN, UTAH

PREPARED FOR:
OGDEN CITY COMMUNITY & ECONOMIC DEVELOPMENT
2549 WASHINGTON BLVD, SUITE 420
OGDEN, UT 84401

ATTENTION: BRANDON COOPER

AGEC PROJECT NO. 1210017 **JANUARY 28, 2021**

1.0 INTRODUCTION

This report presents a Monitoring Well Installation and Sampling Report for five additional groundwater monitoring wells installed in the vicinity of the Forsey Cleaners & Laundry facility at 856 East 25th Street in Ogden, Utah. Applied Geotechnical Engineering Consultants, Inc., (AGEC) was requested to install five additional groundwater monitoring wells and conduct sampling to help delineate the extent and degree of PCE/TCE contamination present in the soil and/or groundwater in the vicinity of the former dry cleaner on the property. This report presents a summary of the additional monitoring well installation, soil and groundwater sampling activities and the initial environmental sampling test results for the additional well locations.

1.1 Site Background and Previous Sampling Results

A house was built by 1906 at 856 East 25th Street and was converted into the East Side Nursing Home by the mid 1950s. The house/nursing home was removed by 1961 and replaced with the existing laundry facility at 856 East 25th Street. The building was occupied by Norge Cleaning Village/Meyer's Norge Village from the 1960s to the late 1980s. In the late 1980s, the business name changed to Forsey's Norge self serve laundry and then Forsey's Laundry and Cleaning Village, 4-C's Wash Basin and Four Seasons Laundromat. We understand that dry cleaning has not been performed on site since about 1987.

The property is listed on the RCRA Generator list for Meyers Cleaning Village at 856 25th Street. The facility was a small quantity generator of hazardous waste. The dry-cleaning facility was closed in early 1987 when the dry cleaning began to be performed at another facility. The business was sold in January 1988. The Forsey laundry does not perform dry cleaning on site.

To help determine if the historical dry cleaner has impacted the property, AGEC conducted a limited subsurface sampling investigation by obtaining soil and groundwater samples and performing a soil vapor investigation with locations inside and outside the existing building. This sampling event was not intended to delineate the extent of the contamination, if present, in the soil vapor, soil or groundwater.

Two exterior borings (GP-1 and GP-2) were advanced near the west and north side of the northwest end of the building, presumably where the historical dry-cleaning equipment was located (Figure 1). Two soil vapor sampling points (PRT-1 and PRT-2) were sampled adjacent to the borings west of the building. Two indoor subslab soil vapor samples were obtained in the northwest room, presumably near the historical dry-cleaning equipment.

The four soil samples did not contain concentrations of the analyzed contaminants above the laboratory reported detection limits with the exception of 2-Butanone also known as methyl ethyl ketone (MEK) and tetrachloroethylene (PCE). The contaminant concentrations were compared to the residential and commercial November 2019 EPA Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites. RSLs are not necessarily cleanup standards. The RSL's role in site "screening" is to help identify areas, contaminants, and conditions that may require further attention at a particular site. The detected concentrations of MEK and PCE were below the respective residential RSL values.

The only contaminant detected in the two groundwater samples above the laboratory method detection limits was PCE (Table 2). The concentrations of PCE were 0.0422 mg/L (GP-1) and 0.00661 mg/L (GP-2). The EPA Maximum Contaminant Level (MCL) for PCE is 0.005 mg/L, so both concentrations exceeded the MCL.

The only VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and trichloroethene (TCE) in VP-1 and VP-2.

The concentrations of PCE were significantly higher in the two subslab samples than the exterior PRT samples. The degradation process of PCE produces daughter products as it works toward non-regulated, non-toxic compounds. The primary daughter products of PCE include TCE, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, and vinyl chloride.

According to the EPA, motor vehicle exhaust is a constant source of 1,3-butadiene and it is usually found in ambient air at low levels in urban and suburban areas. Potential sources of chloroform include chlorine-treated drinking water. Chlorinated drinking water can leak from buried water supply or sanitary sewer lines. A floor drain was within several feet of VP-2 and is likely the source of the chloroform. Naphthalene is found in cigarette smoke, car exhaust and diesel fuel.

Based on the limited initial sampling performed at the site, it appeared the PCE contamination is a result of a historical release near the former dry-cleaning equipment.

The sources of 1,3-butadiene, chloroform and naphthalene in the soil vapor samples are unknown. As they each were only detected in one of four samples, these compounds did not appear to be widespread contaminants on the property.

Findings of the study were reported to Ogden City Business Development under AGEC Project No. 1200034, dated January 29, 2020.

To help determine the soil and groundwater conditions on site, AGEC installed five groundwater monitoring wells on site (MW-1 to MW-5), in the vicinity of the previously detected groundwater contamination in borings GP-1 and GP-2 with wells east of the building (up gradient) and northwest, west and southwest of GP-1 (Figure 1). The five initial groundwater monitoring wells (MW-1 to MW-5) were installed on December 22, 2020.

Soil Results

PCE was detected in the soil samples from MW-2, MW-3, MW-4 and MW-5 above the laboratory method detection limits. The analytical test results (Table 1 in Appendix A) indicate that the concentrations of PCE were below the November 2020 EPA Residential or Industrial Screening Levels (SLs). No other compounds were detected above the laboratory detection limits in boring MW-1, MW-2, MW-3 or MW-4. No compounds of concern were detected in boring MW-1 above the laboratory method detection limits.

Groundwater Results

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-2, MW-3 and MW-4. The analytical test results (Table 2 in Appendix A) indicate that the groundwater samples from MW-2, MW-3 and MW-4 contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits was TCE (0.00626 mg/L) in boring MW-3 which is above the TCE MCL of 0.005 mg/L.

Based on the soil gas, soil and groundwater samples obtained in the vicinity of the Forsey Cleaners & Laundry facility, a historical release of dry-cleaning solvent occurred. Concentrations of PCE and TCE are present in the groundwater above the MCL in at least one monitoring well. VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and TCE in VP-1 and VP-2. Soil contamination above the EPA SLs has not been encountered during the previous two sampling events.

As the PCE groundwater contamination was highest in MW-3, the extent of the groundwater plume was not delineated with this sampling investigation.

Findings of the study were reported to Ogden City Business Development under AGEC Project No. 1200908, dated January 28, 2021.

2.0 ADDITIONAL SITE INVESTIGATION SAMPLING ACTIVITIES

To help delineate the PCE/TCE plume at the site, five additional monitoring wells were installed down gradient (north and west) of MW-3.

2.1 Additional Monitoring Well Installation and Soil Sampling

AGEC installed four additional groundwater monitoring wells on site (MW-6 to MW-9), and one additional groundwater monitoring well off site (MW-10), down gradient of the highest concentrations of PCE/TCE previously detected in the groundwater in MW-3 (Figure 1). The five additional groundwater monitoring wells (MW-6 to MW-10) were installed on January 20, 2021.

Each well location was pre-marked and Blue-staked. The five additional wells were installed using hollow 3.25-inch inside diameter direct-push casing by drilling approximately 15 feet below the ground using a dual-tube sampling rod. The soil was logged and continuously sampled to the bottom of the borings in 5-foot intervals using disposable acetate liners. Groundwater was encountered in the borings at depths of approximately 7 to 8½ feet. Drilling and sampling equipment were decontaminated prior to arrival and between each boring with the use of a non-phosphate detergent (Alconox) and double rinsing in tap water with a pressure washer.

The soil samples obtained from the borings were screened on site with a photo-ionization detection (PID) meter. The PID was calibrated with a known concentration of isobutylene gas and zeroed at a background site location. Soil staining, odors and elevated PID readings were not detected during the sampling. As no evidence of contamination was detected in the borings, soil samples were obtained from each boring near the groundwater interface depth (6½ to 8½ feet below grade). A soil sample was also obtained from MW-6 at a depth of approximately 11 feet. Each soil sample was placed in two glass jars as provided by the analytical laboratory with no head space while wearing new disposable gloves. The sample jars were labeled with the location, depth, date and time, immediately stored in a cooler with ice and transported with chain of custody forms to a Utah-certified analytical laboratory, American West Analytical Laboratories (AWAL). The soil samples were analyzed for total VOCs.

The subsurface sampling indicated the materials encountered in borings MW-6 to MW-10 consist of approximately ½-foot of asphaltic concrete pavement overlying approximately ½-foot of base course. Approximately 1 to 4 feet of fill extends below the base course in borings MW-6 to MW-9. The fill consists of sandy lean clay and silty sand with gravel. The fill contains varying amounts of brick and concrete debris.

Approximately 6½ to 9½ feet of natural lean clay grading to sandy lean clay extends below the fill in borings MW-6 to MW-9 and below the base course in boring MW-10. Natural lean clay interlayered with silty to poorly-graded sand with silt extends below the natural lean clay to the maximum depth investigated, approximately 15 feet. Boring logs are presented on Figure 4 with notes and legend on Figure 5.

The wells were constructed with 10 feet of 1.5-inch inside diameter, schedule 40 PVC well screen with prepacked sand (2.25 inch OD). The inert screen for the wells extended approximately 2 to 5 feet above the groundwater interface to allow for sample collection in the uppermost aquifer. Blank schedule 40 PVC riser pipe extended from the screen to within approximately 6 inches of the top of the surrounding ground surface. A solid end cap was placed on the bottom of each of the well screen sections. Each well was constructed with approximately 1 to 2 feet of silica sand extending above the screen section and then hydrated bentonite to within 1 foot of the ground surface. Each well was completed with a 7-inch diameter flush-mounted monument embedded in concrete.

As the borings were advanced with direct push methods, excess drill cuttings were not produced.

2.2 Well Sampling

Development of the wells was performed on January 22, 2021, approximately 2 days after the wells were installed. The new wells were developed with the use of a peristaltic pump and by pumping a minimum of three well casing volumes. Free-product was not observed in the wells or purge water. The purge water removed during the well development was collected in buckets and deposited in a steel 55-gallon drum with sealing lid that was placed on the north side of the existing Forsey building. The drum and purge water will be stored on site temporarily until laboratory test results indicate the proper method of disposal.

The tops of each of the five additional new well casings on the property were surveyed after installation so that the groundwater elevations and gradient can be calculated (Table 4 in Appendix A). The depth to groundwater and the overall depth of the wells was measured in each monitoring well to determine the groundwater elevation in each well and the water column volume. The depth to water in the five additional new wells was measured on January 22, 2021, prior to purging and sampling. The wells were measured with a water level indicator probe to the nearest 0.01 foot. The probe was decontaminated between each monitoring well with non-phosphate soap (Alconox) and double rinsed in tap water. The groundwater elevations from the five wells were used to calculate the approximate hydraulic

gradient with the EPA Hydraulic Gradient Calculator (0.015 ft/ft) and groundwater flow direction across the property (approximately 277°) to the west-northwest (Figure 3).

Following the well development activities, groundwater samples were obtained on January 22, 2021, in general accordance with the sampling protocols as set by Utah State and the Environmental Protection Agency. The samples from each of the five wells were collected with the use of a peristaltic pump with low flow controls and new polyethylene tubing to fill the sample vials. A duplicate set of groundwater samples was obtained from monitoring well MW-6 (MW-6 Dup).

The samples were transferred directly to 40 ml glass vials equipped with Teflon septa and preserved with 2 percent hydrochloric acid as provided by the analytical laboratory. The sample vials were labeled, immediately stored in a cooler with ice to maintain an appropriate temperature of approximately 4°C and transported with chain of custody forms to AWAL. Chain of Custody forms supplied by the analytical laboratory were used. A set of trip blank samples prepared by the laboratory was stored with the five samples and duplicate and was submitted with the other samples for analytical testing for total VOCs.

2.3 Equipment Decontamination Procedures

Disposable well development and sampling equipment such as new polyethylene tubing and disposable gloves were used to help eliminate the possibility of cross-contamination and to simplify decontamination procedures.

3.0 LABORATORY RESULTS

During the January 20 and 22, 2021 sampling events, the six soil samples, five groundwater samples, one duplicate groundwater sample and the trip blank were submitted to AWAL for laboratory analyses to determine if significant concentrations of VOCs were present in the soil and/or groundwater on the property at the sampled locations. Quality control level 2+ was used by the analytical laboratory.

3.1 Soil Results

PCE was detected in the soil samples from MW-7 and MW-10 above the laboratory method detection limits. The analytical test results (Table 1 in Appendix A) indicate that the concentrations of PCE were below the November 2020 EPA Residential or Industrial Screening Levels (SLs). No other compounds were detected above the

laboratory detection limits in borings MW-7 or MW-10. No compounds of concern were detected in borings MW-6, MW-8 or MW-9 above the laboratory method detection limits.

3.2 Groundwater Results

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-6, MW-7, MW-8 and MW-10 (Figure 2). The analytical test results (Table 2 in Appendix A) indicate that the groundwater samples from MW-6, MW-7, MW-8 and MW-10 contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits was TCE (0.0127 mg/L) in boring MW-10, which is above the TCE MCL of 0.005 mg/L and chloroform (0.00410 mg/L) in MW-7. The concentration of chloroform is below the MCL of 0.080 mg/L.

3.3 Quality Control/Assurance Data Validation Report

The data validation conducted on the laboratory analytical data for the six soil and five groundwater samples is considered acceptable for use in meeting the project objectives. The samples were submitted to the analytical laboratory the same day they were sampled on January 20 and 22, 2021.

Chain of custody forms were filled out for the soil and groundwater samples. Copies of the AWAL test reports and QC summary reports are included in Appendix B of this report.

4.0 CONCLUSIONS

Based on the soil gas, soil and groundwater samples obtained in the vicinity of the Forsey Cleaners & Laundry facility, a historical release of dry-cleaning solvent occurred. Concentrations of PCE and TCE are present in the groundwater above the MCL in six of the ten monitoring wells installed at the site. VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and TCE in VP-1 and VP-2. Soil contamination above the EPA SLs has not been encountered during the previous two sampling events.

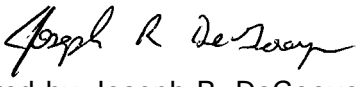
As the PCE groundwater contamination is above the MCL in MW-7, MW-8 and MW-10 the extent of the PCE groundwater plume has not been delineated with this sampling investigation, and has been shown to impact the neighboring property to the west.

5.0 LIMITATIONS

This study has been prepared in accordance with generally accepted environmental practices in this area for the use of the client. The conclusions of the report are based on information obtained from field observations and testing of the soil and groundwater samples obtained at the approximate locations indicated in the report and the data obtained from the field and laboratory testing.

Applied Geotechnical Engineering Consultants, Inc. does not represent that the soil and groundwater on the property contains no hazardous materials or other latent conditions beyond what was found for the compounds and locations tested.

APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.



Prepared by Joseph R. DeGooyer

Reviewed by Thomas R. Atkinson

FIGURES

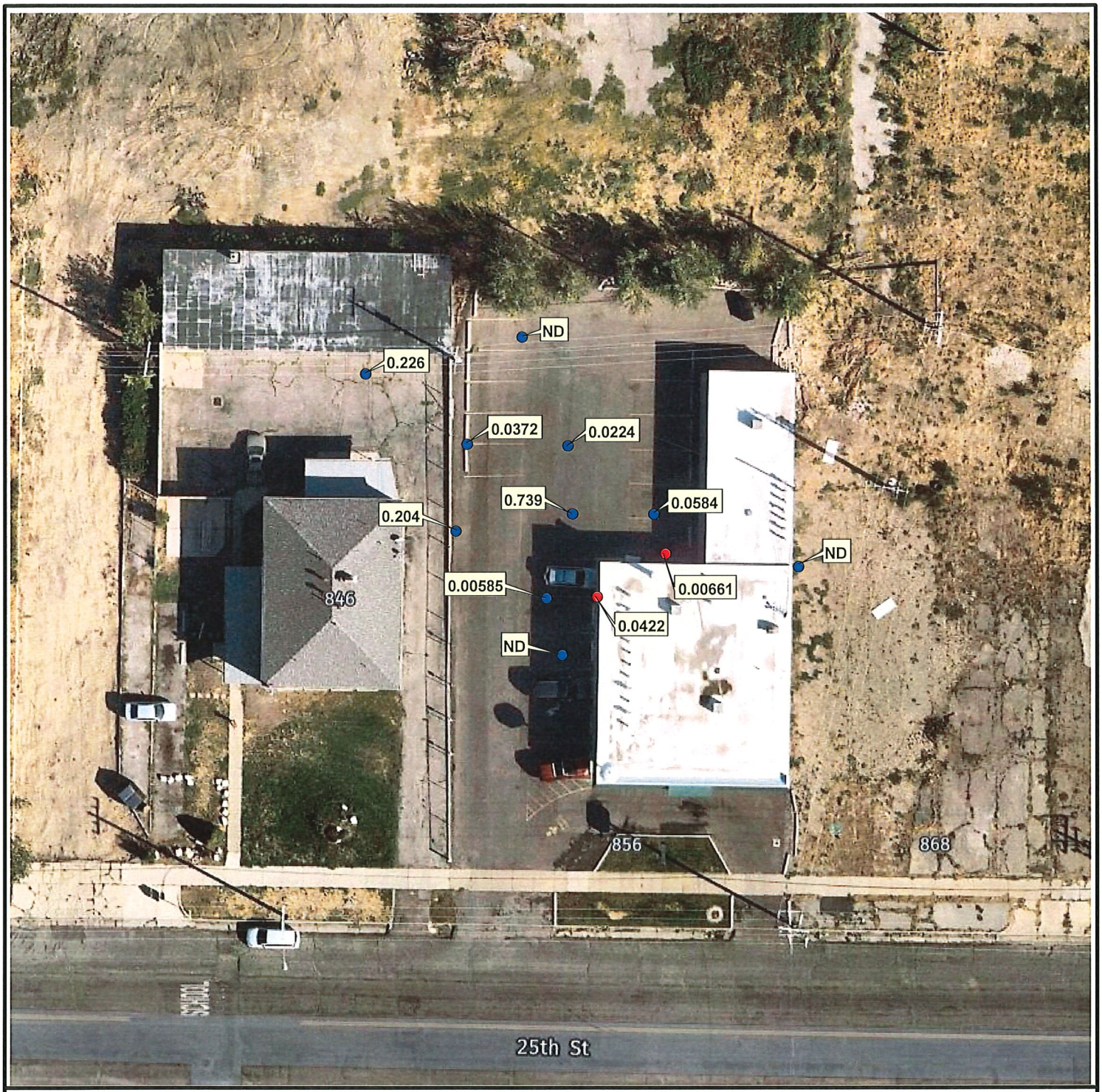
From NearMap Aerial Photograph
September 11, 2020

FORSEY CLEANERS & LAUNDRY
856 25TH STREET
OGDEN, UTAH

N

Approximate Scale
1 inch = 40 feet

1210017	ABEC	Monitoring Wells and Sample Locations	Figure 1



From NearMap Aerial Photograph
September 11, 2020

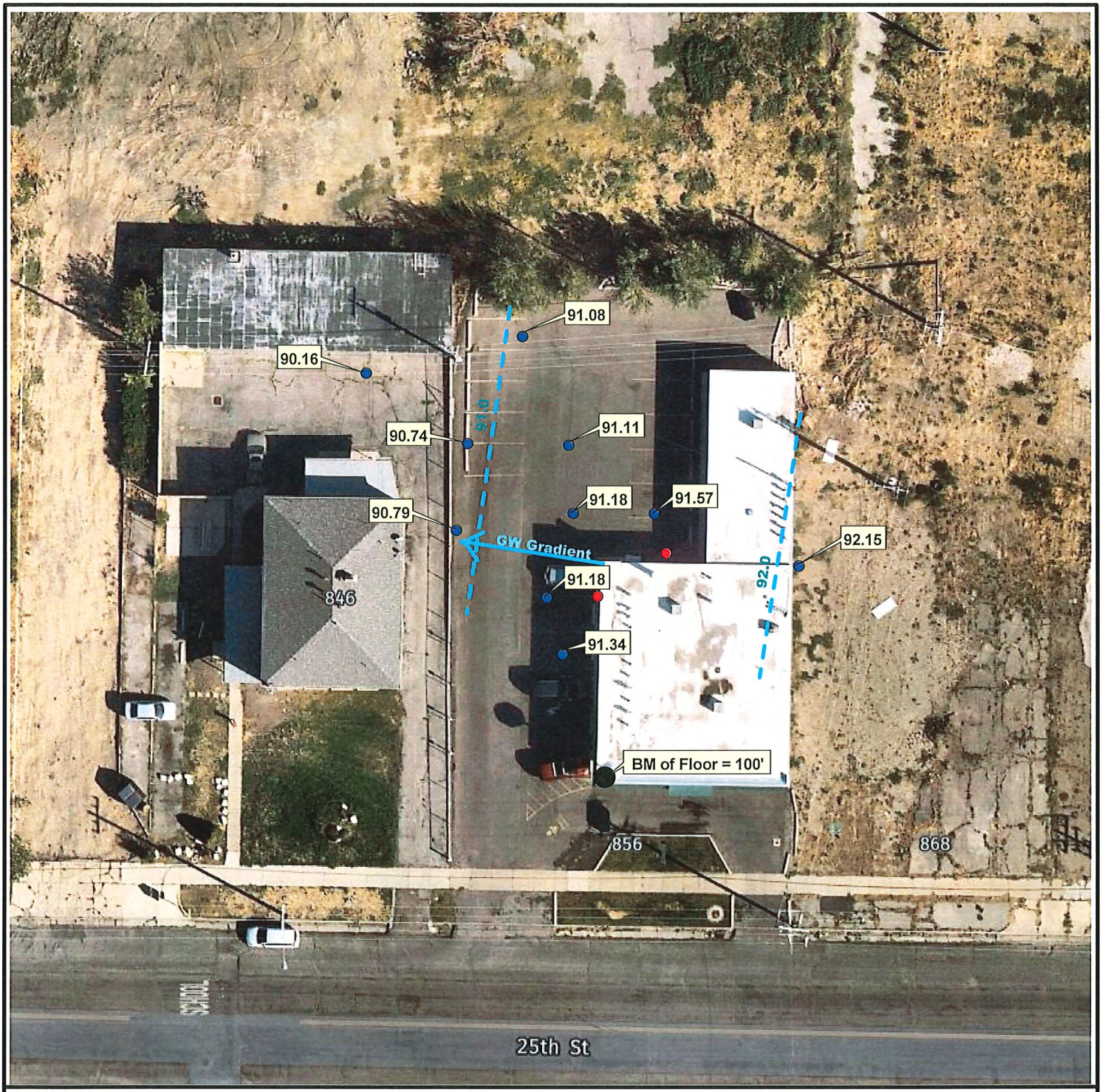
● = PCE (mg/L)

N

Approximate Scale
1 inch = 40 feet

FORSEY CLEANERS & LAUNDRY
856 25TH STREET
OGDEN, UTAH

1210017	AGEC	PCE Detected in Monitoring Wells (12-2020 & 01-2021)	Figure 2



From NearMap Aerial Photograph
September 11, 2020

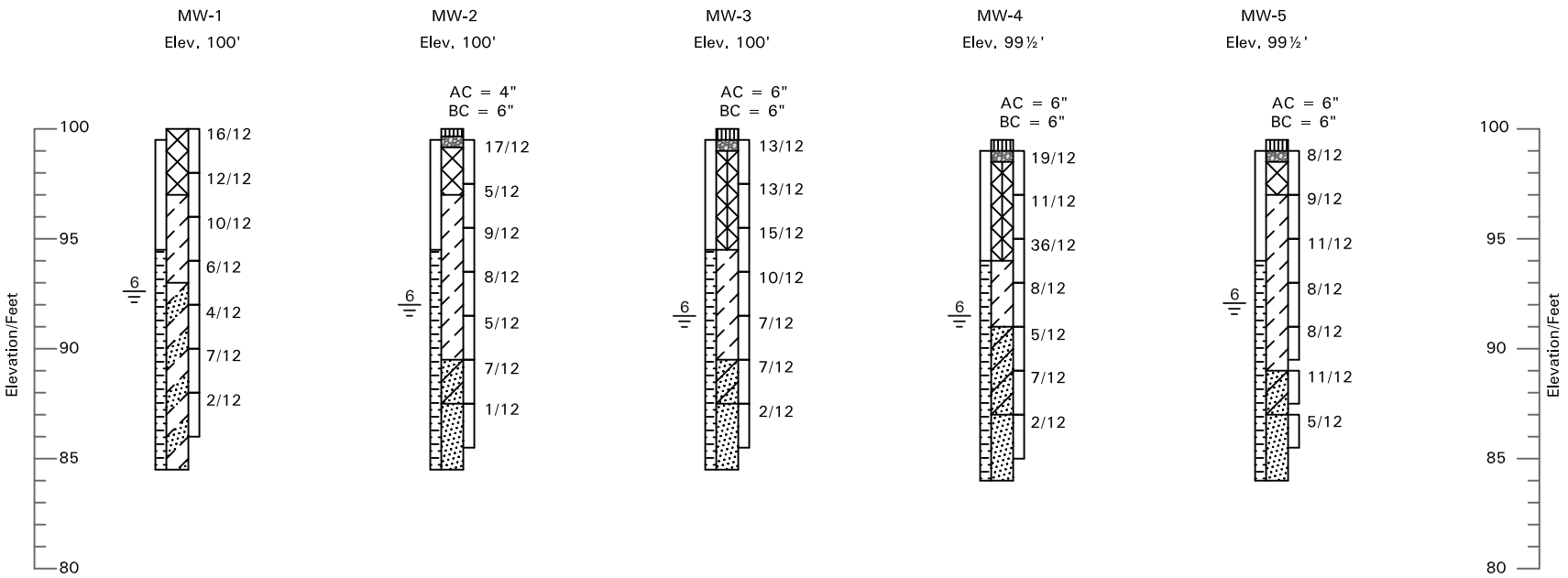
● = GW Elevation RSB

N

Approximate Scale
1 inch = 40 feet

FORSEY CLEANERS & LAUNDRY
856 25TH STREET
OGDEN, UTAH

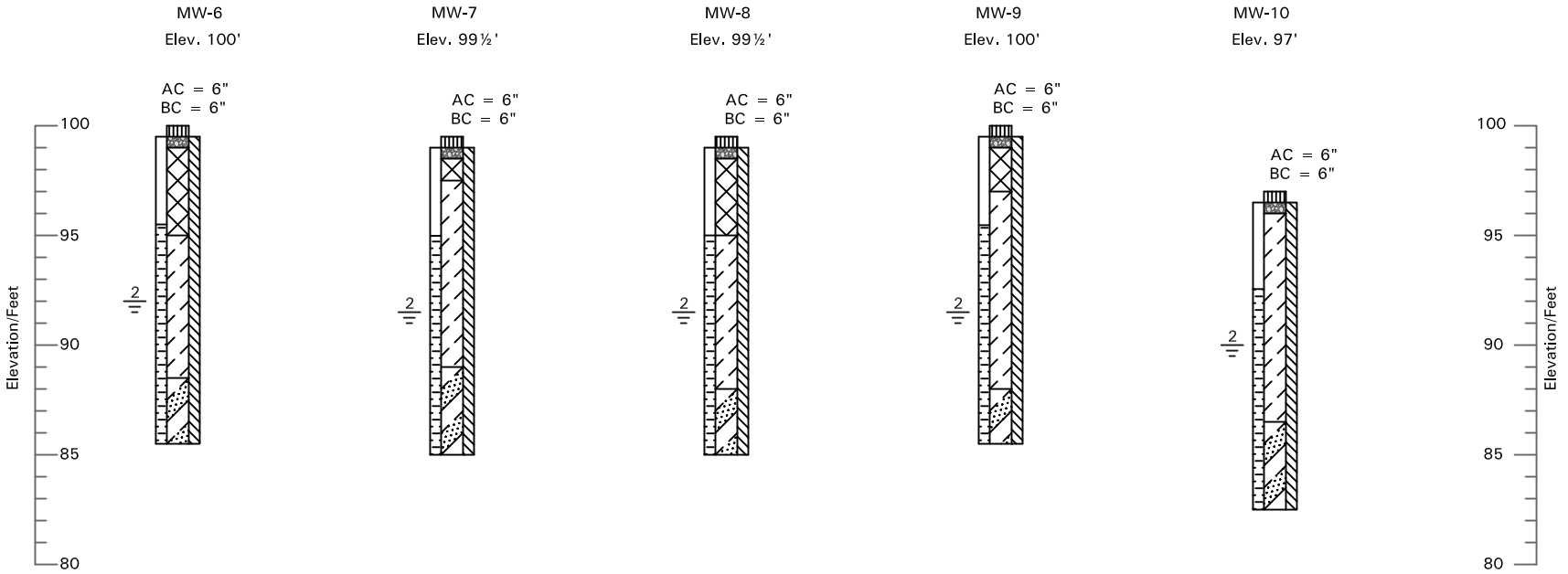
1210017	AGES	Groundwater Gradient (12-2020 & 01-2021)	Figure 3



Approximate Vertical Scale 1" = 8'

See Figure 6 for Legend and Notes

1210017	AGEC	Exploratory Boring Logs	Figure 4



Approximate Vertical Scale 1" = 8'

See Figure 6 for Legend and Notes

1210017	AGEC	Exploratory Boring Logs	Figure 5

LEGEND:


Asphaltic Concrete; dense, dry, black, poor to good condition.


Base Course; silty gravel with sand, moist, brown, angular aggregates.


Fill; lean clay to sandy lean clay to silty gravel with sand, moist, dark brown to brown to dark gray, petroleum hydrocarbon odor in MW-1 and MW-2.


Lean Clay (CL); sandy, stiff to medium stiff, moist, dark brown to brown, slight petroleum hydrocarbon odor in MW-2.


Silty Sand (SM); loose to medium dense, moist, light brown.


Poorly-graded Sand (SP); slightly gravelly, medium dense, wet, brown.


Poorly-graded Sand with Silty Sand (SP/SM); medium dense, moist, brown to gray.


Poorly-graded Gravel with Sand (GP); loose to very dense, moist to wet, brown to gray, petroleum hydrocarbon odor in MW-2.


Poorly-graded Gravel with Silt and Sand (GP-GM); medium dense, moist to wet, grayish brown.

California Drive sample taken. The symbol 10/12 indicates that 10 blows from a 140-pound automatic hammer falling 30 inches were required to drive the sampler 12 inches.


Indicates continuous soil sample taken. The samples were obtained with disposable acetate liners.


Indicates slotted 1½-inch PVC pipe installed in the boring to the depth shown.


Indicates solid 1½-inch PVC pipe installed in the boring to the depth shown.

Indicates the depth to free water and number of days after drilling the measurement was taken.

NOTES:

1. Borings MW-1 TO MW-5 were drilled on December 3, 2020 using direct push equipment. Borings MW-6 to MW-10 were drilled on January 20, 2021.
2. Locations of the borings were measured approximately by pacing from features shown on the site plan provided.
3. Elevations of the borings were measured by automatic/hand level and refer to the benchmark shown on Figure 1.
4. The boring locations and elevations should be considered accurate only to the degree implied by the method used.
5. The lines between materials shown on the boring logs represent the approximate boundaries between material types and the transitions may be gradual.
6. The water level readings shown on the logs were made at the time and under the conditions indicated. Fluctuations in the water level will occur with time.

APPENDIX A

ANALYTICAL RESULT TABLES

Soil and Groundwater Analytical Results
Forsey's Laundry

Table 1 - Soil Results

Sample	Depth (feet)	Date	PID (ppm)	MEK* (mg/kg)	PCE** (mg/kg)
GP-1	0 to 2	1/20/2020	0.4	0.0306	0.0104
GP-1	7	1/20/2020	5.4	0.031	0.0108
GP-2	0 to 2	1/20/2020	0	0.0275	0.0135
GP-2	7	1/20/2020	1.1	0.0324	ND
MW-1	6½ to 8½	12/22/2020	0	ND	ND
MW-2	6½ to 8½	12/22/2020	0.1	ND	0.00279
MW-3	6½ to 8½	12/22/2020	0.1	ND	0.018
MW-4	6½ to 8½	12/22/2020	0.2	ND	0.00385
MW-5	6½ to 8½	12/22/2020	0.1	ND	0.00336
MW-6	6 to 7	1/20/2021	0.4	ND	ND
MW-6	10 to 11	1/20/2021	0.5	ND	ND
MW-7	6½ to 8½	1/20/2021	0.6	ND	22.1
MW-8	6½ to 8½	1/20/2021	0.3	ND	ND
MW-9	6½ to 8½	1/20/2021	0.3	ND	ND
MW-10	6½ to 8½	1/20/2021	0.2	ND	13.8
November 2020 EPA Residential SL				27,000	24
November 2020 EPA Industrial SL				190,000	100

Table 2 - Groundwater Results

Sample	Depth (feet)	Date	PCE** (mg/L)	TCE*** (mg/L)
GP-1	7	1/20/2020	**0.0422**	ND
GP-2	7	1/20/2020	**0.00661**	ND
MW-1	7.5	12/28/2020	ND	ND
MW-1-Dup	7.5	12/28/2020	ND	ND
MW-2	8.2	12/28/2020	**0.0584**	ND
MW-3	8.2	12/28/2020	**0.739**	**0.00624**
MW-4	8.1	12/28/2020	**0.00585**	ND
MW-5	7.8	12/28/2020	ND	ND
Trip Blank	NA	12/28/2020	ND	ND
MW-6	8.3	1/20/2021	**0.0224**	ND
MW-6-Dup	8.3	1/20/2021	**0.0213**	ND
MW-7	8.2	1/20/2021	**0.204**	ND
MW-8	8.4	1/20/2021	**0.0372**	ND
MW-9	8.7	1/20/2021	ND	ND
MW-10	6.4	1/20/2021	**0.226**	**0.0127**
Trip Blank	NA	1/20/2021	ND	ND
November 2020 EPA MCL			0.005	0.005

* MEK identified as 2-Butadone in lab results

ND = Non Detect

** PCE identified as tetrachloroethene in lab results

NA = Not Applicable

*** TCE identified as trichloroethene

Table 3 - Soil Gas Analytical Results
Forsey's Laundry

Chemical	CAS Number	Toxicity Basis	PRT-1 ($\mu g/m^3$)	PRT-2 ($\mu g/m^3$)	VP-1 ($\mu g/m^3$)	VP-2 ($\mu g/m^3$)	Residential Target Sub-Slab and Near-source Soil Gas Concentration (TCR = 1E-06 or THQ = 0.1) C_{sg},Target ($\mu g/m^3$)	Commercial Target Sub-Slab and Near-source Soil Gas Concentration (TCR = 1E-06 or THQ = 0.1) C_{sg},Target ($\mu g/m^3$)
Acetone	67-64-1	NC	122	31.1	81.7	96.7	107,000	451,000
Benzene	71-43-2	CA	3.05	7.19	1.09	1.59	12	52.4
Butadiene, 1,3-	106-99-0	CA	ND	***26.8***	ND	ND	3.12	13.6
Carbon Disulfide	75-15-0	NC	ND	7.66	ND	ND	2,430	10,200
Carbon Tetrachloride	56-23-5	CA	2.03	ND	ND	ND	15.6	68.1
Chloroform	67-66-3	CA	ND	ND	ND	**17**	4.07	17.8
Chloromethane	74-87-3	NC	1.31	0.498	0.764	ND	313	1,310
Cyclohexane	110-82-7	NC	ND	ND	ND	0.813	20,900	87,600
Dichloroethene, 1,1-	75-35-4	NC	ND	ND	2.37	ND	695	2,920
Dichloroethene, cis 1,2-	156-59-2		ND	ND	19.6	9.67	NA	NA
Dioxane, 1,4-	123-91-1	CA	ND	ND	ND	6.56	18.7	81.8
Ethanol	64-17-5		50.5	7.52	30.4	27.5	NA	NA
Ethylbenzene	100-41-4	CA	1.08	1.21	1.68	ND	37.4	164
Ethyltoluene, 4-	622-96-8		ND	ND	2.91	ND	NA	NA
Trichlorofluoromethane	75-69-4		1.25	ND	2.24	1.31	NA	NA
Dichlorodifluoromethane	75-71-8	NC	ND	1.94	2.94	2.32	NA	NA
Heptane	142-82-5	NC	1.43	1.43	0.83	2.42	1,390	5,840
Hexane, N-	110-54-3	NC	2.92	4.05	1.23	6.49	2,430	10,200
Isopropylbenzene	98-82-8		ND	ND	2.18	ND	1,390	5,840
Methylene Chloride	75-09-2	CA	2.57	0.847	ND	1.24	2,090	8,760
2-Butanone (MEK)	78-93-3	NC	7.93	11.2	12.3	5.07	17,400	73,000
Naphthalene	91-20-3	CA	ND	ND	**5.97**	ND	2.75	12
2-Propanol (Isopropanol)	67-63-0	NC	5.92	ND	7.67	15	695	2,920
Propene (Propylene)	115-07-1	NC	ND	164	3.99	ND	10,400	43,800
Styrene	100-42-5	NC	ND	1.66	ND	ND	3,480	14,600
Tetrachloroethylene	127-18-4	CA	25.4	**468**	***37,100***	***74,000***	139	584
Toluene	108-88-3	NC	7.84	6.93	3.06	2.5	17,400	73,000
Trichloroethylene	79-01-6	NC	ND	ND	***399***	***427***	6.95	29.2
Trimethylbenzene, 1,2,4-	95-63-6	NC	2.05	1.03	4.49	ND	209	876
Trimethylpentane, 2,2,4-	540-84-1		5.05	ND	ND	ND	NA	NA
Xylene, M & P-	1330-20-7	NC	4.94	2.63	4.22	ND	348	1,460
Xylene, o-	95-47-6	NC	1.78	1.09	1.22	ND	348	1,460

NA = Not Available - No EPA Target
ND = Non Detect

Table 4 - Monitoring Well Construction Data

Forsey Cleaners

Monitor Well ID	Drilling Method	Total Depth (BTOC)	Date Installed	Diameter/Well Material	Top of Casing Elevation (RSB)	Screened Interval (ft)	Sand Pack (ft)	Depth to Water BTOC (ft)	GW Elevation RSB (ft)
MW-1	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.61	5 to 15	3 to 15	7.46	92.15
MW-2	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.74	5 to 15	3 to 15	8.17	91.57
MW-3	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.42	5 to 15	3 to 15	8.24	91.18
MW-4	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.25	5 to 15	3 to 15	8.07	91.18
MW-5	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.14	5 to 15	3 to 15	7.80	91.34
MW-6	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	99.44	5 to 15	3 to 15	8.33	91.11
MW-7	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	98.96	5 to 15	3 to 15	8.17	90.79
MW-8	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	99.18	5 to 15	3 to 15	8.44	90.74
MW-9	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	99.78	5 to 15	3 to 15	8.70	91.08
MW-10	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	96.52	5 to 15	3 to 15	6.36	90.16

BTOC = Below Top of Casing

RSB = Relative to Site Benchmark

EPA On-line Tools for Site Assessment Calculation

Hydraulic Gradient -- Magnitude and Direction

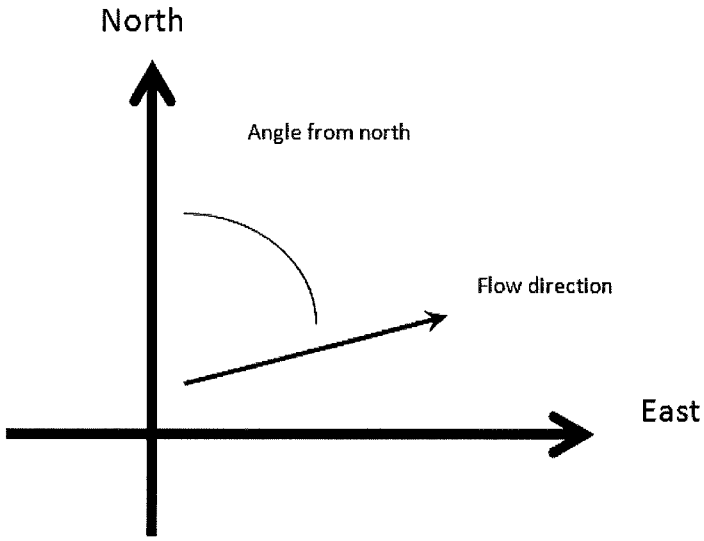
Gradient Calculation from fitting a plane to as many as thirty points

$a x_1 + b y_1 + c = h_1$
$a x_2 + b y_2 + c = h_2$
$a x_3 + b y_3 + c = h_3$
. . .
$a x_{30} + b y_{30} + c = h_{30}$

where (x_i,y_i) are the coordinates of the well and
h_i is the head

i = 1,2,3, ... , 30
The coefficients a, b, and c are calculated by a least-squares fitting of the the data to a plane

The gradient is calculated from the square root of $(a^2 + b^2)$ and the angle from the arctangent of a/b or b/a depending on the quadrant



Inputs

Example Data Set 1 | Example Data Set 2 | Calculate | Clear
Save Data | Recall Data | Go Back
Site Name: Forsey Cleaners
Date: 1/22/2021 | Current Date
Calculation basis: Head
Coordinates: ft

I.D.	x-coordinate	y-coordinate	head (ft)
1) MW-1	162	87	92.15
2) MW-2	121	101	91.57
3) MW-3	97	100	91.18
4) MW-4	91	76	91.18
5) MW-5	96	60	91.34
6) MW-6	96	120	91.11
7) MW-7	65	95	90.79
8) MW-8	68	119	90.74
9) MW-9	82	150	91.08
10) MW-10	38	139	90.16
11)			
12)			
13)			
14)			
15)			
16)			
17)			

18)				
19)				
20)				
21)				
22)				
23)				
24)				
25)				
26)				
27)				
28)				
29)				
30)				

Results

Number of Points Used in Calculation	10
Max. Difference Between Head Values	0.6066
Gradient Magnitude (i)	0.01492
Flow direction as degrees from North (positive y axis)	276.6
Coefficient of Determination (R^2)	0.977

WCMS
Last updated on 2/23/2016

APPENDIX B

AWAL LABORATORY RESULTS

American West
ANALYTICAL LABORATORIES

3440 South 700 West
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Joe DeGooyer
Applied Geotechnical
600 West Sandy Parkway
Sandy, UT 84070
TEL: (801) 566-6399

RE: Forsey's Cleaners Additional MW's / 1210017

Dear Joe DeGooyer: Lab Set ID: 2101481

American West Analytical Laboratories received sample(s) on 1/20/2021 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: Kyle F. Gross Digitally signed by Kyle F. Gross Date: 2021.01.26 13:58:07 -07'00'

Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forsey's Cleaners Additional MW's / 1210017
Lab Sample ID: 2101481-001A
Client Sample ID: MW-6 @ 7'
Collection Date: 1/20/2021 1100h
Received Date: 1/20/2021 1722h

Test Code: 8260D-S

Analytical Results VOAs AWAL List by GC/MS Method 8260D

Analyzed: 1/22/2021 855h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.48	< 2.48	
1,1,2,2-Tetrachloroethane	79-34-5	2.48	< 2.48	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.48	< 2.48	#
1,1,2-Trichloroethane	79-00-5	2.48	< 2.48	
1,1-Dichloroethane	75-34-3	2.48	< 2.48	1
1,1-Dichloroethene	75-35-4	2.48	< 2.48	
1,2,3-Trichlorobenzene	87-61-6	2.48	< 2.48	
1,2,4-Trichlorobenzene	120-82-1	2.48	< 2.48	
1,2-Dibromo-3-chloropropane	96-12-8	6.20	< 6.20	
1,2-Dibromoethane	106-93-4	2.48	< 2.48	
1,2-Dichlorobenzene	95-50-1	2.48	< 2.48	
1,2-Dichloroethane	107-06-2	2.48	< 2.48	1
1,2-Dichloropropane	78-87-5	2.48	< 2.48	
1,3-Dichlorobenzene	541-73-1	2.48	< 2.48	
1,4-Dichlorobenzene	106-46-7	2.48	< 2.48	
1,4-Dioxane	123-91-1	62.0	< 62.0	
2-Butanone	78-93-3	12.4	< 12.4	$
2-Hexanone	591-78-6	6.20	< 6.20	
4-Methyl-2-pentanone	108-10-1	6.20	< 6.20	
Acetone	67-64-1	12.4	< 12.4	
Benzene	71-43-2	2.48	< 2.48	1
Bromochloromethane	74-97-5	2.48	< 2.48	
Bromodichloromethane	75-27-4	2.48	< 2.48	1
Bromoform	75-25-2	2.48	< 2.48	
Bromomethane	74-83-9	6.20	< 6.20	
Carbon disulfide	75-15-0	2.48	< 2.48	
Carbon tetrachloride	56-23-5	2.48	< 2.48	
Chlorobenzene	108-90-7	2.48	< 2.48	
Chloroethane	75-00-3	2.48	< 2.48	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101481-001A
Client Sample ID: MW-6 @ 7'

Analyzed: 1/22/2021 855h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.48	< 2.48	[1]
Chloromethane	74-87-3	3.72	< 3.72	
cis-1,2-Dichloroethene	156-59-2	2.48	< 2.48	
cis-1,3-Dichloropropene	10061-01-5	2.48	< 2.48	
Cyclohexane	110-82-7	2.48	< 2.48	
Dibromochloromethane	124-48-1	2.48	< 2.48	
Dichlorodifluoromethane	75-71-8	2.48	< 2.48	#
Ethylbenzene	100-41-4	2.48	< 2.48	#
Isopropylbenzene	98-82-8	2.48	< 2.48	#
m,p-Xylene	179601-23-1	2.48	< 2.48	#
Methyl Acetate	79-20-9	6.20	< 6.20	
Methyl tert-butyl ether	1634-04-4	2.48	< 2.48	
Methylcyclohexane	108-87-2	2.48	< 2.48	#
Methylene chloride	75-09-2	6.20	< 6.20	
Naphthalene	91-20-3	2.48	< 2.48	
o-Xylene	95-47-6	2.48	< 2.48	
Styrene	100-42-5	2.48	< 2.48	
Tetrachloroethene	127-18-4	2.48	< 2.48	#
Toluene	108-88-3	2.48	< 2.48	
trans-1,2-Dichloroethene	156-60-5	2.48	< 2.48	
trans-1,3-Dichloropropene	10061-02-6	2.48	< 2.48	
Trichloroethene	79-01-6	2.48	< 2.48	
Trichlorofluoromethane	75-69-4	2.48	< 2.48	#
Vinyl chloride	75-01-4	1.24	< 1.24	

Surrogate (Units: µg/kg-dry)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	63.2	62.00	102	70-132	
Surr: 4-Bromofluorobenzene	460-00-4	63.9	62.00	103	70-125	
Surr: Dibromofluoromethane	1868-53-7	61.3	62.00	98.9	70-133	
Surr: Toluene-d8	2037-26-5	63.6	62.00	103	70-123	

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.
Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.
 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.
$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.

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ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forsey's Cleaners Additional MW's / 1210017
Lab Sample ID: 2101481-002A
Client Sample ID: MW-6 @ 11'
Collection Date: 1/20/2021 1110h
Received Date: 1/20/2021 1722h

Test Code: 8260D-S

Analytical Results VOAs AWAL List by GC/MS Method 8260D

Analyzed: 1/22/2021 1301h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.98 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.45	< 2.45	
1,1,2,2-Tetrachloroethane	79-34-5	2.45	< 2.45	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.45	< 2.45	#
1,1,2-Trichloroethane	79-00-5	2.45	< 2.45	
1,1-Dichloroethane	75-34-3	2.45	< 2.45	
1,1-Dichloroethene	75-35-4	2.45	< 2.45	
1,2,3-Trichlorobenzene	87-61-6	2.45	< 2.45	
1,2,4-Trichlorobenzene	120-82-1	2.45	< 2.45	
1,2-Dibromo-3-chloropropane	96-12-8	6.12	< 6.12	
1,2-Dibromoethane	106-93-4	2.45	< 2.45	
1,2-Dichlorobenzene	95-50-1	2.45	< 2.45	
1,2-Dichloroethane	107-06-2	2.45	< 2.45	
1,2-Dichloropropane	78-87-5	2.45	< 2.45	
1,3-Dichlorobenzene	541-73-1	2.45	< 2.45	
1,4-Dichlorobenzene	106-46-7	2.45	< 2.45	
1,4-Dioxane	123-91-1	61.2	< 61.2	
2-Butanone	78-93-3	12.2	< 12.2	$
2-Hexanone	591-78-6	6.12	< 6.12	
4-Methyl-2-pentanone	108-10-1	6.12	< 6.12	
Acetone	67-64-1	12.2	< 12.2	
Benzene	71-43-2	2.45	< 2.45	
Bromochloromethane	74-97-5	2.45	< 2.45	
Bromodichloromethane	75-27-4	2.45	< 2.45	
Bromoform	75-25-2	2.45	< 2.45	
Bromomethane	74-83-9	6.12	< 6.12	
Carbon disulfide	75-15-0	2.45	< 2.45	
Carbon tetrachloride	56-23-5	2.45	< 2.45	
Chlorobenzene	108-90-7	2.45	< 2.45	
Chloroethane	75-00-3	2.45	< 2.45	

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Kyle F. Gross
Laboratory Director

Jose Rocha
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101481-002A
Client Sample ID: MW-6 @ 11'

Analyzed: 1/22/2021 1301h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.98 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.45	< 2.45	
Chloromethane	74-87-3	3.67	< 3.67	
cis-1,2-Dichloroethene	156-59-2	2.45	< 2.45	
cis-1,3-Dichloropropene	10061-01-5	2.45	< 2.45	
Cyclohexane	110-82-7	2.45	< 2.45	
Dibromochloromethane	124-48-1	2.45	< 2.45	
Dichlorodifluoromethane	75-71-8	2.45	< 2.45	#
Ethylbenzene	100-41-4	2.45	< 2.45	#
Isopropylbenzene	98-82-8	2.45	< 2.45	#
m,p-Xylene	179601-23-1	2.45	< 2.45	#
Methyl Acetate	79-20-9	6.12	< 6.12	
Methyl tert-butyl ether	1634-04-4	2.45	< 2.45	
Methylcyclohexane	108-87-2	2.45	< 2.45	#
Methylene chloride	75-09-2	6.12	< 6.12	
Naphthalene	91-20-3	2.45	< 2.45	
o-Xylene	95-47-6	2.45	< 2.45	
Styrene	100-42-5	2.45	< 2.45	
Tetrachloroethene	127-18-4	2.45	< 2.45	#
Toluene	108-88-3	2.45	< 2.45	
trans-1,2-Dichloroethene	156-60-5	2.45	< 2.45	
trans-1,3-Dichloropropene	10061-02-6	2.45	< 2.45	
Trichloroethene	79-01-6	2.45	< 2.45	
Trichlorofluoromethane	75-69-4	2.45	< 2.45	#
Vinyl chloride	75-01-4	1.22	< 1.22	

Surrogate (Units: µg/kg-dry)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	63.1	61.22	103	70-132	
Surr: 4-Bromofluorobenzene	460-00-4	61.5	61.22	101	70-125	
Surr: Dibromofluoromethane	1868-53-7	59.2	61.22	96.7	70-133	
Surr: Toluene-d8	2037-26-5	61.0	61.22	99.7	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.
 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.
$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.

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ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forsey's Cleaners Additional MW's / 1210017
Lab Sample ID: 2101481-003A
Client Sample ID: MW-7 @ 7.5'
Collection Date: 1/20/2021 1157h
Received Date: 1/20/2021 1722h

Test Code: 8260D-S

Analytical Results VOAs AWAL List by GC/MS Method 8260D

Analyzed: 1/22/2021 1402h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.41	< 2.41	
1,1,2,2-Tetrachloroethane	79-34-5	2.41	< 2.41	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.41	< 2.41	#
1,1,2-Trichloroethane	79-00-5	2.41	< 2.41	
1,1-Dichloroethane	75-34-3	2.41	< 2.41	
1,1-Dichloroethene	75-35-4	2.41	< 2.41	
1,2,3-Trichlorobenzene	87-61-6	2.41	< 2.41	
1,2,4-Trichlorobenzene	120-82-1	2.41	< 2.41	
1,2-Dibromo-3-chloropropane	96-12-8	6.02	< 6.02	
1,2-Dibromoethane	106-93-4	2.41	< 2.41	
1,2-Dichlorobenzene	95-50-1	2.41	< 2.41	
1,2-Dichloroethane	107-06-2	2.41	< 2.41	
1,2-Dichloropropane	78-87-5	2.41	< 2.41	
1,3-Dichlorobenzene	541-73-1	2.41	< 2.41	
1,4-Dichlorobenzene	106-46-7	2.41	< 2.41	
1,4-Dioxane	123-91-1	60.2	< 60.2	
2-Butanone	78-93-3	12.0	< 12.0	$
2-Hexanone	591-78-6	6.02	< 6.02	
4-Methyl-2-pentanone	108-10-1	6.02	< 6.02	
Acetone	67-64-1	12.0	< 12.0	
Benzene	71-43-2	2.41	< 2.41	
Bromochloromethane	74-97-5	2.41	< 2.41	
Bromodichloromethane	75-27-4	2.41	< 2.41	
Bromoform	75-25-2	2.41	< 2.41	
Bromomethane	74-83-9	6.02	< 6.02	
Carbon disulfide	75-15-0	2.41	< 2.41	
Carbon tetrachloride	56-23-5	2.41	< 2.41	
Chlorobenzene	108-90-7	2.41	< 2.41	
Chloroethane	75-00-3	2.41	< 2.41	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101481-003A
Client Sample ID: MW-7 @ 7.5'

Analyzed: 1/22/2021 1402h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.41	< 2.41	
Chloromethane	74-87-3	3.61	< 3.61	
cis-1,2-Dichloroethene	156-59-2	2.41	< 2.41	
cis-1,3-Dichloropropene	10061-01-5	2.41	< 2.41	
Cyclohexane	110-82-7	2.41	< 2.41	
Dibromochloromethane	124-48-1	2.41	< 2.41	
Dichlorodifluoromethane	75-71-8	2.41	< 2.41	#
Ethylbenzene	100-41-4	2.41	< 2.41	#
Isopropylbenzene	98-82-8	2.41	< 2.41	#
m,p-Xylene	179601-23-1	2.41	< 2.41	#
Methyl Acetate	79-20-9	6.02	< 6.02	
Methyl tert-butyl ether	1634-04-4	2.41	< 2.41	
Methylcyclohexane	108-87-2	2.41	< 2.41	#
Methylene chloride	75-09-2	6.02	< 6.02	
Naphthalene	91-20-3	2.41	< 2.41	
o-Xylene	95-47-6	2.41	< 2.41	
Styrene	100-42-5	2.41	< 2.41	
Tetrachloroethene	127-18-4	2.41	**22.1**	*
Toluene	108-88-3	2.41	< 2.41	
trans-1,2-Dichloroethene	156-60-5	2.41	< 2.41	
trans-1,3-Dichloropropene	10061-02-6	2.41	< 2.41	
Trichloroethene	79-01-6	2.41	< 2.41	
Trichlorofluoromethane	75-69-4	2.41	< 2.41	#
Vinyl chloride	75-01-4	1.20	< 1.20	

Surrogate (Units: µg/kg-dry)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	62.1	60.16	103	70-132	
Surr: 4-Bromofluorobenzene	460-00-4	59.6	60.16	99.1	70-125	
Surr: Dibromofluoromethane	1868-53-7	58.1	60.16	96.5	70-133	
Surr: Toluene-d8	2037-26-5	60.8	60.16	101	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.

** - This compound exceeded (high) the control limit for the CCV. The compound concentration is estimated and may be biased high.*

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ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forsey's Cleaners Additional MW's / 1210017
Lab Sample ID: 2101481-004A
Client Sample ID: MW-8 @ 7.5'
Collection Date: 1/20/2021 1238h
Received Date: 1/20/2021 1722h

Test Code: 8260D-S

Analytical Results VOAs AWAL List by GC/MS Method 8260D

Analyzed: 1/22/2021 1422h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.43	< 2.43	
1,1,2,2-Tetrachloroethane	79-34-5	2.43	< 2.43	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.43	< 2.43	#
1,1,2-Trichloroethane	79-00-5	2.43	< 2.43	
1,1-Dichloroethane	75-34-3	2.43	< 2.43	
1,1-Dichloroethene	75-35-4	2.43	< 2.43	
1,2,3-Trichlorobenzene	87-61-6	2.43	< 2.43	
1,2,4-Trichlorobenzene	120-82-1	2.43	< 2.43	
1,2-Dibromo-3-chloropropane	96-12-8	6.08	< 6.08	
1,2-Dibromoethane	106-93-4	2.43	< 2.43	
1,2-Dichlorobenzene	95-50-1	2.43	< 2.43	
1,2-Dichloroethane	107-06-2	2.43	< 2.43	
1,2-Dichloropropane	78-87-5	2.43	< 2.43	
1,3-Dichlorobenzene	541-73-1	2.43	< 2.43	
1,4-Dichlorobenzene	106-46-7	2.43	< 2.43	
1,4-Dioxane	123-91-1	60.8	< 60.8	
2-Butanone	78-93-3	12.2	< 12.2	$
2-Hexanone	591-78-6	6.08	< 6.08	
4-Methyl-2-pentanone	108-10-1	6.08	< 6.08	
Acetone	67-64-1	12.2	< 12.2	
Benzene	71-43-2	2.43	< 2.43	
Bromochloromethane	74-97-5	2.43	< 2.43	
Bromodichloromethane	75-27-4	2.43	< 2.43	
Bromoform	75-25-2	2.43	< 2.43	
Bromomethane	74-83-9	6.08	< 6.08	
Carbon disulfide	75-15-0	2.43	< 2.43	
Carbon tetrachloride	56-23-5	2.43	< 2.43	
Chlorobenzene	108-90-7	2.43	< 2.43	
Chloroethane	75-00-3	2.43	< 2.43	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101481-004A
Client Sample ID: MW-8 @ 7.5'

Analyzed: 1/22/2021 1422h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.43	< 2.43	
Chloromethane	74-87-3	3.65	< 3.65	
cis-1,2-Dichloroethene	156-59-2	2.43	< 2.43	
cis-1,3-Dichloropropene	10061-01-5	2.43	< 2.43	
Cyclohexane	110-82-7	2.43	< 2.43	
Dibromochloromethane	124-48-1	2.43	< 2.43	
Dichlorodifluoromethane	75-71-8	2.43	< 2.43	#
Ethylbenzene	100-41-4	2.43	< 2.43	#
Isopropylbenzene	98-82-8	2.43	< 2.43	#
m,p-Xylene	179601-23-1	2.43	< 2.43	#
Methyl Acetate	79-20-9	6.08	< 6.08	
Methyl tert-butyl ether	1634-04-4	2.43	< 2.43	
Methylcyclohexane	108-87-2	2.43	< 2.43	#
Methylene chloride	75-09-2	6.08	< 6.08	
Naphthalene	91-20-3	2.43	< 2.43	
o-Xylene	95-47-6	2.43	< 2.43	
Styrene	100-42-5	2.43	< 2.43	
Tetrachloroethene	127-18-4	2.43	< 2.43	#
Toluene	108-88-3	2.43	< 2.43	
trans-1,2-Dichloroethene	156-60-5	2.43	< 2.43	
trans-1,3-Dichloropropene	10061-02-6	2.43	< 2.43	
Trichloroethene	79-01-6	2.43	< 2.43	
Trichlorofluoromethane	75-69-4	2.43	< 2.43	#
Vinyl chloride	75-01-4	1.22	< 1.22	

Surrogate (Units: µg/kg-dry)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	64.1	60.81	105	70-132	
Surr: 4-Bromofluorobenzene	460-00-4	60.7	60.81	99.9	70-125	
Surr: Dibromofluoromethane	1868-53-7	58.7	60.81	96.5	70-133	
Surr: Toluene-d8	2037-26-5	61.5	60.81	101	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.
 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.
$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.

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ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forsey's Cleaners Additional MW's / 1210017
Lab Sample ID: 2101481-005A
Client Sample ID: MW-9 @ 8.5'
Collection Date: 1/20/2021 1336h
Received Date: 1/20/2021 1722h

Test Code: 8260D-S

Analytical Results VOAs AWAL List by GC/MS Method 8260D

Analyzed: 1/22/2021 1443h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.98 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.37	< 2.37	
1,1,2,2-Tetrachloroethane	79-34-5	2.37	< 2.37	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.37	< 2.37	#
1,1,2-Trichloroethane	79-00-5	2.37	< 2.37	
1,1-Dichloroethane	75-34-3	2.37	< 2.37	
1,1-Dichloroethene	75-35-4	2.37	< 2.37	
1,2,3-Trichlorobenzene	87-61-6	2.37	< 2.37	
1,2,4-Trichlorobenzene	120-82-1	2.37	< 2.37	
1,2-Dibromo-3-chloropropane	96-12-8	5.93	< 5.93	
1,2-Dibromoethane	106-93-4	2.37	< 2.37	
1,2-Dichlorobenzene	95-50-1	2.37	< 2.37	
1,2-Dichloroethane	107-06-2	2.37	< 2.37	
1,2-Dichloropropane	78-87-5	2.37	< 2.37	
1,3-Dichlorobenzene	541-73-1	2.37	< 2.37	
1,4-Dichlorobenzene	106-46-7	2.37	< 2.37	
1,4-Dioxane	123-91-1	59.3	< 59.3	
2-Butanone	78-93-3	11.9	< 11.9	$
2-Hexanone	591-78-6	5.93	< 5.93	
4-Methyl-2-pentanone	108-10-1	5.93	< 5.93	
Acetone	67-64-1	11.9	< 11.9	
Benzene	71-43-2	2.37	< 2.37	
Bromochloromethane	74-97-5	2.37	< 2.37	
Bromodichloromethane	75-27-4	2.37	< 2.37	
Bromoform	75-25-2	2.37	< 2.37	
Bromomethane	74-83-9	5.93	< 5.93	
Carbon disulfide	75-15-0	2.37	< 2.37	
Carbon tetrachloride	56-23-5	2.37	< 2.37	
Chlorobenzene	108-90-7	2.37	< 2.37	
Chloroethane	75-00-3	2.37	< 2.37	

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Jose Rocha
QA Officer

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101481-005A
Client Sample ID: MW-9 @ 8.5'

Analyzed: 1/22/2021 1443h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 0.98 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.37	< 2.37	
Chloromethane	74-87-3	3.56	< 3.56	
cis-1,2-Dichloroethene	156-59-2	2.37	< 2.37	
cis-1,3-Dichloropropene	10061-01-5	2.37	< 2.37	
Cyclohexane	110-82-7	2.37	< 2.37	
Dibromochloromethane	124-48-1	2.37	< 2.37	
Dichlorodifluoromethane	75-71-8	2.37	< 2.37	#
Ethylbenzene	100-41-4	2.37	< 2.37	#
Isopropylbenzene	98-82-8	2.37	< 2.37	#
m,p-Xylene	179601-23-1	2.37	< 2.37	#
Methyl Acetate	79-20-9	5.93	< 5.93	
Methyl tert-butyl ether	1634-04-4	2.37	< 2.37	
Methylcyclohexane	108-87-2	2.37	< 2.37	#
Methylene chloride	75-09-2	5.93	< 5.93	
Naphthalene	91-20-3	2.37	< 2.37	
o-Xylene	95-47-6	2.37	< 2.37	
Styrene	100-42-5	2.37	< 2.37	
Tetrachloroethene	127-18-4	2.37	< 2.37	#
Toluene	108-88-3	2.37	< 2.37	
trans-1,2-Dichloroethene	156-60-5	2.37	< 2.37	
trans-1,3-Dichloropropene	10061-02-6	2.37	< 2.37	
Trichloroethene	79-01-6	2.37	< 2.37	
Trichlorofluoromethane	75-69-4	2.37	< 2.37	#
Vinyl chloride	75-01-4	1.19	< 1.19	

Surrogate (Units: µg/kg-dry)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	64.1	59.26	108	70-132	
Surr: 4-Bromofluorobenzene	460-00-4	61.3	59.26	104	70-125	
Surr: Dibromofluoromethane	1868-53-7	60.3	59.26	102	70-133	
Surr: Toluene-d8	2037-26-5	61.5	59.26	104	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.
 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.
$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.

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ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forsey's Cleaners Additional MW's / 1210017
Lab Sample ID: 2101481-006A
Client Sample ID: MW-10 @ 6.5'
Collection Date: 1/20/2021 1430h
Received Date: 1/20/2021 1722h

Test Code: 8260D-S

Analytical Results VOAs AWAL List by GC/MS Method 8260D

Analyzed: 1/25/2021 1539h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.46	< 2.46	
1,1,2,2-Tetrachloroethane	79-34-5	2.46	< 2.46	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.46	< 2.46	
1,1,2-Trichloroethane	79-00-5	2.46	< 2.46	
1,1-Dichloroethane	75-34-3	2.46	< 2.46	
1,1-Dichloroethene	75-35-4	2.46	< 2.46	
1,2,3-Trichlorobenzene	87-61-6	2.46	< 2.46	
1,2,4-Trichlorobenzene	120-82-1	2.46	< 2.46	
1,2-Dibromo-3-chloropropane	96-12-8	6.15	< 6.15	
1,2-Dibromoethane	106-93-4	2.46	< 2.46	
1,2-Dichlorobenzene	95-50-1	2.46	< 2.46	
1,2-Dichloroethane	107-06-2	2.46	< 2.46	
1,2-Dichloropropane	78-87-5	2.46	< 2.46	
1,3-Dichlorobenzene	541-73-1	2.46	< 2.46	
1,4-Dichlorobenzene	106-46-7	2.46	< 2.46	
1,4-Dioxane	123-91-1	61.5	< 61.5	
2-Butanone	78-93-3	12.3	< 12.3	$
2-Hexanone	591-78-6	6.15	< 6.15	
4-Methyl-2-pentanone	108-10-1	6.15	< 6.15	
Acetone	67-64-1	12.3	< 12.3	B
Benzene	71-43-2	2.46	< 2.46	
Bromochloromethane	74-97-5	2.46	< 2.46	
Bromodichloromethane	75-27-4	2.46	< 2.46	
Bromoform	75-25-2	2.46	< 2.46	
Bromomethane	74-83-9	6.15	< 6.15	
Carbon disulfide	75-15-0	2.46	< 2.46	#
Carbon tetrachloride	56-23-5	2.46	< 2.46	
Chlorobenzene	108-90-7	2.46	< 2.46	
Chloroethane	75-00-3	2.46	< 2.46	

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Jose Rocha
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101481-006A
Client Sample ID: MW-10 @ 6.5'

Analyzed: 1/25/2021 1539h **Extracted:**
Units: µg/kg-dry **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.46	< 2.46	
Chloromethane	74-87-3	3.69	< 3.69	
cis-1,2-Dichloroethene	156-59-2	2.46	< 2.46	
cis-1,3-Dichloropropene	10061-01-5	2.46	< 2.46	
Cyclohexane	110-82-7	2.46	< 2.46	#
Dibromochloromethane	124-48-1	2.46	< 2.46	
Dichlorodifluoromethane	75-71-8	2.46	< 2.46	#
Ethylbenzene	100-41-4	2.46	< 2.46	
Isopropylbenzene	98-82-8	2.46	< 2.46	
m,p-Xylene	179601-23-1	2.46	< 2.46	
Methyl Acetate	79-20-9	6.15	< 6.15	
Methyl tert-butyl ether	1634-04-4	2.46	< 2.46	
Methylcyclohexane	108-87-2	2.46	< 2.46	#
Methylene chloride	75-09-2	6.15	**6.81**	
Naphthalene	91-20-3	2.46	< 2.46	
o-Xylene	95-47-6	2.46	< 2.46	
Styrene	100-42-5	2.46	< 2.46	
Tetrachloroethene	127-18-4	2.46	**13.8**	
Toluene	108-88-3	2.46	**4.96**	
trans-1,2-Dichloroethene	156-60-5	2.46	< 2.46	
trans-1,3-Dichloropropene	10061-02-6	2.46	< 2.46	
Trichloroethene	79-01-6	2.46	< 2.46	
Trichlorofluoromethane	75-69-4	2.46	< 2.46	
Vinyl chloride	75-01-4	1.23	< 1.23	

Surrogate (Units: µg/kg-dry)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	60.5	61.54	98.2	70-132	
Surr: 4-Bromofluorobenzene	460-00-4	66.7	61.54	108	70-125	
Surr: Dibromofluoromethane	1868-53-7	52.6	61.54	85.6	70-133	
Surr: Toluene-d8	2037-26-5	63.3	61.54	103	70-123	

B - Analyte(s) were observed above the reporting limit in the method blank. The method blank was acceptable, as any associated samples do not have results above the PQL.

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-3 012221A Date Analyzed: 01/22/2021 814h													
Test Code: 8260D-S													
1,1,1-Trichloroethane	17.6	µg/kg	SW8260D	0.231	2.00	20.00	0	87.8	64 - 137				
1,1,2,2-Tetrachloroethane	19.7	µg/kg	SW8260D	0.370	2.00	20.00	0	98.4	74 - 150				
1,1,2-Trichloro-1,2,2-trifluoroethane	18.7	µg/kg	SW8260D	0.934	2.00	20.00	0	93.5	37 - 170				
1,1,2-Trichloroethane	18.9	µg/kg	SW8260D	0.196	2.00	20.00	0	94.6	80 - 117				
1,1-Dichloroethane	17.0	µg/kg	SW8260D	0.131	2.00	20.00	0	84.8	70 - 175				
1,1-Dichloroethene	15.9	µg/kg	SW8260D	0.675	2.00	20.00	0	79.6	42 - 210				
1,2,3-Trichlorobenzene	16.7	µg/kg	SW8260D	1.03	2.00	20.00	0	83.7	36 - 135				
1,2,4-Trichlorobenzene	15.7	µg/kg	SW8260D	1.18	2.00	20.00	0	78.6	21 - 140				
1,2-Dibromo-3-chloropropane	19.2	µg/kg	SW8260D	0.785	5.00	20.00	0	95.8	62 - 132				
1,2-Dibromoethane	18.6	µg/kg	SW8260D	0.306	2.00	20.00	0	93.1	76 - 125				
1,2-Dichlorobenzene	17.6	µg/kg	SW8260D	0.678	2.00	20.00	0	87.9	56 - 125				
1,2-Dichloroethane	18.0	µg/kg	SW8260D	0.118	2.00	20.00	0	90.1	79 - 135				
1,2-Dichloropropane	17.4	µg/kg	SW8260D	0.820	2.00	20.00	0	86.8	68 - 133				
1,3-Dichlorobenzene	17.2	µg/kg	SW8260D	1.03	2.00	20.00	0	86.0	45 - 135				
1,4-Dichlorobenzene	17.4	µg/kg	SW8260D	0.850	2.00	20.00	0	86.9	43 - 135				
1,4-Dioxane	178	µg/kg	SW8260D	27.7	50.0	200.0	0	88.8	58 - 146				
2-Butanone	24.3	µg/kg	SW8260D	1.31	10.0	20.00	0	121	59 - 184				
2-Hexanone	20.3	µg/kg	SW8260D	0.836	5.00	20.00	0	102	61 - 192				
4-Methyl-2-pentanone	17.9	µg/kg	SW8260D	0.534	5.00	20.00	0	89.6	58 - 145				
Acetone	22.9	µg/kg	SW8260D	8.29	10.0	20.00	0	115	17 - 296				
Benzene	17.0	µg/kg	SW8260D	0.360	2.00	20.00	0	84.8	70 - 140				
Bromochloromethane	16.7	µg/kg	SW8260D	0.239	2.00	20.00	0	83.7	69 - 123				
Bromodichloromethane	16.8	µg/kg	SW8260D	0.983	2.00	20.00	0	84.1	76 - 140				
Bromoform	18.4	µg/kg	SW8260D	0.319	2.00	20.00	0	92.2	71 - 175				
Bromomethane	16.1	µg/kg	SW8260D	2.61	5.00	20.00	0	80.7	10 - 168				
Carbon disulfide	16.6	µg/kg	SW8260D	0.247	2.00	20.00	0	83.2	31 - 174				
Carbon tetrachloride	16.7	µg/kg	SW8260D	0.419	2.00	20.00	0	83.6	58 - 145				
Chlorobenzene	16.9	µg/kg	SW8260D	0.544	2.00	20.00	0	84.4	61 - 125				

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Kyle F. Gross
Laboratory Director

Jose Rocha
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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-3 012221A Date Analyzed: 01/22/2021 814h													
Test Code: 8260D-S													
Chloroethane	18.8	µg/kg	SW8260D	1.24	2.00	20.00	0	93.8	10 - 161				
Chloroform	16.4	µg/kg	SW8260D	0.218	2.00	20.00	0	81.8	74 - 135				
Chloromethane	14.7	µg/kg	SW8260D	2.26	3.00	20.00	0	73.6	30 - 149				
cis-1,2-Dichloroethene	16.8	µg/kg	SW8260D	0.329	2.00	20.00	0	83.8	63 - 142				
cis-1,3-Dichloropropene	16.9	µg/kg	SW8260D	0.359	2.00	20.00	0	84.4	67 - 127				
Cyclohexane	16.5	µg/kg	SW8260D	0.800	2.00	20.00	0	82.6	44 - 162				
Dibromochloromethane	17.7	µg/kg	SW8260D	0.136	2.00	20.00	0	88.6	76 - 121				
Dichlorodifluoromethane	15.2	µg/kg	SW8260D	1.39	2.00	20.00	0	76.1	20 - 130				
Ethylbenzene	17.2	µg/kg	SW8260D	0.675	2.00	20.00	0	86.2	52 - 140				
Isopropylbenzene	17.5	µg/kg	SW8260D	1.85	2.00	20.00	0	87.6	50 - 140				
m,p-Xylene	35.3	µg/kg	SW8260D	0.942	2.00	40.00	0	88.2	44 - 142				
Methyl Acetate	33.1	µg/kg	SW8260D	2.21	5.00	20.00	0	166	70 - 240				
Methyl tert-butyl ether	17.9	µg/kg	SW8260D	0.210	2.00	20.00	0	89.3	60 - 128				
Methylcyclohexane	15.9	µg/kg	SW8260D	1.46	2.00	20.00	0	79.6	41 - 171				
Methylene chloride	12.7	µg/kg	SW8260D	1.81	5.00	20.00	0	63.5	10 - 128				
Naphthalene	17.3	µg/kg	SW8260D	1.06	2.00	20.00	0	86.6	43 - 135				
o-Xylene	17.0	µg/kg	SW8260D	0.696	2.00	20.00	0	85.0	44 - 142				
Styrene	17.8	µg/kg	SW8260D	0.739	2.00	20.00	0	89.1	56 - 140				
Tetrachloroethene	18.3	µg/kg	SW8260D	0.533	2.00	20.00	0	91.3	40 - 200				
Toluene	17.2	µg/kg	SW8260D	0.612	2.00	20.00	0	86.2	54 - 132				
trans-1,2-Dichloroethene	15.6	µg/kg	SW8260D	0.261	2.00	20.00	0	78.0	57 - 175				
trans-1,3-Dichloropropene	17.5	µg/kg	SW8260D	0.341	2.00	20.00	0	87.5	66 - 117				
Trichloroethene	16.5	µg/kg	SW8260D	0.390	2.00	20.00	0	82.6	61 - 143				
Trichlorofluoromethane	17.4	µg/kg	SW8260D	0.236	2.00	20.00	0	87.1	10 - 140				
Vinyl chloride	16.4	µg/kg	SW8260D	0.228	1.00	20.00	0	82.2	47 - 135				
Surr: 1,2-Dichloroethane-d4	49.4	µg/kg	SW8260D			50.00		98.9	70 - 132				
Surr: 4-Bromofluorobenzene	51.0	µg/kg	SW8260D			50.00		102	70 - 125				
Surr: Dibromofluoromethane	48.9	µg/kg	SW8260D			50.00		97.7	70 - 133				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-3 012221A Date Analyzed: 01/22/2021 814h													
Test Code: 8260D-S													
Surr: Toluene-d8	51.6	µg/kg	SW8260D			50.00		103	70 - 123				
Lab Sample ID: LCS VOC-3 012521A Date Analyzed: 01/25/2021 652h													
Test Code: 8260D-S													
1,1,1-Trichloroethane	20.2	µg/kg	SW8260D	0.231	2.00	20.00	0	101	64 - 137				
1,1,2,2-Tetrachloroethane	20.9	µg/kg	SW8260D	0.370	2.00	20.00	0	105	74 - 150				
1,1,2-Trichloro-1,2,2-trifluoroethane	18.9	µg/kg	SW8260D	0.934	2.00	20.00	0	94.7	37 - 170				
1,1,2-Trichloroethane	20.5	µg/kg	SW8260D	0.196	2.00	20.00	0	103	80 - 117				
1,1-Dichloroethane	19.3	µg/kg	SW8260D	0.131	2.00	20.00	0	96.7	70 - 175				
1,1-Dichloroethene	19.1	µg/kg	SW8260D	0.675	2.00	20.00	0	95.3	42 - 210				
1,2,3-Trichlorobenzene	20.9	µg/kg	SW8260D	1.03	2.00	20.00	0	104	36 - 135				
1,2,4-Trichlorobenzene	20.8	µg/kg	SW8260D	1.18	2.00	20.00	0	104	21 - 140				
1,2-Dibromo-3-chloropropane	20.0	µg/kg	SW8260D	0.785	5.00	20.00	0	100	62 - 132				
1,2-Dibromoethane	20.4	µg/kg	SW8260D	0.306	2.00	20.00	0	102	76 - 125				
1,2-Dichlorobenzene	20.2	µg/kg	SW8260D	0.678	2.00	20.00	0	101	56 - 125				
1,2-Dichloroethane	19.3	µg/kg	SW8260D	0.118	2.00	20.00	0	96.6	79 - 135				
1,2-Dichloropropane	19.3	µg/kg	SW8260D	0.820	2.00	20.00	0	96.7	68 - 133				
1,3-Dichlorobenzene	21.1	µg/kg	SW8260D	1.03	2.00	20.00	0	105	45 - 135				
1,4-Dichlorobenzene	20.7	µg/kg	SW8260D	0.850	2.00	20.00	0	104	43 - 135				
1,4-Dioxane	159	µg/kg	SW8260D	27.7	50.0	200.0	0	79.6	58 - 146				
2-Butanone	26.4	µg/kg	SW8260D	1.31	10.0	20.00	0	132	59 - 184				
2-Hexanone	30.8	µg/kg	SW8260D	0.836	5.00	20.00	0	154	61 - 192				
4-Methyl-2-pentanone	17.6	µg/kg	SW8260D	0.534	5.00	20.00	0	88.0	58 - 145				
Acetone	39.1	µg/kg	SW8260D	8.29	10.0	20.00	0	195	17 - 296				
Benzene	19.7	µg/kg	SW8260D	0.360	2.00	20.00	0	98.6	70 - 140				
Bromochloromethane	18.2	µg/kg	SW8260D	0.239	2.00	20.00	0	91.0	69 - 123				
Bromodichloromethane	18.9	µg/kg	SW8260D	0.983	2.00	20.00	0	94.6	76 - 140				
Bromoform	20.2	µg/kg	SW8260D	0.319	2.00	20.00	0	101	71 - 175				

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QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-3 012521A Date Analyzed: 01/25/2021 652h													
Test Code: 8260D-S													
Bromomethane	17.2	µg/kg	SW8260D	2.61	5.00	20.00	0	86.2	10 - 168				
Carbon disulfide	19.2	µg/kg	SW8260D	0.247	2.00	20.00	0	96.0	31 - 174				
Carbon tetrachloride	19.3	µg/kg	SW8260D	0.419	2.00	20.00	0	96.7	58 - 145				
Chlorobenzene	20.0	µg/kg	SW8260D	0.544	2.00	20.00	0	100	61 - 125				
Chloroethane	18.4	µg/kg	SW8260D	1.24	2.00	20.00	0	92.1	10 - 161				
Chloroform	18.1	µg/kg	SW8260D	0.218	2.00	20.00	0	90.6	74 - 135				
Chloromethane	17.5	µg/kg	SW8260D	2.26	3.00	20.00	0	87.6	30 - 149				
cis-1,2-Dichloroethene	18.8	µg/kg	SW8260D	0.329	2.00	20.00	0	93.9	63 - 142				
cis-1,3-Dichloropropene	19.7	µg/kg	SW8260D	0.359	2.00	20.00	0	98.3	67 - 127				
Cyclohexane	16.6	µg/kg	SW8260D	0.800	2.00	20.00	0	82.9	44 - 162				
Dibromochloromethane	19.4	µg/kg	SW8260D	0.136	2.00	20.00	0	97.0	76 - 121				
Dichlorodifluoromethane	21.6	µg/kg	SW8260D	1.39	2.00	20.00	0	108	20 - 130				
Ethylbenzene	21.2	µg/kg	SW8260D	0.675	2.00	20.00	0	106	52 - 140				
Isopropylbenzene	21.3	µg/kg	SW8260D	1.85	2.00	20.00	0	107	50 - 140				
m,p-Xylene	43.7	µg/kg	SW8260D	0.942	2.00	40.00	0	109	44 - 142				
Methyl Acetate	24.7	µg/kg	SW8260D	2.21	5.00	20.00	0	124	70 - 240				
Methyl tert-butyl ether	17.5	µg/kg	SW8260D	0.210	2.00	20.00	0	87.4	60 - 128				
Methylcyclohexane	18.1	µg/kg	SW8260D	1.46	2.00	20.00	0	90.3	41 - 171				
Methylene chloride	14.5	µg/kg	SW8260D	1.81	5.00	20.00	0	72.6	10 - 128				
Naphthalene	20.1	µg/kg	SW8260D	1.06	2.00	20.00	0	101	43 - 135				
o-Xylene	20.2	µg/kg	SW8260D	0.696	2.00	20.00	0	101	44 - 142				
Styrene	20.7	µg/kg	SW8260D	0.739	2.00	20.00	0	104	56 - 140				
Tetrachloroethene	22.2	µg/kg	SW8260D	0.533	2.00	20.00	0	111	40 - 200				
Toluene	20.4	µg/kg	SW8260D	0.612	2.00	20.00	0	102	54 - 132				
trans-1,2-Dichloroethene	18.3	µg/kg	SW8260D	0.261	2.00	20.00	0	91.5	57 - 175				
trans-1,3-Dichloropropene	19.8	µg/kg	SW8260D	0.341	2.00	20.00	0	99.2	66 - 117				
Trichloroethene	20.1	µg/kg	SW8260D	0.390	2.00	20.00	0	100	61 - 143				
Trichlorofluoromethane	19.9	µg/kg	SW8260D	0.236	2.00	20.00	0	99.7	10 - 140				

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Kyle F. Gross
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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-3 012521A Date Analyzed: 01/25/2021 652h													
Test Code: 8260D-S													
Vinyl chloride	18.8	µg/kg	SW8260D	0.228	1.00	20.00	0	93.8	47 - 135				
Surr: 1,2-Dichloroethane-d4	50.8	µg/kg	SW8260D			50.00		102	70 - 132				
Surr: 4-Bromofluorobenzene	53.8	µg/kg	SW8260D			50.00		108	70 - 125				
Surr: Dibromofluoromethane	48.6	µg/kg	SW8260D			50.00		97.3	70 - 133				
Surr: Toluene-d8	54.5	µg/kg	SW8260D			50.00		109	70 - 123				

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-3 012221A Date Analyzed: 01/22/2021 834h													
Test Code: 8260D-S													
1,1,1-Trichloroethane	< 2.00	µg/kg	SW8260D	0.231	2.00								
1,1,2,2-Tetrachloroethane	< 2.00	µg/kg	SW8260D	0.370	2.00								
1,1,2-Trichloro-1,2,2-trifluoroethane	< 2.00	µg/kg	SW8260D	0.934	2.00								
1,1,2-Trichloroethane	< 2.00	µg/kg	SW8260D	0.196	2.00								
1,1-Dichloroethane	< 2.00	µg/kg	SW8260D	0.131	2.00								
1,1-Dichloroethene	< 2.00	µg/kg	SW8260D	0.675	2.00								
1,2,3-Trichlorobenzene	< 2.00	µg/kg	SW8260D	1.03	2.00								
1,2,4-Trichlorobenzene	< 2.00	µg/kg	SW8260D	1.18	2.00								
1,2-Dibromo-3-chloropropane	< 5.00	µg/kg	SW8260D	0.785	5.00								
1,2-Dibromoethane	< 2.00	µg/kg	SW8260D	0.306	2.00								
1,2-Dichlorobenzene	< 2.00	µg/kg	SW8260D	0.678	2.00								
1,2-Dichloroethane	< 2.00	µg/kg	SW8260D	0.118	2.00								
1,2-Dichloropropane	< 2.00	µg/kg	SW8260D	0.820	2.00								
1,3-Dichlorobenzene	< 2.00	µg/kg	SW8260D	1.03	2.00								
1,4-Dichlorobenzene	< 2.00	µg/kg	SW8260D	0.850	2.00								
1,4-Dioxane	< 50.0	µg/kg	SW8260D	27.7	50.0								
2-Butanone	< 10.0	µg/kg	SW8260D	1.31	10.0								
2-Hexanone	< 5.00	µg/kg	SW8260D	0.836	5.00								
4-Methyl-2-pentanone	< 5.00	µg/kg	SW8260D	0.534	5.00								
Acetone	< 10.0	µg/kg	SW8260D	8.29	10.0								
Benzene	< 2.00	µg/kg	SW8260D	0.360	2.00								
Bromochloromethane	< 2.00	µg/kg	SW8260D	0.239	2.00								
Bromodichloromethane	< 2.00	µg/kg	SW8260D	0.983	2.00								
Bromoform	< 2.00	µg/kg	SW8260D	0.319	2.00								
Bromomethane	< 5.00	µg/kg	SW8260D	2.61	5.00								
Carbon disulfide	< 2.00	µg/kg	SW8260D	0.247	2.00								
Carbon tetrachloride	< 2.00	µg/kg	SW8260D	0.419	2.00								
Chlorobenzene	< 2.00	µg/kg	SW8260D	0.544	2.00								

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-3 012221A Date Analyzed: 01/22/2021 834h													
Test Code: 8260D-S													
Chloroethane	< 2.00	µg/kg	SW8260D	1.24	2.00								
Chloroform	< 2.00	µg/kg	SW8260D	0.218	2.00								
Chloromethane	< 3.00	µg/kg	SW8260D	2.26	3.00								
cis-1,2-Dichloroethene	< 2.00	µg/kg	SW8260D	0.329	2.00								
cis-1,3-Dichloropropene	< 2.00	µg/kg	SW8260D	0.359	2.00								
Cyclohexane	< 2.00	µg/kg	SW8260D	0.800	2.00								
Dibromochloromethane	< 2.00	µg/kg	SW8260D	0.136	2.00								
Dichlorodifluoromethane	< 2.00	µg/kg	SW8260D	1.39	2.00								
Ethylbenzene	< 2.00	µg/kg	SW8260D	0.675	2.00								
Isopropylbenzene	< 2.00	µg/kg	SW8260D	1.85	2.00								
m,p-Xylene	< 2.00	µg/kg	SW8260D	0.942	2.00								
Methyl Acetate	< 5.00	µg/kg	SW8260D	2.21	5.00								
Methyl tert-butyl ether	< 2.00	µg/kg	SW8260D	0.210	2.00								
Methylcyclohexane	< 2.00	µg/kg	SW8260D	1.46	2.00								
Methylene chloride	< 5.00	µg/kg	SW8260D	1.81	5.00								
Naphthalene	< 2.00	µg/kg	SW8260D	1.06	2.00								
o-Xylene	< 2.00	µg/kg	SW8260D	0.696	2.00								
Styrene	< 2.00	µg/kg	SW8260D	0.739	2.00								
Tetrachloroethene	< 2.00	µg/kg	SW8260D	0.533	2.00								
Toluene	< 2.00	µg/kg	SW8260D	0.612	2.00								
trans-1,2-Dichloroethene	< 2.00	µg/kg	SW8260D	0.261	2.00								
trans-1,3-Dichloropropene	< 2.00	µg/kg	SW8260D	0.341	2.00								
Trichloroethene	< 2.00	µg/kg	SW8260D	0.390	2.00								
Trichlorofluoromethane	< 2.00	µg/kg	SW8260D	0.236	2.00								
Vinyl chloride	< 1.00	µg/kg	SW8260D	0.228	1.00								
Surr: 1,2-Dichloroethane-d4	49.0	µg/kg	SW8260D			50.00		98.0	70 - 132				
Surr: 4-Bromofluorobenzene	50.2	µg/kg	SW8260D			50.00		100	68 - 125				
Surr: Dibromofluoromethane	48.1	µg/kg	SW8260D			50.00		96.2	70 - 133				

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Kyle F. Gross
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Jose Rocha
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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-3 012221A Date Analyzed: 01/22/2021 834h													
Test Code: 8260D-S													
Surr: Toluene-d8	50.6	µg/kg	SW8260D			50.00		101	61 - 123				
Lab Sample ID: MB VOC-3 0125521A Date Analyzed: 01/25/2021 712h													
Test Code: 8260D-S													
1,1,1-Trichloroethane	< 2.00	µg/kg	SW8260D	0.231	2.00								
1,1,2,2-Tetrachloroethane	< 2.00	µg/kg	SW8260D	0.370	2.00								
1,1,2-Trichloro-1,2,2-trifluoroethane	< 2.00	µg/kg	SW8260D	0.934	2.00								
1,1,2-Trichloroethane	< 2.00	µg/kg	SW8260D	0.196	2.00								
1,1-Dichloroethane	< 2.00	µg/kg	SW8260D	0.131	2.00								
1,1-Dichloroethene	< 2.00	µg/kg	SW8260D	0.675	2.00								
1,2,3-Trichlorobenzene	< 2.00	µg/kg	SW8260D	1.03	2.00								
1,2,4-Trichlorobenzene	< 2.00	µg/kg	SW8260D	1.18	2.00								
1,2-Dibromo-3-chloropropane	< 5.00	µg/kg	SW8260D	0.785	5.00								
1,2-Dibromoethane	< 2.00	µg/kg	SW8260D	0.306	2.00								
1,2-Dichlorobenzene	< 2.00	µg/kg	SW8260D	0.678	2.00								
1,2-Dichloroethane	< 2.00	µg/kg	SW8260D	0.118	2.00								
1,2-Dichloropropane	< 2.00	µg/kg	SW8260D	0.820	2.00								
1,3-Dichlorobenzene	< 2.00	µg/kg	SW8260D	1.03	2.00								
1,4-Dichlorobenzene	< 2.00	µg/kg	SW8260D	0.850	2.00								
1,4-Dioxane	< 50.0	µg/kg	SW8260D	27.7	50.0								
2-Butanone	< 10.0	µg/kg	SW8260D	1.31	10.0								
2-Hexanone	< 5.00	µg/kg	SW8260D	0.836	5.00								
4-Methyl-2-pentanone	< 5.00	µg/kg	SW8260D	0.534	5.00								
Acetone	12.7	µg/kg	SW8260D	8.29	10.0								B
Benzene	< 2.00	µg/kg	SW8260D	0.360	2.00								
Bromochloromethane	< 2.00	µg/kg	SW8260D	0.239	2.00								
Bromodichloromethane	< 2.00	µg/kg	SW8260D	0.983	2.00								
Bromoform	< 2.00	µg/kg	SW8260D	0.319	2.00								

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-3 0125521A Date Analyzed: 01/25/2021 712h													
Test Code: 8260D-S													
Bromomethane	< 5.00	µg/kg	SW8260D	2.61	5.00								
Carbon disulfide	< 2.00	µg/kg	SW8260D	0.247	2.00								
Carbon tetrachloride	< 2.00	µg/kg	SW8260D	0.419	2.00								
Chlorobenzene	< 2.00	µg/kg	SW8260D	0.544	2.00								
Chloroethane	< 2.00	µg/kg	SW8260D	1.24	2.00								
Chloroform	< 2.00	µg/kg	SW8260D	0.218	2.00								
Chloromethane	< 3.00	µg/kg	SW8260D	2.26	3.00								
cis-1,2-Dichloroethene	< 2.00	µg/kg	SW8260D	0.329	2.00								
cis-1,3-Dichloropropene	< 2.00	µg/kg	SW8260D	0.359	2.00								
Cyclohexane	< 2.00	µg/kg	SW8260D	0.800	2.00								
Dibromochloromethane	< 2.00	µg/kg	SW8260D	0.136	2.00								
Dichlorodifluoromethane	< 2.00	µg/kg	SW8260D	1.39	2.00								
Ethylbenzene	< 2.00	µg/kg	SW8260D	0.675	2.00								
Isopropylbenzene	< 2.00	µg/kg	SW8260D	1.85	2.00								
m,p-Xylene	< 2.00	µg/kg	SW8260D	0.942	2.00								
Methyl Acetate	< 5.00	µg/kg	SW8260D	2.21	5.00								
Methyl tert-butyl ether	< 2.00	µg/kg	SW8260D	0.210	2.00								
Methylcyclohexane	< 2.00	µg/kg	SW8260D	1.46	2.00								
Methylene chloride	< 5.00	µg/kg	SW8260D	1.81	5.00								
Naphthalene	< 2.00	µg/kg	SW8260D	1.06	2.00								
o-Xylene	< 2.00	µg/kg	SW8260D	0.696	2.00								
Styrene	< 2.00	µg/kg	SW8260D	0.739	2.00								
Tetrachloroethene	< 2.00	µg/kg	SW8260D	0.533	2.00								
Toluene	< 2.00	µg/kg	SW8260D	0.612	2.00								
trans-1,2-Dichloroethene	< 2.00	µg/kg	SW8260D	0.261	2.00								
trans-1,3-Dichloropropene	< 2.00	µg/kg	SW8260D	0.341	2.00								
Trichloroethene	< 2.00	µg/kg	SW8260D	0.390	2.00								
Trichlorofluoromethane	< 2.00	µg/kg	SW8260D	0.236	2.00								

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-3 0125521A Date Analyzed: 01/25/2021 712h													
Test Code: 8260D-S													
Vinyl chloride	< 1.00	µg/kg	SW8260D	0.228	1.00								
Surr: 1,2-Dichloroethane-d4	54.2	µg/kg	SW8260D			50.00		108	70 - 132				
Surr: 4-Bromofluorobenzene	54.7	µg/kg	SW8260D			50.00		109	68 - 125				
Surr: Dibromofluoromethane	50.2	µg/kg	SW8260D			50.00		100	70 - 133				
Surr: Toluene-d8	55.1	µg/kg	SW8260D			50.00		110	61 - 123				

B - Analyte(s) were observed above the reporting limit in the method blank. The method blank was acceptable, as any associated samples do not have results above the reporting limit/PQL.

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101276-002CMS Date Analyzed: 01/25/2021 914h													
Test Code: 8260D-S													
1,1,1-Trichloroethane	17.0	µg/kg-dry	SW8260D	0.251	2.18	21.76	0	78.1	64 - 137				
1,1,2,2-Tetrachloroethane	20.0	µg/kg-dry	SW8260D	0.403	2.18	21.76	0	92.0	74 - 150				
1,1,2-Trichloro-1,2,2-trifluoroethane	15.8	µg/kg-dry	SW8260D	1.02	2.18	21.76	0	72.7	37 - 170				
1,1,2-Trichloroethane	21.1	µg/kg-dry	SW8260D	0.213	2.18	21.76	0	96.8	80 - 117				
1,1-Dichloroethane	16.7	µg/kg-dry	SW8260D	0.143	2.18	21.76	0	76.8	70 - 175				
1,1-Dichloroethene	16.0	µg/kg-dry	SW8260D	0.734	2.18	21.76	0	73.6	42 - 210				
1,2,3-Trichlorobenzene	20.0	µg/kg-dry	SW8260D	1.12	2.18	21.76	0	92.0	36 - 135				
1,2,4-Trichlorobenzene	19.9	µg/kg-dry	SW8260D	1.28	2.18	21.76	0	91.7	21 - 140				
1,2-Dibromo-3-chloropropane	19.8	µg/kg-dry	SW8260D	0.854	5.44	21.76	0	90.9	62 - 132				
1,2-Dibromoethane	21.0	µg/kg-dry	SW8260D	0.333	2.18	21.76	0	96.5	76 - 125				
1,2-Dichlorobenzene	19.5	µg/kg-dry	SW8260D	0.738	2.18	21.76	0	89.8	56 - 125				
1,2-Dichloroethane	19.5	µg/kg-dry	SW8260D	0.128	2.18	21.76	0	89.7	79 - 135				
1,2-Dichloropropane	18.9	µg/kg-dry	SW8260D	0.892	2.18	21.76	0	86.9	68 - 133				
1,3-Dichlorobenzene	19.6	µg/kg-dry	SW8260D	1.12	2.18	21.76	0	90.0	45 - 135				
1,4-Dichlorobenzene	19.7	µg/kg-dry	SW8260D	0.925	2.18	21.76	0	90.7	43 - 135				
1,4-Dioxane	183	µg/kg-dry	SW8260D	30.1	54.4	217.6	0	84.1	58 - 146				
2-Butanone	19.5	µg/kg-dry	SW8260D	1.43	10.9	21.76	0	89.7	59 - 184				
2-Hexanone	19.2	µg/kg-dry	SW8260D	0.910	5.44	21.76	0	88.3	61 - 192				
4-Methyl-2-pentanone	18.8	µg/kg-dry	SW8260D	0.581	5.44	21.76	0	86.6	58 - 145				
Acetone	21.3	µg/kg-dry	SW8260D	9.02	10.9	21.76	0	98.0	17 - 296				
Benzene	17.9	µg/kg-dry	SW8260D	0.392	2.18	21.76	1.45	75.6	70 - 140				
Bromochloromethane	18.0	µg/kg-dry	SW8260D	0.260	2.18	21.76	0	82.6	69 - 123				
Bromodichloromethane	18.4	µg/kg-dry	SW8260D	1.07	2.18	21.76	0	84.7	76 - 140				
Bromoform	19.7	µg/kg-dry	SW8260D	0.347	2.18	21.76	0	90.7	71 - 175				
Bromomethane	14.5	µg/kg-dry	SW8260D	2.84	5.44	21.76	0	66.6	10 - 168				
Carbon disulfide	15.3	µg/kg-dry	SW8260D	0.269	2.18	21.76	0	70.3	31 - 174				
Carbon tetrachloride	16.8	µg/kg-dry	SW8260D	0.456	2.18	21.76	0	77.4	58 - 145				
Chlorobenzene	18.4	µg/kg-dry	SW8260D	0.592	2.18	21.76	0	84.8	61 - 125				

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101276-002CMS Date Analyzed: 01/25/2021 914h													
Test Code: 8260D-S													
Chloroethane	15.8	µg/kg-dry	SW8260D	1.35	2.18	21.76	0	72.6	10 - 161				
Chloroform	16.3	µg/kg-dry	SW8260D	0.237	2.18	21.76	0	74.9	74 - 135				
Chloromethane	14.5	µg/kg-dry	SW8260D	2.46	3.26	21.76	0	66.6	30 - 149				
cis-1,2-Dichloroethene	17.2	µg/kg-dry	SW8260D	0.358	2.18	21.76	0	79.0	63 - 142				
cis-1,3-Dichloropropene	18.9	µg/kg-dry	SW8260D	0.391	2.18	21.76	0	86.8	67 - 127				
Cyclohexane	14.1	µg/kg-dry	SW8260D	0.870	2.18	21.76	0	64.6	44 - 162				
Dibromochloromethane	19.1	µg/kg-dry	SW8260D	0.148	2.18	21.76	0	87.9	76 - 121				
Dichlorodifluoromethane	17.3	µg/kg-dry	SW8260D	1.51	2.18	21.76	0	79.5	20 - 130				
Ethylbenzene	18.6	µg/kg-dry	SW8260D	0.734	2.18	21.76	0	85.4	52 - 140				
Isopropylbenzene	18.9	µg/kg-dry	SW8260D	2.01	2.18	21.76	0	86.8	50 - 140				
m,p-Xylene	40.0	µg/kg-dry	SW8260D	1.02	2.18	43.52	3.7	83.4	44 - 142				
Methyl Acetate	26.2	µg/kg-dry	SW8260D	2.40	5.44	21.76	0	120	70 - 240				
Methyl tert-butyl ether	18.5	µg/kg-dry	SW8260D	0.228	2.18	21.76	0	85.1	60 - 128				
Methylcyclohexane	15.0	µg/kg-dry	SW8260D	1.59	2.18	21.76	0	69.1	41 - 171				
Methylene chloride	13.6	µg/kg-dry	SW8260D	1.97	5.44	21.76	0	62.4	10 - 128				
Naphthalene	20.0	µg/kg-dry	SW8260D	1.15	2.18	21.76	0	92.1	43 - 135				
o-Xylene	19.3	µg/kg-dry	SW8260D	0.757	2.18	21.76	1.1	83.6	44 - 142				
Styrene	19.6	µg/kg-dry	SW8260D	0.804	2.18	21.76	0	90.2	56 - 140				
Tetrachloroethene	30.1	µg/kg-dry	SW8260D	0.580	2.18	21.76	0	138	40 - 200				
Toluene	20.4	µg/kg-dry	SW8260D	0.666	2.18	21.76	4.57	72.7	54 - 132				
trans-1,2-Dichloroethene	16.1	µg/kg-dry	SW8260D	0.284	2.18	21.76	0	74.1	57 - 175				
trans-1,3-Dichloropropene	19.8	µg/kg-dry	SW8260D	0.371	2.18	21.76	0	90.9	66 - 117				
Trichloroethene	18.5	µg/kg-dry	SW8260D	0.424	2.18	21.76	0	85.1	61 - 143				
Trichlorofluoromethane	16.5	µg/kg-dry	SW8260D	0.257	2.18	21.76	0	75.8	10 - 140				
Vinyl chloride	14.9	µg/kg-dry	SW8260D	0.248	1.09	21.76	0	68.6	47 - 135				
Surr: 1,2-Dichloroethane-d4	54.9	µg/kg-dry	SW8260D			54.40		101	70 - 132				
Surr: 4-Bromofluorobenzene	58.4	µg/kg-dry	SW8260D			54.40		107	70 - 125				
Surr: Dibromofluoromethane	52.2	µg/kg-dry	SW8260D			54.40		95.9	70 - 133				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101276-002CMS Date Analyzed: 01/25/2021 914h													
Test Code: 8260D-S													
Surr: Toluene-d8	58.4	µg/kg-dry	SW8260D			54.40		107	70 - 123				

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101276-002CMSD Date Analyzed: 01/25/2021 934h													
Test Code: 8260D-S													
1,1,1-Trichloroethane	15.9	µg/kg-dry	SW8260D	0.249	2.15	21.54	0	73.8	64 - 137	17	6.67	35	
1,1,2,2-Tetrachloroethane	20.0	µg/kg-dry	SW8260D	0.399	2.15	21.54	0	92.7	74 - 150	20	0.247	35	
1,1,2-Trichloro-1,2,2-trifluoroethane	15.1	µg/kg-dry	SW8260D	1.01	2.15	21.54	0	69.9	37 - 170	15.8	4.86	35	
1,1,2-Trichloroethane	19.9	µg/kg-dry	SW8260D	0.211	2.15	21.54	0	92.3	80 - 117	21.1	5.76	35	
1,1-Dichloroethane	15.8	µg/kg-dry	SW8260D	0.141	2.15	21.54	0	73.2	70 - 175	16.7	5.74	35	
1,1-Dichloroethene	15.0	µg/kg-dry	SW8260D	0.727	2.15	21.54	0	69.6	42 - 210	16	6.59	35	
1,2,3-Trichlorobenzene	18.9	µg/kg-dry	SW8260D	1.11	2.15	21.54	0	87.8	36 - 135	20	5.62	35	
1,2,4-Trichlorobenzene	18.5	µg/kg-dry	SW8260D	1.27	2.15	21.54	0	86.1	21 - 140	19.9	7.25	35	
1,2-Dibromo-3-chloropropane	20.7	µg/kg-dry	SW8260D	0.846	5.39	21.54	0	96.1	62 - 132	19.8	4.61	35	
1,2-Dibromoethane	21.0	µg/kg-dry	SW8260D	0.330	2.15	21.54	0	97.7	76 - 125	21	0.283	35	
1,2-Dichlorobenzene	18.3	µg/kg-dry	SW8260D	0.730	2.15	21.54	0	84.8	56 - 125	19.5	6.73	35	
1,2-Dichloroethane	19.4	µg/kg-dry	SW8260D	0.127	2.15	21.54	0	90.0	79 - 135	19.5	0.615	35	
1,2-Dichloropropane	17.9	µg/kg-dry	SW8260D	0.883	2.15	21.54	0	83.1	68 - 133	18.9	5.54	35	
1,3-Dichlorobenzene	17.8	µg/kg-dry	SW8260D	1.11	2.15	21.54	0	82.6	45 - 135	19.6	9.64	35	
1,4-Dichlorobenzene	18.3	µg/kg-dry	SW8260D	0.916	2.15	21.54	0	85.1	43 - 135	19.7	7.43	35	
1,4-Dioxane	185	µg/kg-dry	SW8260D	29.8	53.9	215.4	0	85.8	58 - 146	183	0.990	35	
2-Butanone	21.8	µg/kg-dry	SW8260D	1.41	10.8	21.54	0	101	59 - 184	19.5	11.1	35	
2-Hexanone	20.3	µg/kg-dry	SW8260D	0.900	5.39	21.54	0	94.0	61 - 192	19.2	5.31	35	
4-Methyl-2-pentanone	20.0	µg/kg-dry	SW8260D	0.575	5.39	21.54	0	93.1	58 - 145	18.8	6.23	35	
Acetone	22.7	µg/kg-dry	SW8260D	8.93	10.8	21.54	0	105	17 - 296	21.3	6.32	35	
Benzene	17.0	µg/kg-dry	SW8260D	0.388	2.15	21.54	1.45	72.3	70 - 140	17.9	4.91	35	
Bromochloromethane	17.3	µg/kg-dry	SW8260D	0.257	2.15	21.54	0	80.4	69 - 123	18	3.77	35	
Bromodichloromethane	17.6	µg/kg-dry	SW8260D	1.06	2.15	21.54	0	81.6	76 - 140	18.4	4.67	35	
Bromoform	19.7	µg/kg-dry	SW8260D	0.344	2.15	21.54	0	91.6	71 - 175	19.7	0.0722	35	
Bromomethane	13.3	µg/kg-dry	SW8260D	2.81	5.39	21.54	0	61.9	10 - 168	14.5	8.32	35	
Carbon disulfide	14.3	µg/kg-dry	SW8260D	0.266	2.15	21.54	0	66.3	31 - 174	15.3	6.79	35	
Carbon tetrachloride	15.0	µg/kg-dry	SW8260D	0.451	2.15	21.54	0	69.7	58 - 145	16.8	11.5	35	
Chlorobenzene	16.9	µg/kg-dry	SW8260D	0.586	2.15	21.54	0	78.3	61 - 125	18.4	8.91	35	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101276-002CMSD Date Analyzed: 01/25/2021 934h													
Test Code: 8260D-S													
Chloroethane	16.5	µg/kg-dry	SW8260D	1.34	2.15	21.54	0	76.5	10 - 161	15.8	4.30	35	
Chloroform	16.2	µg/kg-dry	SW8260D	0.235	2.15	21.54	0	75.1	74 - 135	16.3	0.805	35	
Chloromethane	13.7	µg/kg-dry	SW8260D	2.43	3.23	21.54	0	63.5	30 - 149	14.5	5.77	35	
cis-1,2-Dichloroethene	16.8	µg/kg-dry	SW8260D	0.354	2.15	21.54	0	77.9	63 - 142	17.2	2.34	35	
cis-1,3-Dichloropropene	18.7	µg/kg-dry	SW8260D	0.387	2.15	21.54	0	86.9	67 - 127	18.9	0.832	35	
Cyclohexane	12.7	µg/kg-dry	SW8260D	0.862	2.15	21.54	0	59.0	44 - 162	14.1	10.1	35	
Dibromochloromethane	19.0	µg/kg-dry	SW8260D	0.146	2.15	21.54	0	88.4	76 - 121	19.1	0.494	35	
Dichlorodifluoromethane	15.2	µg/kg-dry	SW8260D	1.50	2.15	21.54	0	70.7	20 - 130	17.3	12.7	35	
Ethylbenzene	16.5	µg/kg-dry	SW8260D	0.727	2.15	21.54	0	76.5	52 - 140	18.6	12.0	35	
Isopropylbenzene	16.6	µg/kg-dry	SW8260D	1.99	2.15	21.54	0	76.9	50 - 140	18.9	13.2	35	
m,p-Xylene	36.0	µg/kg-dry	SW8260D	1.01	2.15	43.09	3.7	74.9	44 - 142	40	10.6	35	
Methyl Acetate	28.2	µg/kg-dry	SW8260D	2.38	5.39	21.54	0	131	70 - 240	26.2	7.39	35	
Methyl tert-butyl ether	18.4	µg/kg-dry	SW8260D	0.226	2.15	21.54	0	85.4	60 - 128	18.5	0.653	35	
Methylcyclohexane	13.0	µg/kg-dry	SW8260D	1.57	2.15	21.54	0	60.2	41 - 171	15	14.8	35	
Methylene chloride	13.5	µg/kg-dry	SW8260D	1.95	5.39	21.54	0	62.5	10 - 128	13.6	0.765	35	
Naphthalene	20.0	µg/kg-dry	SW8260D	1.14	2.15	21.54	0	92.8	43 - 135	20	0.248	35	
o-Xylene	17.6	µg/kg-dry	SW8260D	0.750	2.15	21.54	1.1	76.5	44 - 142	19.3	9.22	35	
Styrene	18.1	µg/kg-dry	SW8260D	0.796	2.15	21.54	0	84.2	56 - 140	19.6	7.88	35	
Tetrachloroethene	28.1	µg/kg-dry	SW8260D	0.574	2.15	21.54	0	131	40 - 200	30.1	6.73	35	
Toluene	18.5	µg/kg-dry	SW8260D	0.659	2.15	21.54	4.57	64.9	54 - 132	20.4	9.46	35	
trans-1,2-Dichloroethene	15.4	µg/kg-dry	SW8260D	0.281	2.15	21.54	0	71.3	57 - 175	16.1	4.86	35	
trans-1,3-Dichloropropene	19.5	µg/kg-dry	SW8260D	0.367	2.15	21.54	0	90.3	66 - 117	19.8	1.67	35	
Trichloroethene	17.4	µg/kg-dry	SW8260D	0.420	2.15	21.54	0	80.6	61 - 143	18.5	6.50	35	
Trichlorofluoromethane	15.7	µg/kg-dry	SW8260D	0.254	2.15	21.54	0	73.0	10 - 140	16.5	4.70	35	
Vinyl chloride	13.8	µg/kg-dry	SW8260D	0.246	1.08	21.54	0	63.9	47 - 135	14.9	8.10	35	
Surr: 1,2-Dichloroethane-d4	54.6	µg/kg-dry	SW8260D			53.86		101	70 - 132				
Surr: 4-Bromofluorobenzene	56.4	µg/kg-dry	SW8260D			53.86		105	70 - 125				
Surr: Dibromofluoromethane	53.0	µg/kg-dry	SW8260D			53.86		98.3	70 - 133				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101481
Project: Forsey's Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101276-002CMSD Date Analyzed: 01/25/2021 934h													
Test Code: 8260D-S													
Surr: Toluene-d8	56.4	µg/kg-dry	SW8260D			53.86		105	70 - 123				

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5 Day Rush

American West Analytical Laboratories

REVISED: 1/21/20

Added a 5 day rush per client. -AR

Rpt Emailed: UL

WORK ORDER Summary

Work Order: **2101481**

Client: Applied Geotechnical

Due Date: 1/27/2021

Client ID: APP100 **Contact:** Joe DeGooyer

Project: **Forsey's Cleaners Additional MW's / 1210017** **QC Level:** II+

WO Type: Standard

Comments: Level 2+ QC. 1/21/21: Added a 5 day rush per client. -AR;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2101481-001A	**MW-6 @ 7'**	1/20/2021 1100h	1/20/2021 1722h	**8260D-S**	Soil	☑	Purge	2
				Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4				
				PMOIST		☐	Purge	
2101481-002A	**MW-6 @ 11'**	1/20/2021 1110h	1/20/2021 1722h	**8260D-S**	Soil	☑	Purge	2
				Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4				
				PMOIST		☐	Purge	
2101481-003A	**MW-7 @ 7.5'**	1/20/2021 1157h	1/20/2021 1722h	**8260D-S**	Soil	☑	Purge	2
				Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4				
				PMOIST		☐	Purge	
2101481-004A	**MW-8 @ 7.5'**	1/20/2021 1238h	1/20/2021 1722h	**8260D-S**	Soil	☑	Purge	2
				Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4				
				PMOIST		☐	Purge	
2101481-005A	**MW-9 @ 8.5'**	1/20/2021 1336h	1/20/2021 1722h	**8260D-S**	Soil	☑	Purge	2
				Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4				
				PMOIST		☐	Purge	
2101481-006A	**MW-10 @ 6.5'**	1/20/2021 1430h	1/20/2021 1722h	**8260D-S**	Soil	☑	Purge	2
				Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4				
				PMOIST		☐	Purge	

American West Analytical Laboratories

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www.awal-labs.com

CHAIN OF CUSTODY

2101481
AWAL Lab Sample Set #

Page ____ of ____

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

QC Level: 1 2 (2+) 3 3+

Turn Around Time: 1 2 3 4 5 (Stnd)

Rush sets received after **4:00 pm** are considered received on the next business day.

Due Date: 2/3

Client:	Applied Geotechnical Engineering Consult
Address:	600 W. Sandy Pkwy
City, State, Zip:	Sandy UTAH 84070
Contact:	Joe DeGooyer
Phone #:	801-566-6399 Cell #: 801-651-5899
E-mail:	joed@agec inc.com
Project Name:	Forsey's Cleaners Additional MW's
Project #:	1210017
PO #:	
Sampler Name:	Joe DeGooyer

	Sample Site ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Tot/Dis VOC's								Known Hazards & Sample Comments
1	MW-6 @ 7'	1/20/21	11:00 AM	2	S	/								
2	MW-6 @ 11'	1/20/21	11:10 AM	2	S	/								
3	MW-7 @ 7½'	1/20/21	11:57 AM	2	S	/								
4	MW-8 @ 7½'	1/20/21	12:38 pm	2	S	/								
5	MW-9 @ 8½'	1/20/21	1:30 pm	2	S	/								
6	MW-10 @ 6½'	1/20/21	2:32 pm	2	S	/								
7														
8														
9														
10														
11														
12														
13														
14														
15														

- ☐ Report down to the MDL
- ☐ Include EDD:
- ☐ Lab Filter for:
- ☐ Field Filtered For:

For Compliance With:

- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ Non-Compliance
- ☐ Other:

Unless other arrangements have been made, signed reports will be emailed by **5:00 pm** on the day they are due.

Laboratory Use Only

COC Tape Was:
1 Present on Outer Package Y N (NA)
2 Unbroken on Outer Package Y N (NA)
3 Present on Sample Y (N)
4 Unbroken on Sample Y N (NA)

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 2.6 °C
4 Received Intact (Y) N
5 Properly Preserved (Y) N Checked at bench
6 Received Within Holding Times (Y) N

Sample Labels and COC Record Match? (Y) N

Relinquished by: Signature	Joe DeGooyer	Received by: Signature	Elena Hayward
Print Name:	Joseph R DeGooyer	Print Name:	Elena Hayward
Date:	1/20/21	Date:	1/20/21
Time:	5:22	Time:	1722
Relinquished by: Signature		Received by: Signature	
Print Name:		Print Name:	
Date:		Date:	
Time:		Time:	
Relinquished by: Signature		Received by: Signature	
Print Name:		Print Name:	
Date:		Date:	
Time:		Time:	

Special Instructions:

* client added a 5 day rush
AR 1/21/20

By signing this Chain of Custody you are agreeing to permit AWAL to subcontract any analyses not normally performed at AWAL.

REV 2/7/2020

American West
ANALYTICAL LABORATORIES

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Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Joe DeGooyer
Applied Geotechnical
600 West Sandy Parkway
Sandy, UT 84070
TEL: (801) 566-6399

RE: Forseys Cleaners Additional MW's / 1210017

Dear Joe DeGooyer: Lab Set ID: 2101579

American West Analytical Laboratories received sample(s) on 1/22/2021 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: Kyle F. Gross Digitally signed by Kyle F. Gross Date: 2021.01.26 13:58:07 -07'00'

Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Additional MW's / 1210017
Lab Sample ID: 2101579-001A
Client Sample ID: MW-6
Collection Date: 1/22/2021 1220h
Received Date: 1/22/2021 1700h
Test Code: 8260D-W

Analytical Results VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 1/25/2021 818h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	#
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101579-001A
Client Sample ID: MW-6

Analyzed: 1/25/2021 818h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	**22.4**	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.3	50.00	98.6	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	50.8	50.00	102	85-121	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	78-132	
Surr: Toluene-d8	2037-26-5	52.2	50.00	104	81-123	

 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Additional MW's / 1210017
Lab Sample ID: 2101579-002A
Client Sample ID: MW-6 - Duplicate
Collection Date: 1/22/2021 1230h
Received Date: 1/22/2021 1700h
Test Code: 8260D-W

Analytical Results VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 1/25/2021 1347h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	#
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101579-002A
Client Sample ID: MW-6 - Duplicate

Analyzed: 1/25/2021 1347h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	**21.3**	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.6	50.00	99.2	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	48.8	50.00	97.7	85-121	
Surr: Dibromofluoromethane	1868-53-7	51.9	50.00	104	78-132	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	81-123	

 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Additional MW's / 1210017
Lab Sample ID: 2101579-003A
Client Sample ID: MW-7
Collection Date: 1/22/2021 1340h
Received Date: 1/22/2021 1700h
Test Code: 8260D-W

Analytical Results VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 1/26/2021 807h **Extracted:**
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Tetrachloroethene	127-18-4	20.0	**204**	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	520	500.0	104	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	514	500.0	103	85-121	
Surr: Dibromofluoromethane		1868-53-7	532	500.0	106	78-132	
Surr: Toluene-d8		2037-26-5	521	500.0	104	81-123	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 1/25/2021 1407h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	#
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101579-003A
Client Sample ID: MW-7

Analyzed: 1/25/2021 1407h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	**4.10**	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

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Lab Sample ID: 2101579-003A
Client Sample ID: MW-7

Analyzed: 1/25/2021 1407h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.8	50.00	102	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	51.8	50.00	104	85-121	
Surr: Dibromofluoromethane		1868-53-7	52.5	50.00	105	78-132	
Surr: Toluene-d8		2037-26-5	51.8	50.00	104	81-123	

 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Additional MW's / 1210017
Lab Sample ID: 2101579-004A
Client Sample ID: MW-8
Collection Date: 1/22/2021 1410h
Received Date: 1/22/2021 1700h
Test Code: 8260D-W

Analytical Results VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 1/25/2021 1426h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	#
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101579-004A
Client Sample ID: MW-8

Analyzed: 1/25/2021 1426h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	**37.2**	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.2	50.00	100	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	50.2	50.00	100	85-121	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	78-132	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	81-123	

 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Additional MW's / 1210017
Lab Sample ID: 2101579-005A
Client Sample ID: MW-9
Collection Date: 1/22/2021 1505h
Received Date: 1/22/2021 1700h
Test Code: 8260D-W

Analytical Results VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 1/25/2021 1445h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	#
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101579-005A
Client Sample ID: MW-9

Analyzed: 1/25/2021 1445h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.3	50.00	101	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	48.0	50.00	96.0	85-121	
Surr: Dibromofluoromethane	1868-53-7	52.1	50.00	104	78-132	
Surr: Toluene-d8	2037-26-5	51.7	50.00	103	81-123	

 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Additional MW's / 1210017
Lab Sample ID: 2101579-006A
Client Sample ID: MW-10
Collection Date: 1/22/2021 1550h
Received Date: 1/22/2021 1700h
Test Code: 8260D-W

Analytical Results VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 1/27/2021 703h **Extracted:**
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Tetrachloroethene	127-18-4	20.0	**226**	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	507	500.0	101	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	512	500.0	102	85-121	
Surr: Dibromofluoromethane		1868-53-7	521	500.0	104	78-132	
Surr: Toluene-d8		2037-26-5	510	500.0	102	81-123	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 1/25/2021 1505h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	#
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101579-006A
Client Sample ID: MW-10

Analyzed: 1/25/2021 1505h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	**12.7**	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101579-006A
Client Sample ID: MW-10

Analyzed: 1/25/2021 1505h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.9	50.00	102	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	48.8	50.00	97.5	85-121	
Surr: Dibromofluoromethane		1868-53-7	52.5	50.00	105	78-132	
Surr: Toluene-d8		2037-26-5	50.5	50.00	101	81-123	

 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Applied Geotechnical **Contact:** Joe DeGooyer
Project: Forseys Cleaners Additional MW's / 1210017
Lab Sample ID: 2101579-007A
Client Sample ID: Trip Blank
Collection Date: 1/22/2021 1700h
Received Date: 1/22/2021 1700h
Test Code: 8260D-W

Analytical Results VOAs AWAL List by GC/MS Method 8260D/5030C

Analyzed: 1/26/2021 827h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	$
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	$
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	$
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 2101579-007A
Client Sample ID: Trip Blank

Analyzed: 1/26/2021 827h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl chloride	75-01-4	1.00	< 1.00	

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.9	50.00	102	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	47.4	50.00	94.8	85-121	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	78-132	
Surr: Toluene-d8	2037-26-5	50.1	50.00	100	81-123	

 # - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 012521A Date Analyzed: 01/25/2021 726h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	20.1	µg/L	SW8260D	0.326	2.00	20.00	0	100	72 - 132				
1,1,2,2-Tetrachloroethane	18.7	µg/L	SW8260D	0.164	2.00	20.00	0	93.5	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	20.5	µg/L	SW8260D	2.00	2.00	20.00	0	102	54 - 174				
1,1,2-Trichloroethane	20.1	µg/L	SW8260D	0.143	2.00	20.00	0	101	88 - 126				
1,1-Dichloroethane	20.6	µg/L	SW8260D	1.43	2.00	20.00	0	103	78 - 142				
1,1-Dichloroethene	22.4	µg/L	SW8260D	0.844	2.00	20.00	0	112	37 - 144				
1,2,3-Trichlorobenzene	18.4	µg/L	SW8260D	1.28	2.00	20.00	0	92.1	60 - 136				
1,2,4-Trichlorobenzene	18.5	µg/L	SW8260D	1.53	2.00	20.00	0	92.5	45 - 138				
1,2-Dibromo-3-chloropropane	16.5	µg/L	SW8260D	0.295	5.00	20.00	0	82.4	71 - 129				
1,2-Dibromoethane	19.8	µg/L	SW8260D	0.248	2.00	20.00	0	98.8	77 - 124				
1,2-Dichlorobenzene	19.6	µg/L	SW8260D	0.155	2.00	20.00	0	98.0	70 - 130				
1,2-Dichloroethane	19.2	µg/L	SW8260D	0.144	2.00	20.00	0	96.0	76 - 132				
1,2-Dichloropropane	19.6	µg/L	SW8260D	0.282	2.00	20.00	0	97.8	81 - 135				
1,3-Dichlorobenzene	20.0	µg/L	SW8260D	0.191	2.00	20.00	0	99.9	71 - 139				
1,4-Dichlorobenzene	19.6	µg/L	SW8260D	0.229	2.00	20.00	0	98.0	67 - 138				
1,4-Dioxane	115	µg/L	SW8260D	21.5	50.0	200.0	0	57.7	42 - 171				
2-Butanone	23.1	µg/L	SW8260D	1.22	10.0	20.00	0	116	69 - 236				
2-Hexanone	14.4	µg/L	SW8260D	0.225	5.00	20.00	0	71.8	51 - 167				
4-Methyl-2-pentanone	15.0	µg/L	SW8260D	0.296	5.00	20.00	0	75.0	68 - 128				
Acetone	21.2	µg/L	SW8260D	2.76	10.0	20.00	0	106	36 - 198				
Benzene	20.6	µg/L	SW8260D	0.147	2.00	20.00	0	103	78 - 125				
Bromochloromethane	20.0	µg/L	SW8260D	0.712	2.00	20.00	0	99.8	80 - 130				
Bromodichloromethane	19.0	µg/L	SW8260D	0.138	2.00	20.00	0	94.8	85 - 123				
Bromoform	18.3	µg/L	SW8260D	0.151	2.00	20.00	0	91.5	65 - 122				
Bromomethane	17.2	µg/L	SW8260D	3.08	5.00	20.00	0	86.2	10 - 168				
Carbon disulfide	24.1	µg/L	SW8260D	0.823	2.00	20.00	0	121	34 - 178				
Carbon tetrachloride	20.3	µg/L	SW8260D	0.859	2.00	20.00	0	101	66 - 143				
Chlorobenzene	20.5	µg/L	SW8260D	0.154	2.00	20.00	0	102	74 - 126				

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 012521A Date Analyzed: 01/25/2021 726h													
Test Code: 8260D-W													
Chloroethane	21.9	µg/L	SW8260D	1.37	2.00	20.00	0	109	45 - 154				
Chloroform	19.3	µg/L	SW8260D	0.166	2.00	20.00	0	96.3	74 - 120				
Chloromethane	17.1	µg/L	SW8260D	0.802	3.00	20.00	0	85.4	30 - 149				
cis-1,2-Dichloroethene	20.5	µg/L	SW8260D	0.188	2.00	20.00	0	103	70 - 132				
cis-1,3-Dichloropropene	19.9	µg/L	SW8260D	0.859	2.00	20.00	0	99.4	84 - 123				
Cyclohexane	16.9	µg/L	SW8260D	0.234	2.00	20.00	0	84.6	43 - 181				
Dibromochloromethane	19.2	µg/L	SW8260D	0.132	2.00	20.00	0	95.9	75 - 123				
Dichlorodifluoromethane	18.7	µg/L	SW8260D	0.430	2.00	20.00	0	93.6	10 - 165				
Ethylbenzene	20.7	µg/L	SW8260D	0.164	2.00	20.00	0	104	67 - 130				
Isopropylbenzene	20.5	µg/L	SW8260D	0.282	2.00	20.00	0	103	68 - 147				
m,p-Xylene	43.4	µg/L	SW8260D	0.575	2.00	40.00	0	108	69 - 142				
Methyl Acetate	24.8	µg/L	SW8260D	1.27	5.00	20.00	0	124	87 - 300				
Methyl tert-butyl ether	19.4	µg/L	SW8260D	1.60	2.00	20.00	0	97.2	58 - 135				
Methylcyclohexane	17.5	µg/L	SW8260D	0.569	2.00	20.00	0	87.3	55 - 151				
Methylene chloride	20.3	µg/L	SW8260D	0.381	2.00	20.00	0	101	65 - 154				
Naphthalene	16.0	µg/L	SW8260D	0.704	2.00	20.00	0	80.1	55 - 128				
o-Xylene	20.3	µg/L	SW8260D	0.153	2.00	20.00	0	102	70 - 142				
Styrene	18.7	µg/L	SW8260D	0.133	2.00	20.00	0	93.4	71 - 135				
Tetrachloroethene	21.7	µg/L	SW8260D	0.518	2.00	20.00	0	109	58 - 149				
Toluene	20.7	µg/L	SW8260D	0.285	2.00	20.00	0	103	69 - 129				
trans-1,2-Dichloroethene	21.6	µg/L	SW8260D	0.282	2.00	20.00	0	108	70 - 134				
trans-1,3-Dichloropropene	19.4	µg/L	SW8260D	0.772	2.00	20.00	0	97.1	63 - 132				
Trichloroethene	20.6	µg/L	SW8260D	0.180	2.00	20.00	0	103	72 - 136				
Trichlorofluoromethane	19.4	µg/L	SW8260D	0.375	2.00	20.00	0	97.3	59 - 152				
Vinyl chloride	19.3	µg/L	SW8260D	0.205	1.00	20.00	0	96.6	43 - 152				
Surr: 1,2-Dichloroethane-d4	49.4	µg/L	SW8260D			50.00		98.8	80 - 136				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260D			50.00		99.7	85 - 121				
Surr: Dibromofluoromethane	51.4	µg/L	SW8260D			50.00		103	78 - 132				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 012521A Date Analyzed: 01/25/2021 726h													
Test Code: 8260D-W													
Surr: Toluene-d8	52.0	µg/L	SW8260D			50.00		104	81 - 123				
Lab Sample ID: LCS VOC-1 012621A Date Analyzed: 01/26/2021 650h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	23.0	µg/L	SW8260D	0.326	2.00	20.00	0	115	72 - 132				
1,1,2,2-Tetrachloroethane	20.5	µg/L	SW8260D	0.164	2.00	20.00	0	103	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	23.1	µg/L	SW8260D	2.00	2.00	20.00	0	116	54 - 174				
1,1,2-Trichloroethane	21.9	µg/L	SW8260D	0.143	2.00	20.00	0	109	88 - 126				
1,1-Dichloroethane	23.4	µg/L	SW8260D	1.43	2.00	20.00	0	117	78 - 142				
1,1-Dichloroethene	25.9	µg/L	SW8260D	0.844	2.00	20.00	0	129	37 - 144				
1,2,3-Trichlorobenzene	19.9	µg/L	SW8260D	1.28	2.00	20.00	0	99.4	60 - 136				
1,2,4-Trichlorobenzene	19.3	µg/L	SW8260D	1.53	2.00	20.00	0	96.5	45 - 138				
1,2-Dibromo-3-chloropropane	17.2	µg/L	SW8260D	0.295	5.00	20.00	0	86.2	71 - 129				
1,2-Dibromoethane	21.7	µg/L	SW8260D	0.248	2.00	20.00	0	108	77 - 124				
1,2-Dichlorobenzene	21.1	µg/L	SW8260D	0.155	2.00	20.00	0	106	70 - 130				
1,2-Dichloroethane	21.5	µg/L	SW8260D	0.144	2.00	20.00	0	108	76 - 132				
1,2-Dichloropropane	21.8	µg/L	SW8260D	0.282	2.00	20.00	0	109	81 - 135				
1,3-Dichlorobenzene	22.2	µg/L	SW8260D	0.191	2.00	20.00	0	111	71 - 139				
1,4-Dichlorobenzene	21.0	µg/L	SW8260D	0.229	2.00	20.00	0	105	67 - 138				
1,4-Dioxane	163	µg/L	SW8260D	21.5	50.0	200.0	0	81.7	42 - 171				
2-Butanone	24.5	µg/L	SW8260D	1.22	10.0	20.00	0	123	69 - 236				
2-Hexanone	15.0	µg/L	SW8260D	0.225	5.00	20.00	0	74.8	51 - 167				
4-Methyl-2-pentanone	16.6	µg/L	SW8260D	0.296	5.00	20.00	0	82.9	68 - 128				
Acetone	19.4	µg/L	SW8260D	2.76	10.0	20.00	0	97.0	36 - 198				
Benzene	22.7	µg/L	SW8260D	0.147	2.00	20.00	0	113	78 - 125				
Bromochloromethane	22.2	µg/L	SW8260D	0.712	2.00	20.00	0	111	80 - 130				
Bromodichloromethane	21.1	µg/L	SW8260D	0.138	2.00	20.00	0	106	85 - 123				
Bromoform	20.1	µg/L	SW8260D	0.151	2.00	20.00	0	100	65 - 122				

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 012621A Date Analyzed: 01/26/2021 650h													
Test Code: 8260D-W													
Bromomethane	19.1	µg/L	SW8260D	3.08	5.00	20.00	0	95.7	10 - 168				
Carbon disulfide	27.7	µg/L	SW8260D	0.823	2.00	20.00	0	139	34 - 178				
Carbon tetrachloride	23.0	µg/L	SW8260D	0.859	2.00	20.00	0	115	66 - 143				
Chlorobenzene	22.7	µg/L	SW8260D	0.154	2.00	20.00	0	113	74 - 126				
Chloroethane	24.9	µg/L	SW8260D	1.37	2.00	20.00	0	125	45 - 154				
Chloroform	21.8	µg/L	SW8260D	0.166	2.00	20.00	0	109	74 - 120				
Chloromethane	19.4	µg/L	SW8260D	0.802	3.00	20.00	0	96.8	30 - 149				
cis-1,2-Dichloroethene	23.3	µg/L	SW8260D	0.188	2.00	20.00	0	116	70 - 132				
cis-1,3-Dichloropropene	22.3	µg/L	SW8260D	0.859	2.00	20.00	0	112	84 - 123				
Cyclohexane	19.8	µg/L	SW8260D	0.234	2.00	20.00	0	98.8	43 - 181				
Dibromochloromethane	21.1	µg/L	SW8260D	0.132	2.00	20.00	0	105	75 - 123				
Dichlorodifluoromethane	21.3	µg/L	SW8260D	0.430	2.00	20.00	0	106	10 - 165				
Ethylbenzene	23.2	µg/L	SW8260D	0.164	2.00	20.00	0	116	67 - 130				
Isopropylbenzene	22.9	µg/L	SW8260D	0.282	2.00	20.00	0	114	68 - 147				
m,p-Xylene	48.6	µg/L	SW8260D	0.575	2.00	40.00	0	122	69 - 142				
Methyl Acetate	27.3	µg/L	SW8260D	1.27	5.00	20.00	0	137	87 - 300				
Methyl tert-butyl ether	21.2	µg/L	SW8260D	1.60	2.00	20.00	0	106	58 - 135				
Methylcyclohexane	19.4	µg/L	SW8260D	0.569	2.00	20.00	0	97.2	55 - 151				
Methylene chloride	22.8	µg/L	SW8260D	0.381	2.00	20.00	0	114	65 - 154				
Naphthalene	17.1	µg/L	SW8260D	0.704	2.00	20.00	0	85.4	55 - 128				
o-Xylene	22.5	µg/L	SW8260D	0.153	2.00	20.00	0	113	70 - 142				
Styrene	20.7	µg/L	SW8260D	0.133	2.00	20.00	0	104	71 - 135				
Tetrachloroethene	24.0	µg/L	SW8260D	0.518	2.00	20.00	0	120	58 - 149				
Toluene	23.0	µg/L	SW8260D	0.285	2.00	20.00	0	115	69 - 129				
trans-1,2-Dichloroethene	25.2	µg/L	SW8260D	0.282	2.00	20.00	0	126	70 - 134				
trans-1,3-Dichloropropene	21.6	µg/L	SW8260D	0.772	2.00	20.00	0	108	63 - 132				
Trichloroethene	23.4	µg/L	SW8260D	0.180	2.00	20.00	0	117	72 - 136				
Trichlorofluoromethane	22.4	µg/L	SW8260D	0.375	2.00	20.00	0	112	59 - 152				

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 012621A Date Analyzed: 01/26/2021 650h													
Test Code: 8260D-W													
Vinyl chloride	22.2	µg/L	SW8260D	0.205	1.00	20.00	0	111	43 - 152				
Surr: 1,2-Dichloroethane-d4	48.9	µg/L	SW8260D			50.00		97.7	80 - 136				
Surr: 4-Bromofluorobenzene	46.9	µg/L	SW8260D			50.00		93.8	85 - 121				
Surr: Dibromofluoromethane	51.4	µg/L	SW8260D			50.00		103	78 - 132				
Surr: Toluene-d8	49.9	µg/L	SW8260D			50.00		99.7	81 - 123				
Lab Sample ID: LCS VOC-1 012721A Date Analyzed: 01/27/2021 605h													
Test Code: 8260D-W													
Tetrachloroethene	23.3	µg/L	SW8260D	0.518	2.00	20.00	0	116	58 - 149				
Surr: 1,2-Dichloroethane-d4	48.5	µg/L	SW8260D			50.00		97.0	80 - 136				
Surr: 4-Bromofluorobenzene	46.7	µg/L	SW8260D			50.00		93.5	85 - 121				
Surr: Dibromofluoromethane	50.7	µg/L	SW8260D			50.00		101	78 - 132				
Surr: Toluene-d8	50.2	µg/L	SW8260D			50.00		100	81 - 123				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 012521A Date Analyzed: 01/25/2021 745h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	< 2.00	µg/L	SW8260D	0.326	2.00								
1,1,2,2-Tetrachloroethane	< 2.00	µg/L	SW8260D	0.164	2.00								
1,1,2-Trichloro-1,2,2-trifluoroethane	< 2.00	µg/L	SW8260D	2.00	2.00								
1,1,2-Trichloroethane	< 2.00	µg/L	SW8260D	0.143	2.00								
1,1-Dichloroethane	< 2.00	µg/L	SW8260D	1.43	2.00								
1,1-Dichloroethene	< 2.00	µg/L	SW8260D	0.844	2.00								
1,2,3-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.28	2.00								
1,2,4-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.53	2.00								
1,2-Dibromo-3-chloropropane	< 5.00	µg/L	SW8260D	0.295	5.00								
1,2-Dibromoethane	< 2.00	µg/L	SW8260D	0.248	2.00								
1,2-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.155	2.00								
1,2-Dichloroethane	< 2.00	µg/L	SW8260D	0.144	2.00								
1,2-Dichloropropane	< 2.00	µg/L	SW8260D	0.282	2.00								
1,3-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.191	2.00								
1,4-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.229	2.00								
1,4-Dioxane	< 50.0	µg/L	SW8260D	21.5	50.0								
2-Butanone	< 10.0	µg/L	SW8260D	1.22	10.0								
2-Hexanone	< 5.00	µg/L	SW8260D	0.225	5.00								
4-Methyl-2-pentanone	< 5.00	µg/L	SW8260D	0.296	5.00								
Acetone	< 10.0	µg/L	SW8260D	2.76	10.0								
Benzene	< 2.00	µg/L	SW8260D	0.147	2.00								
Bromochloromethane	< 2.00	µg/L	SW8260D	0.712	2.00								
Bromodichloromethane	< 2.00	µg/L	SW8260D	0.138	2.00								
Bromoform	< 2.00	µg/L	SW8260D	0.151	2.00								
Bromomethane	< 5.00	µg/L	SW8260D	3.08	5.00								
Carbon disulfide	< 2.00	µg/L	SW8260D	0.823	2.00								
Carbon tetrachloride	< 2.00	µg/L	SW8260D	0.859	2.00								
Chlorobenzene	< 2.00	µg/L	SW8260D	0.154	2.00								

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 012521A Date Analyzed: 01/25/2021 745h													
Test Code: 8260D-W													
Chloroethane	< 2.00	µg/L	SW8260D	1.37	2.00								
Chloroform	< 2.00	µg/L	SW8260D	0.166	2.00								
Chloromethane	< 3.00	µg/L	SW8260D	0.802	3.00								
cis-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.188	2.00								
cis-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.859	2.00								
Cyclohexane	< 2.00	µg/L	SW8260D	0.234	2.00								
Dibromochloromethane	< 2.00	µg/L	SW8260D	0.132	2.00								
Dichlorodifluoromethane	< 2.00	µg/L	SW8260D	0.430	2.00								
Ethylbenzene	< 2.00	µg/L	SW8260D	0.164	2.00								
Isopropylbenzene	< 2.00	µg/L	SW8260D	0.282	2.00								
m,p-Xylene	< 2.00	µg/L	SW8260D	0.575	2.00								
Methyl Acetate	< 5.00	µg/L	SW8260D	1.27	5.00								
Methyl tert-butyl ether	< 2.00	µg/L	SW8260D	1.60	2.00								
Methylcyclohexane	< 2.00	µg/L	SW8260D	0.569	2.00								
Methylene chloride	< 2.00	µg/L	SW8260D	0.381	2.00								
Naphthalene	< 2.00	µg/L	SW8260D	0.704	2.00								
o-Xylene	< 2.00	µg/L	SW8260D	0.153	2.00								
Styrene	< 2.00	µg/L	SW8260D	0.133	2.00								
Tetrachloroethene	< 2.00	µg/L	SW8260D	0.518	2.00								
Toluene	< 2.00	µg/L	SW8260D	0.285	2.00								
trans-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.282	2.00								
trans-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.772	2.00								
Trichloroethene	< 2.00	µg/L	SW8260D	0.180	2.00								
Trichlorofluoromethane	< 2.00	µg/L	SW8260D	0.375	2.00								
Vinyl chloride	< 1.00	µg/L	SW8260D	0.205	1.00								
Surr: 1,2-Dichloroethane-d4	50.4	µg/L	SW8260D			50.00		101	80 - 136				
Surr: 4-Bromofluorobenzene	51.0	µg/L	SW8260D			50.00		102	85 - 121				
Surr: Dibromofluoromethane	51.8	µg/L	SW8260D			50.00		104	78 - 121				

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QC SUMMARY REPORT

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Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 012521A Date Analyzed: 01/25/2021 745h													
Test Code: 8260D-W													
Surr: Toluene-d8	51.6	µg/L	SW8260D			50.00		103	81 - 123				
Lab Sample ID: MB VOC-1 012621A Date Analyzed: 01/26/2021 709h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	< 2.00	µg/L	SW8260D	0.326	2.00								
1,1,2,2-Tetrachloroethane	< 2.00	µg/L	SW8260D	0.164	2.00								
1,1,2-Trichloro-1,2,2-trifluoroethane	< 2.00	µg/L	SW8260D	2.00	2.00								
1,1,2-Trichloroethane	< 2.00	µg/L	SW8260D	0.143	2.00								
1,1-Dichloroethane	< 2.00	µg/L	SW8260D	1.43	2.00								
1,1-Dichloroethene	< 2.00	µg/L	SW8260D	0.844	2.00								
1,2,3-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.28	2.00								
1,2,4-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.53	2.00								
1,2-Dibromo-3-chloropropane	< 5.00	µg/L	SW8260D	0.295	5.00								
1,2-Dibromoethane	< 2.00	µg/L	SW8260D	0.248	2.00								
1,2-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.155	2.00								
1,2-Dichloroethane	< 2.00	µg/L	SW8260D	0.144	2.00								
1,2-Dichloropropane	< 2.00	µg/L	SW8260D	0.282	2.00								
1,3-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.191	2.00								
1,4-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.229	2.00								
1,4-Dioxane	< 50.0	µg/L	SW8260D	21.5	50.0								
2-Butanone	< 10.0	µg/L	SW8260D	1.22	10.0								
2-Hexanone	< 5.00	µg/L	SW8260D	0.225	5.00								
4-Methyl-2-pentanone	< 5.00	µg/L	SW8260D	0.296	5.00								
Acetone	< 10.0	µg/L	SW8260D	2.76	10.0								
Benzene	< 2.00	µg/L	SW8260D	0.147	2.00								
Bromochloromethane	< 2.00	µg/L	SW8260D	0.712	2.00								
Bromodichloromethane	< 2.00	µg/L	SW8260D	0.138	2.00								
Bromoform	< 2.00	µg/L	SW8260D	0.151	2.00								

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 012621A Date Analyzed: 01/26/2021 709h													
Test Code: 8260D-W													
Bromomethane	< 5.00	µg/L	SW8260D	3.08	5.00								
Carbon disulfide	< 2.00	µg/L	SW8260D	0.823	2.00								
Carbon tetrachloride	< 2.00	µg/L	SW8260D	0.859	2.00								
Chlorobenzene	< 2.00	µg/L	SW8260D	0.154	2.00								
Chloroethane	< 2.00	µg/L	SW8260D	1.37	2.00								
Chloroform	< 2.00	µg/L	SW8260D	0.166	2.00								
Chloromethane	< 3.00	µg/L	SW8260D	0.802	3.00								
cis-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.188	2.00								
cis-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.859	2.00								
Cyclohexane	< 2.00	µg/L	SW8260D	0.234	2.00								
Dibromochloromethane	< 2.00	µg/L	SW8260D	0.132	2.00								
Dichlorodifluoromethane	< 2.00	µg/L	SW8260D	0.430	2.00								
Ethylbenzene	< 2.00	µg/L	SW8260D	0.164	2.00								
Isopropylbenzene	< 2.00	µg/L	SW8260D	0.282	2.00								
m,p-Xylene	< 2.00	µg/L	SW8260D	0.575	2.00								
Methyl Acetate	< 5.00	µg/L	SW8260D	1.27	5.00								
Methyl tert-butyl ether	< 2.00	µg/L	SW8260D	1.60	2.00								
Methylcyclohexane	< 2.00	µg/L	SW8260D	0.569	2.00								
Methylene chloride	< 2.00	µg/L	SW8260D	0.381	2.00								
Naphthalene	< 2.00	µg/L	SW8260D	0.704	2.00								
o-Xylene	< 2.00	µg/L	SW8260D	0.153	2.00								
Styrene	< 2.00	µg/L	SW8260D	0.133	2.00								
Tetrachloroethene	< 2.00	µg/L	SW8260D	0.518	2.00								
Toluene	< 2.00	µg/L	SW8260D	0.285	2.00								
trans-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.282	2.00								
trans-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.772	2.00								
Trichloroethene	< 2.00	µg/L	SW8260D	0.180	2.00								
Trichlorofluoromethane	< 2.00	µg/L	SW8260D	0.375	2.00								

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 012621A Date Analyzed: 01/26/2021 709h													
Test Code: 8260D-W													
Vinyl chloride	< 1.00	µg/L	SW8260D	0.205	1.00								
Surr: 1,2-Dichloroethane-d4	50.2	µg/L	SW8260D			50.00		100	80 - 136				
Surr: 4-Bromofluorobenzene	50.1	µg/L	SW8260D			50.00		100	85 - 121				
Surr: Dibromofluoromethane	52.2	µg/L	SW8260D			50.00		104	78 - 121				
Surr: Toluene-d8	51.2	µg/L	SW8260D			50.00		102	81 - 123				
Lab Sample ID: MB VOC-1 012721A Date Analyzed: 01/27/2021 624h													
Test Code: 8260D-W													
Tetrachloroethene	< 2.00	µg/L	SW8260D	0.518	2.00								
Surr: 1,2-Dichloroethane-d4	49.8	µg/L	SW8260D			50.00		99.6	80 - 136				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260D			50.00		99.6	85 - 121				
Surr: Dibromofluoromethane	51.8	µg/L	SW8260D			50.00		104	78 - 121				
Surr: Toluene-d8	51.0	µg/L	SW8260D			50.00		102	81 - 123				

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101579-001AMS Date Analyzed: 01/25/2021 935h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	21.3	µg/L	SW8260D	0.326	2.00	20.00	0	107	72 - 132				
1,1,2,2-Tetrachloroethane	17.5	µg/L	SW8260D	0.164	2.00	20.00	0	87.6	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	25.7	µg/L	SW8260D	2.00	2.00	20.00	0	128	54 - 174				
1,1,2-Trichloroethane	18.9	µg/L	SW8260D	0.143	2.00	20.00	0	94.6	88 - 126				
1,1-Dichloroethane	20.9	µg/L	SW8260D	1.43	2.00	20.00	0	105	78 - 142				
1,1-Dichloroethene	24.5	µg/L	SW8260D	0.844	2.00	20.00	0	123	37 - 144				
1,2,3-Trichlorobenzene	18.1	µg/L	SW8260D	1.28	2.00	20.00	0	90.4	60 - 136				
1,2,4-Trichlorobenzene	18.3	µg/L	SW8260D	1.53	2.00	20.00	0	91.4	45 - 138				
1,2-Dibromo-3-chloropropane	15.0	µg/L	SW8260D	0.295	5.00	20.00	0	74.8	71 - 129				
1,2-Dibromoethane	18.6	µg/L	SW8260D	0.248	2.00	20.00	0	92.8	77 - 124				
1,2-Dichlorobenzene	19.5	µg/L	SW8260D	0.155	2.00	20.00	0	97.3	70 - 130				
1,2-Dichloroethane	18.5	µg/L	SW8260D	0.144	2.00	20.00	0	92.7	76 - 132				
1,2-Dichloropropane	19.4	µg/L	SW8260D	0.282	2.00	20.00	0	97.0	81 - 135				
1,3-Dichlorobenzene	20.4	µg/L	SW8260D	0.191	2.00	20.00	0	102	71 - 139				
1,4-Dichlorobenzene	19.3	µg/L	SW8260D	0.229	2.00	20.00	0	96.6	67 - 138				
1,4-Dioxane	127	µg/L	SW8260D	21.5	50.0	200.0	0	63.3	42 - 171				
2-Butanone	21.6	µg/L	SW8260D	1.22	10.0	20.00	0	108	69 - 236				
2-Hexanone	13.1	µg/L	SW8260D	0.225	5.00	20.00	0	65.4	51 - 167				
4-Methyl-2-pentanone	14.3	µg/L	SW8260D	0.296	5.00	20.00	0	71.4	68 - 128				
Acetone	18.1	µg/L	SW8260D	2.76	10.0	20.00	0	90.4	36 - 198				
Benzene	21.6	µg/L	SW8260D	0.147	2.00	20.00	0	108	78 - 125				
Bromochloromethane	19.4	µg/L	SW8260D	0.712	2.00	20.00	0	97.0	80 - 130				
Bromodichloromethane	18.6	µg/L	SW8260D	0.138	2.00	20.00	0	93.0	85 - 123				
Bromoform	17.1	µg/L	SW8260D	0.151	2.00	20.00	0	85.5	65 - 122				
Bromomethane	17.0	µg/L	SW8260D	3.08	5.00	20.00	0	85.0	10 - 168				
Carbon disulfide	26.3	µg/L	SW8260D	0.823	2.00	20.00	0	131	34 - 178				
Carbon tetrachloride	21.2	µg/L	SW8260D	0.859	2.00	20.00	0	106	66 - 143				
Chlorobenzene	20.6	µg/L	SW8260D	0.154	2.00	20.00	0	103	74 - 126				

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Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101579-001AMS Date Analyzed: 01/25/2021 935h													
Test Code: 8260D-W													
Chloroethane	23.0	µg/L	SW8260D	1.37	2.00	20.00	0	115	45 - 154				
Chloroform	20.0	µg/L	SW8260D	0.166	2.00	20.00	0	99.8	74 - 120				
Chloromethane	18.2	µg/L	SW8260D	0.802	3.00	20.00	0	91.1	30 - 149				
cis-1,2-Dichloroethene	20.6	µg/L	SW8260D	0.188	2.00	20.00	0	103	70 - 132				
cis-1,3-Dichloropropene	18.9	µg/L	SW8260D	0.859	2.00	20.00	0	94.6	84 - 123				
Cyclohexane	21.7	µg/L	SW8260D	0.234	2.00	20.00	0	109	43 - 181				
Dibromochloromethane	18.2	µg/L	SW8260D	0.132	2.00	20.00	0	90.8	75 - 123				
Dichlorodifluoromethane	21.7	µg/L	SW8260D	0.430	2.00	20.00	0	108	10 - 165				
Ethylbenzene	21.4	µg/L	SW8260D	0.164	2.00	20.00	0	107	67 - 130				
Isopropylbenzene	21.3	µg/L	SW8260D	0.282	2.00	20.00	0	106	68 - 147				
m,p-Xylene	45.1	µg/L	SW8260D	0.575	2.00	40.00	0	113	69 - 142				
Methyl Acetate	25.4	µg/L	SW8260D	1.27	5.00	20.00	0	127	87 - 300				
Methyl tert-butyl ether	18.5	µg/L	SW8260D	1.60	2.00	20.00	0	92.4	58 - 135				
Methylcyclohexane	22.8	µg/L	SW8260D	0.569	2.00	20.00	0	114	55 - 151				
Methylene chloride	20.1	µg/L	SW8260D	0.381	2.00	20.00	0	101	65 - 154				
Naphthalene	15.4	µg/L	SW8260D	0.704	2.00	20.00	0	76.8	55 - 128				
o-Xylene	20.7	µg/L	SW8260D	0.153	2.00	20.00	0	104	70 - 142				
Styrene	18.7	µg/L	SW8260D	0.133	2.00	20.00	0	93.6	71 - 135				
Tetrachloroethene	44.6	µg/L	SW8260D	0.518	2.00	20.00	22.4	111	58 - 149				
Toluene	22.6	µg/L	SW8260D	0.285	2.00	20.00	1.01	108	69 - 129				
trans-1,2-Dichloroethene	23.0	µg/L	SW8260D	0.282	2.00	20.00	0	115	70 - 134				
trans-1,3-Dichloropropene	18.8	µg/L	SW8260D	0.772	2.00	20.00	0	94.2	63 - 132				
Trichloroethene	22.4	µg/L	SW8260D	0.180	2.00	20.00	0	112	72 - 136				
Trichlorofluoromethane	22.0	µg/L	SW8260D	0.375	2.00	20.00	0	110	59 - 152				
Vinyl chloride	21.2	µg/L	SW8260D	0.205	1.00	20.00	0	106	43 - 152				
Surr: 1,2-Dichloroethane-d4	47.2	µg/L	SW8260D			50.00		94.4	80 - 136				
Surr: 4-Bromofluorobenzene	49.1	µg/L	SW8260D			50.00		98.2	85 - 121				
Surr: Dibromofluoromethane	49.6	µg/L	SW8260D			50.00		99.2	78 - 132				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101579-001AMS Date Analyzed: 01/25/2021 935h													
Test Code: 8260D-W													
Surr: Toluene-d8	49.2	µg/L	SW8260D			50.00		98.5	81 - 123				
Lab Sample ID: 2101580-002AMS Date Analyzed: 01/26/2021 846h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	221	µg/L	SW8260D	3.26	20.0	200.0	0	110	72 - 132				
1,1,2,2-Tetrachloroethane	193	µg/L	SW8260D	1.64	20.0	200.0	0	96.6	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	255	µg/L	SW8260D	20.0	20.0	200.0	0	128	54 - 174				
1,1,2-Trichloroethane	204	µg/L	SW8260D	1.43	20.0	200.0	0	102	88 - 126				
1,1-Dichloroethane	219	µg/L	SW8260D	14.3	20.0	200.0	0	109	78 - 142				
1,1-Dichloroethene	249	µg/L	SW8260D	8.44	20.0	200.0	0	124	37 - 144				
1,2,3-Trichlorobenzene	187	µg/L	SW8260D	12.8	20.0	200.0	0	93.4	60 - 136				
1,2,4-Trichlorobenzene	187	µg/L	SW8260D	15.3	20.0	200.0	0	93.4	45 - 138				
1,2-Dibromo-3-chloropropane	168	µg/L	SW8260D	2.95	50.0	200.0	0	84.0	71 - 129				
1,2-Dibromoethane	198	µg/L	SW8260D	2.48	20.0	200.0	0	99.2	77 - 124				
1,2-Dichlorobenzene	202	µg/L	SW8260D	1.55	20.0	200.0	0	101	70 - 130				
1,2-Dichloroethane	205	µg/L	SW8260D	1.44	20.0	200.0	0	103	76 - 132				
1,2-Dichloropropane	203	µg/L	SW8260D	2.82	20.0	200.0	0	101	81 - 135				
1,3-Dichlorobenzene	212	µg/L	SW8260D	1.91	20.0	200.0	0	106	71 - 139				
1,4-Dichlorobenzene	201	µg/L	SW8260D	2.29	20.0	200.0	0	101	67 - 138				
1,4-Dioxane	1,500	µg/L	SW8260D	215	500	2,000	0	74.9	42 - 171				
2-Butanone	232	µg/L	SW8260D	12.2	100	200.0	0	116	69 - 236				
2-Hexanone	137	µg/L	SW8260D	2.25	50.0	200.0	0	68.4	51 - 167				
4-Methyl-2-pentanone	152	µg/L	SW8260D	2.96	50.0	200.0	0	76.2	68 - 128				
Acetone	186	µg/L	SW8260D	27.6	100	200.0	0	93.2	36 - 198				
Benzene	217	µg/L	SW8260D	1.47	20.0	200.0	0	109	78 - 125				
Bromochloromethane	212	µg/L	SW8260D	7.12	20.0	200.0	0	106	80 - 130				
Bromodichloromethane	200	µg/L	SW8260D	1.38	20.0	200.0	0	100	85 - 123				
Bromoform	191	µg/L	SW8260D	1.51	20.0	200.0	0	95.7	65 - 122				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101580-002AMS Date Analyzed: 01/26/2021 846h													
Test Code: 8260D-W													
Bromomethane	174	µg/L	SW8260D	30.8	50.0	200.0	0	87.1	10 - 168				
Carbon disulfide	265	µg/L	SW8260D	8.23	20.0	200.0	0	132	34 - 178				
Carbon tetrachloride	221	µg/L	SW8260D	8.59	20.0	200.0	0	110	66 - 143				
Chlorobenzene	214	µg/L	SW8260D	1.54	20.0	200.0	0	107	74 - 126				
Chloroethane	223	µg/L	SW8260D	13.7	20.0	200.0	0	112	45 - 154				
Chloroform	207	µg/L	SW8260D	1.66	20.0	200.0	0	103	74 - 120				
Chloromethane	178	µg/L	SW8260D	8.02	30.0	200.0	0	89.2	30 - 149				
cis-1,2-Dichloroethene	213	µg/L	SW8260D	1.88	20.0	200.0	0	107	70 - 132				
cis-1,3-Dichloropropene	207	µg/L	SW8260D	8.59	20.0	200.0	0	104	84 - 123				
Cyclohexane	198	µg/L	SW8260D	2.34	20.0	200.0	0	98.9	43 - 181				
Dibromochloromethane	196	µg/L	SW8260D	1.32	20.0	200.0	0	98.1	75 - 123				
Dichlorodifluoromethane	204	µg/L	SW8260D	4.30	20.0	200.0	0	102	10 - 165				
Ethylbenzene	220	µg/L	SW8260D	1.64	20.0	200.0	0	110	67 - 130				
Isopropylbenzene	216	µg/L	SW8260D	2.82	20.0	200.0	0	108	68 - 147				
m,p-Xylene	462	µg/L	SW8260D	5.75	20.0	400.0	0	116	69 - 142				
Methyl Acetate	285	µg/L	SW8260D	12.7	50.0	200.0	0	143	87 - 300				
Methyl tert-butyl ether	200	µg/L	SW8260D	16.0	20.0	200.0	0	100	58 - 135				
Methylcyclohexane	213	µg/L	SW8260D	5.69	20.0	200.0	0	106	55 - 151				
Methylene chloride	216	µg/L	SW8260D	3.81	20.0	200.0	0	108	65 - 154				
Naphthalene	162	µg/L	SW8260D	7.04	20.0	200.0	0	81.0	55 - 128				
o-Xylene	210	µg/L	SW8260D	1.53	20.0	200.0	0	105	70 - 142				
Styrene	194	µg/L	SW8260D	1.33	20.0	200.0	0	96.9	71 - 135				
Tetrachloroethene	238	µg/L	SW8260D	5.18	20.0	200.0	0	119	58 - 149				
Toluene	219	µg/L	SW8260D	2.85	20.0	200.0	0	110	69 - 129				
trans-1,2-Dichloroethene	236	µg/L	SW8260D	2.82	20.0	200.0	0	118	70 - 134				
trans-1,3-Dichloropropene	203	µg/L	SW8260D	7.72	20.0	200.0	0	102	63 - 132				
Trichloroethene	224	µg/L	SW8260D	1.80	20.0	200.0	0	112	72 - 136				
Trichlorofluoromethane	217	µg/L	SW8260D	3.75	20.0	200.0	0	108	59 - 152				

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101580-002AMS Date Analyzed: 01/26/2021 846h													
Test Code: 8260D-W													
Vinyl chloride	205	µg/L	SW8260D	2.05	10.0	200.0	0	103	43 - 152				
Surr: 1,2-Dichloroethane-d4	486	µg/L	SW8260D			500.0		97.2	80 - 136				
Surr: 4-Bromofluorobenzene	479	µg/L	SW8260D			500.0		95.7	85 - 121				
Surr: Dibromofluoromethane	513	µg/L	SW8260D			500.0		103	78 - 132				
Surr: Toluene-d8	499	µg/L	SW8260D			500.0		99.8	81 - 123				
Lab Sample ID: 2101641-001AMS Date Analyzed: 01/27/2021 827h													
Test Code: 8260D-W													
Tetrachloroethene	2,510	µg/L	SW8260D	51.8	200	2,000	0	126	58 - 149				
Surr: 1,2-Dichloroethane-d4	4,760	µg/L	SW8260D			5,000		95.2	80 - 136				
Surr: 4-Bromofluorobenzene	5,000	µg/L	SW8260D			5,000		100	85 - 121				
Surr: Dibromofluoromethane	4,980	µg/L	SW8260D			5,000		99.5	78 - 132				
Surr: Toluene-d8	5,020	µg/L	SW8260D			5,000		100	81 - 123				

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101579-001AMSD Date Analyzed: 01/25/2021 955h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	22.2	µg/L	SW8260D	0.326	2.00	20.00	0	111	72 - 132	21.3	4.18	35	
1,1,2,2-Tetrachloroethane	18.9	µg/L	SW8260D	0.164	2.00	20.00	0	94.4	68 - 140	17.5	7.47	35	
1,1,2-Trichloro-1,2,2-trifluoroethane	26.1	µg/L	SW8260D	2.00	2.00	20.00	0	130	54 - 174	25.7	1.43	35	
1,1,2-Trichloroethane	20.2	µg/L	SW8260D	0.143	2.00	20.00	0	101	88 - 126	18.9	6.70	35	
1,1-Dichloroethane	22.0	µg/L	SW8260D	1.43	2.00	20.00	0	110	78 - 142	20.9	4.85	35	
1,1-Dichloroethene	25.5	µg/L	SW8260D	0.844	2.00	20.00	0	127	37 - 144	24.5	3.76	35	
1,2,3-Trichlorobenzene	19.6	µg/L	SW8260D	1.28	2.00	20.00	0	97.9	60 - 136	18.1	7.97	35	
1,2,4-Trichlorobenzene	20.0	µg/L	SW8260D	1.53	2.00	20.00	0	100	45 - 138	18.3	9.09	35	
1,2-Dibromo-3-chloropropane	17.0	µg/L	SW8260D	0.295	5.00	20.00	0	84.8	71 - 129	15	12.5	35	
1,2-Dibromoethane	19.9	µg/L	SW8260D	0.248	2.00	20.00	0	99.7	77 - 124	18.6	7.12	35	
1,2-Dichlorobenzene	21.1	µg/L	SW8260D	0.155	2.00	20.00	0	106	70 - 130	19.5	8.09	35	
1,2-Dichloroethane	19.6	µg/L	SW8260D	0.144	2.00	20.00	0	98.0	76 - 132	18.5	5.61	35	
1,2-Dichloropropane	20.6	µg/L	SW8260D	0.282	2.00	20.00	0	103	81 - 135	19.4	6.00	35	
1,3-Dichlorobenzene	22.0	µg/L	SW8260D	0.191	2.00	20.00	0	110	71 - 139	20.5	7.53	35	
1,4-Dichlorobenzene	20.8	µg/L	SW8260D	0.229	2.00	20.00	0	104	67 - 138	19.3	7.48	35	
1,4-Dioxane	123	µg/L	SW8260D	21.5	50.0	200.0	0	61.5	42 - 171	127	2.91	35	
2-Butanone	24.0	µg/L	SW8260D	1.22	10.0	20.00	0	120	69 - 236	21.7	10.3	35	
2-Hexanone	14.0	µg/L	SW8260D	0.225	5.00	20.00	0	69.8	51 - 167	13.1	6.59	35	
4-Methyl-2-pentanone	15.5	µg/L	SW8260D	0.296	5.00	20.00	0	77.7	68 - 128	14.3	8.52	35	
Acetone	18.6	µg/L	SW8260D	2.76	10.0	20.00	0	92.8	36 - 198	18.1	2.57	35	
Benzene	22.5	µg/L	SW8260D	0.147	2.00	20.00	0	112	78 - 125	21.6	3.72	35	
Bromochloromethane	20.7	µg/L	SW8260D	0.712	2.00	20.00	0	104	80 - 130	19.4	6.53	35	
Bromodichloromethane	19.7	µg/L	SW8260D	0.138	2.00	20.00	0	98.4	85 - 123	18.6	5.64	35	
Bromoform	18.4	µg/L	SW8260D	0.151	2.00	20.00	0	92.1	65 - 122	17.1	7.43	35	
Bromomethane	17.8	µg/L	SW8260D	3.08	5.00	20.00	0	89.2	10 - 168	17	4.88	35	
Carbon disulfide	27.6	µg/L	SW8260D	0.823	2.00	20.00	0	138	34 - 178	26.3	4.79	35	
Carbon tetrachloride	22.3	µg/L	SW8260D	0.859	2.00	20.00	0	111	66 - 143	21.2	5.01	35	
Chlorobenzene	21.7	µg/L	SW8260D	0.154	2.00	20.00	0	108	74 - 126	20.6	5.40	35	

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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101579-001AMSD Date Analyzed: 01/25/2021 955h													
Test Code: 8260D-W													
Chloroethane	23.2	µg/L	SW8260D	1.37	2.00	20.00	0	116	45 - 154	23	0.867	35	
Chloroform	20.7	µg/L	SW8260D	0.166	2.00	20.00	0	104	74 - 120	20	3.83	35	
Chloromethane	18.9	µg/L	SW8260D	0.802	3.00	20.00	0	94.6	30 - 149	18.2	3.72	35	
cis-1,2-Dichloroethene	21.8	µg/L	SW8260D	0.188	2.00	20.00	0	109	70 - 132	20.6	5.43	35	
cis-1,3-Dichloropropene	19.9	µg/L	SW8260D	0.859	2.00	20.00	0	99.3	84 - 123	18.9	4.90	35	
Cyclohexane	22.1	µg/L	SW8260D	0.234	2.00	20.00	0	111	43 - 181	21.7	1.87	35	
Dibromochloromethane	19.7	µg/L	SW8260D	0.132	2.00	20.00	0	98.4	75 - 123	18.2	7.98	35	
Dichlorodifluoromethane	22.4	µg/L	SW8260D	0.430	2.00	20.00	0	112	10 - 165	21.7	3.00	35	
Ethylbenzene	22.4	µg/L	SW8260D	0.164	2.00	20.00	0	112	67 - 130	21.4	4.30	35	
Isopropylbenzene	22.4	µg/L	SW8260D	0.282	2.00	20.00	0	112	68 - 147	21.3	4.81	35	
m,p-Xylene	47.6	µg/L	SW8260D	0.575	2.00	40.00	0	119	69 - 142	45.1	5.33	35	
Methyl Acetate	26.4	µg/L	SW8260D	1.27	5.00	20.00	0	132	87 - 300	25.4	3.79	35	
Methyl tert-butyl ether	19.9	µg/L	SW8260D	1.60	2.00	20.00	0	99.7	58 - 135	18.5	7.55	35	
Methylcyclohexane	22.9	µg/L	SW8260D	0.569	2.00	20.00	0	114	55 - 151	22.8	0.570	35	
Methylene chloride	20.9	µg/L	SW8260D	0.381	2.00	20.00	0	105	65 - 154	20.1	3.94	35	
Naphthalene	17.2	µg/L	SW8260D	0.704	2.00	20.00	0	86.2	55 - 128	15.4	11.6	35	
o-Xylene	22.1	µg/L	SW8260D	0.153	2.00	20.00	0	110	70 - 142	20.7	6.30	35	
Styrene	19.7	µg/L	SW8260D	0.133	2.00	20.00	0	98.3	71 - 135	18.7	4.85	35	
Tetrachloroethene	47.2	µg/L	SW8260D	0.518	2.00	20.00	22.4	124	58 - 149	44.6	5.70	35	
Toluene	23.6	µg/L	SW8260D	0.285	2.00	20.00	1.01	113	69 - 129	22.6	4.29	35	
trans-1,2-Dichloroethene	24.0	µg/L	SW8260D	0.282	2.00	20.00	0	120	70 - 134	23	4.17	35	
trans-1,3-Dichloropropene	20.0	µg/L	SW8260D	0.772	2.00	20.00	0	99.9	63 - 132	18.8	5.87	35	
Trichloroethene	23.4	µg/L	SW8260D	0.180	2.00	20.00	0	117	72 - 136	22.4	4.19	35	
Trichlorofluoromethane	22.4	µg/L	SW8260D	0.375	2.00	20.00	0	112	59 - 152	22	1.49	35	
Vinyl chloride	22.4	µg/L	SW8260D	0.205	1.00	20.00	0	112	43 - 152	21.2	5.41	35	
Surr: 1,2-Dichloroethane-d4	48.5	µg/L	SW8260D			50.00		97.0	80 - 136				
Surr: 4-Bromofluorobenzene	51.0	µg/L	SW8260D			50.00		102	85 - 121				
Surr: Dibromofluoromethane	50.6	µg/L	SW8260D			50.00		101	78 - 132				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101579-001AMSD Date Analyzed: 01/25/2021 955h													
Test Code: 8260D-W													
Surr: Toluene-d8	50.5	µg/L	SW8260D			50.00		101	81 - 123				
Lab Sample ID: 2101580-002AMSD Date Analyzed: 01/26/2021 905h													
Test Code: 8260D-W													
1,1,1-Trichloroethane	228	µg/L	SW8260D	3.26	20.0	200.0	0	114	72 - 132	221	3.08	35	
1,1,2,2-Tetrachloroethane	202	µg/L	SW8260D	1.64	20.0	200.0	0	101	68 - 140	193	4.31	35	
1,1,2-Trichloro-1,2,2-trifluoroethane	266	µg/L	SW8260D	20.0	20.0	200.0	0	133	54 - 174	255	3.96	35	
1,1,2-Trichloroethane	210	µg/L	SW8260D	1.43	20.0	200.0	0	105	88 - 126	204	2.61	35	
1,1-Dichloroethane	228	µg/L	SW8260D	14.3	20.0	200.0	0	114	78 - 142	219	4.07	35	
1,1-Dichloroethene	261	µg/L	SW8260D	8.44	20.0	200.0	0	131	37 - 144	249	4.86	35	
1,2,3-Trichlorobenzene	198	µg/L	SW8260D	12.8	20.0	200.0	0	98.8	60 - 136	187	5.57	35	
1,2,4-Trichlorobenzene	194	µg/L	SW8260D	15.3	20.0	200.0	0	96.9	45 - 138	187	3.73	35	
1,2-Dibromo-3-chloropropane	174	µg/L	SW8260D	2.95	50.0	200.0	0	87.2	71 - 129	168	3.74	35	
1,2-Dibromoethane	207	µg/L	SW8260D	2.48	20.0	200.0	0	104	77 - 124	199	4.39	35	
1,2-Dichlorobenzene	209	µg/L	SW8260D	1.55	20.0	200.0	0	105	70 - 130	202	3.65	35	
1,2-Dichloroethane	208	µg/L	SW8260D	1.44	20.0	200.0	0	104	76 - 132	205	1.26	35	
1,2-Dichloropropane	213	µg/L	SW8260D	2.82	20.0	200.0	0	106	81 - 135	203	4.72	35	
1,3-Dichlorobenzene	217	µg/L	SW8260D	1.91	20.0	200.0	0	108	71 - 139	212	2.38	35	
1,4-Dichlorobenzene	210	µg/L	SW8260D	2.29	20.0	200.0	0	105	67 - 138	201	4.23	35	
1,4-Dioxane	1,670	µg/L	SW8260D	215	500	2,000	0	83.7	42 - 171	1500	11.1	35	
2-Butanone	246	µg/L	SW8260D	12.2	100	200.0	0	123	69 - 236	232	5.97	35	
2-Hexanone	146	µg/L	SW8260D	2.25	50.0	200.0	0	73.2	51 - 167	137	6.71	35	
4-Methyl-2-pentanone	161	µg/L	SW8260D	2.96	50.0	200.0	0	80.3	68 - 128	152	5.31	35	
Acetone	193	µg/L	SW8260D	27.6	100	200.0	0	96.5	36 - 198	186	3.43	35	
Benzene	225	µg/L	SW8260D	1.47	20.0	200.0	0	113	78 - 125	217	3.62	35	
Bromochloromethane	220	µg/L	SW8260D	7.12	20.0	200.0	0	110	80 - 130	212	4.03	35	
Bromodichloromethane	206	µg/L	SW8260D	1.38	20.0	200.0	0	103	85 - 123	200	2.76	35	
Bromoform	198	µg/L	SW8260D	1.51	20.0	200.0	0	99.2	65 - 122	191	3.54	35	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101580-002AMSD Date Analyzed: 01/26/2021 905h													
Test Code: 8260D-W													
Bromomethane	175	µg/L	SW8260D	30.8	50.0	200.0	0	87.7	10 - 168	174	0.686	35	
Carbon disulfide	277	µg/L	SW8260D	8.23	20.0	200.0	0	139	34 - 178	265	4.57	35	
Carbon tetrachloride	228	µg/L	SW8260D	8.59	20.0	200.0	0	114	66 - 143	221	3.43	35	
Chlorobenzene	221	µg/L	SW8260D	1.54	20.0	200.0	0	110	74 - 126	214	3.03	35	
Chloroethane	239	µg/L	SW8260D	13.7	20.0	200.0	0	119	45 - 154	223	6.76	35	
Chloroform	214	µg/L	SW8260D	1.66	20.0	200.0	0	107	74 - 120	207	3.75	35	
Chloromethane	186	µg/L	SW8260D	8.02	30.0	200.0	0	93.1	30 - 149	178	4.28	35	
cis-1,2-Dichloroethene	229	µg/L	SW8260D	1.88	20.0	200.0	0	115	70 - 132	213	7.19	35	
cis-1,3-Dichloropropene	214	µg/L	SW8260D	8.59	20.0	200.0	0	107	84 - 123	207	3.13	35	
Cyclohexane	208	µg/L	SW8260D	2.34	20.0	200.0	0	104	43 - 181	198	4.79	35	
Dibromochloromethane	205	µg/L	SW8260D	1.32	20.0	200.0	0	102	75 - 123	196	4.19	35	
Dichlorodifluoromethane	217	µg/L	SW8260D	4.30	20.0	200.0	0	109	10 - 165	204	6.51	35	
Ethylbenzene	227	µg/L	SW8260D	1.64	20.0	200.0	0	113	67 - 130	220	3.27	35	
Isopropylbenzene	224	µg/L	SW8260D	2.82	20.0	200.0	0	112	68 - 147	217	3.45	35	
m,p-Xylene	478	µg/L	SW8260D	5.75	20.0	400.0	0	119	69 - 142	462	3.34	35	
Methyl Acetate	295	µg/L	SW8260D	12.7	50.0	200.0	0	147	87 - 300	285	3.28	35	
Methyl tert-butyl ether	206	µg/L	SW8260D	16.0	20.0	200.0	0	103	58 - 135	200	2.96	35	
Methylcyclohexane	223	µg/L	SW8260D	5.69	20.0	200.0	0	111	55 - 151	213	4.45	35	
Methylene chloride	221	µg/L	SW8260D	3.81	20.0	200.0	0	111	65 - 154	217	2.15	35	
Naphthalene	170	µg/L	SW8260D	7.04	20.0	200.0	0	85.2	55 - 128	162	5.00	35	
o-Xylene	220	µg/L	SW8260D	1.53	20.0	200.0	0	110	70 - 142	210	4.60	35	
Styrene	200	µg/L	SW8260D	1.33	20.0	200.0	0	100	71 - 135	194	3.20	35	
Tetrachloroethene	243	µg/L	SW8260D	5.18	20.0	200.0	0	121	58 - 149	238	1.95	35	
Toluene	226	µg/L	SW8260D	2.85	20.0	200.0	0	113	69 - 129	219	2.92	35	
trans-1,2-Dichloroethene	246	µg/L	SW8260D	2.82	20.0	200.0	0	123	70 - 134	236	4.11	35	
trans-1,3-Dichloropropene	207	µg/L	SW8260D	7.72	20.0	200.0	0	104	63 - 132	203	1.80	35	
Trichloroethene	233	µg/L	SW8260D	1.80	20.0	200.0	0	116	72 - 136	224	3.94	35	
Trichlorofluoromethane	227	µg/L	SW8260D	3.75	20.0	200.0	0	114	59 - 152	217	4.55	35	

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Kyle F. Gross
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QC SUMMARY REPORT

Client: Applied Geotechnical
Lab Set ID: 2101579
Project: Forseys Cleaners Additional MW's / 1210017

Contact: Joe DeGooyer
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2101580-002AMSD Date Analyzed: 01/26/2021 905h													
Test Code: 8260D-W													
Vinyl chloride	220	µg/L	SW8260D	2.05	10.0	200.0	0	110	43 - 152	205	6.92	35	
Surr: 1,2-Dichloroethane-d4	498	µg/L	SW8260D			500.0		99.7	80 - 136				
Surr: 4-Bromofluorobenzene	493	µg/L	SW8260D			500.0		98.6	85 - 121				
Surr: Dibromofluoromethane	518	µg/L	SW8260D			500.0		104	78 - 132				
Surr: Toluene-d8	507	µg/L	SW8260D			500.0		101	81 - 123				
Lab Sample ID: 2101641-001AMSD Date Analyzed: 01/27/2021 847h													
Test Code: 8260D-W													
Tetrachloroethene	2,470	µg/L	SW8260D	51.8	200	2,000	0	124	58 - 149	2510	1.65	35	
Surr: 1,2-Dichloroethane-d4	4,720	µg/L	SW8260D			5,000		94.5	80 - 136				
Surr: 4-Bromofluorobenzene	4,840	µg/L	SW8260D			5,000		96.9	85 - 121				
Surr: Dibromofluoromethane	4,980	µg/L	SW8260D			5,000		99.6	78 - 132				
Surr: Toluene-d8	4,980	µg/L	SW8260D			5,000		99.5	81 - 123				

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2 Day Rush

American West Analytical Laboratories

REVISED: 1-25-21

Added Trip Blank - DB

Rpt Emailed: UL

WORK ORDER Summary

Work Order: **2101579** Page 1 of 1

Client: Applied Geotechnical — Due Date: 1/27/2021

Client ID: APP100 — **Contact:** Joe DeGooyer

Project: **Forseys Cleaners Additional MW's / 1210017** — **QC Level:** II+ — WO Type: Standard

Comments: 2 Day Rush (after 4:00 p.m.); QC 2+. 1-25-20 - Added Trip Blank for analysis.; DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2101579-001A	**MW-6**	1/22/2021 1220h	1/22/2021 1700h	**8260D-W**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4				
2101579-002A	**MW-6 - Duplicate**	1/22/2021 1230h	1/22/2021 1700h	**8260D-W**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4				
2101579-003A	**MW-7**	1/22/2021 1340h	1/22/2021 1700h	**8260D-W**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4				
2101579-004A	**MW-8**	1/22/2021 1410h	1/22/2021 1700h	**8260D-W**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4				
2101579-005A	**MW-9**	1/22/2021 1505h	1/22/2021 1700h	**8260D-W**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4				
2101579-006A	**MW-10**	1/22/2021 1550h	1/22/2021 1700h	**8260D-W**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4				
2101579-007A	**Trip Blank**	1/22/2021 1700h	1/22/2021 1700h	**8260D-W**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4				

Printed: 1/25/2021 LABORATORY CHECK: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ LUO ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

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CHAIN OF CUSTODY

2101579
AWAL Lab Sample Set #

Page ____ of ____

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

QC Level: 1 2 (2+) 3 3+

Turn Around Time: 1 (2) 3 4 5 Stnd

DB 1/22/20

Rush sets received after **4:00 pm** are considered received on the next business day.

Due Date: 1/27/20

Unless other arrangements have been made, signed reports will be emailed by **5:00 pm** on the day they are due.

Client: Applied Geotechnical Engineering Consultants
Address: 600 West Sandy Parkway
City, State, Zip: Sandy UTAH 84070
Contact: Joe DeGrooner
Phone #: 801-566-6399 Cell #: 801-651-5899
E-mail: joed@agecinc.com
Project Name: Forsens Cleaners Additional MW's
Project #: 121017
PO #:
Sampler Name:

- ☐ Report down to the MDL
- ☐ Include EDD:
- ☐ Lab Filter for:
- ☐ Field Filtered For:

For Compliance With:
- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ Non-Compliance
- ☐ Other:

Laboratory Use Only

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N A
4 Unbroken on Sample Y N NA

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 4.9 °C
4 Received Intact Y N
5 Properly Preserved Y N Checked at bench
6 Received Within Holding Times Y N

Sample Labels and COC Record Match? Y N

	Sample Site ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Total 1,1 DCE's										Known Hazards & Sample Comments
1	MW-6	1/22/21	12:20	3	W	/										
2	MW-6 Duplicate	1/22/21	12:30	3	W	/										
3	MW-7	1/22/21	1:40	3	W	/										
4	MW-8	1/22/21	2:10	3	W	/										
5	MW-9	1/22/21	3:05	3	W	/										
6	MW-10	1/22/21	3:50	3	W	/										
7	Unmarked Sample															Hold
8	Trip Blank (per Joe DeGrooyer - DB 1/20/21)	1/22/21				X										
9																
10																
11																
12																
13																
14																
15																

Relinquished by: Signature	Joseph R DeGrooyer	Date: 1/22/21	Received by: Signature: Denise Brown
Print Name:	Joseph R DeGrooyer	Time: 17:00	Print Name: Denise Brown
Relinquished by: Signature		Date:	Received by: Signature
Print Name:		Time:	Print Name:
Relinquished by: Signature		Date:	Received by: Signature
Print Name:		Time:	Print Name:

Date: 1/22/21	Time: 17:00	
Date:	Time:	
Date:	Time:	

Special Instructions:

By signing this Chain of Custody you are agreeing to permit AWAL to subcontract any analyses not normally performed at AWAL.

REV 2/7/2020