



February 4, 2019

Mr. Robert Corcoran
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Eastern Remedial Action
625 Broadway
Albany, NY 12233-7015

Re: Fairchild Republic Main Plant Site,
Town of Babylon, Suffolk County Site No. 1-52-130

Dear Mr. Corcoran,

Henningson, Durham, & Richardson Architecture & Engineering P. C. (HDR), as a successor to Malcolm Pirnie, Inc., was retained by The Fairchild Liquidating Trust to collect groundwater samples from 11 monitoring wells at the Fairchild Republic Main Plant Site (MPS) in East Farmingdale, New York (Figure 1) in accordance with the Revised Draft Operation, Maintenance, and Monitoring Plan (OM&M) (Malcolm Pirnie, 2006). Groundwater samples were collected from the Remediation Phase Monitoring wells in October 2018 according to the sampling procedures outlined in the OM&M Plan (Malcolm Pirnie, 2006). The objectives of the groundwater sampling event are to determine the extent of Volatile Organic Compounds (VOCs) in groundwater at the MPS; to monitor the overall effectiveness of the groundwater remedy; and to characterize the potential presence of emerging contaminants including 1,4-dioxane, perfluorooctanoic acid (PFOA), and perfluorooctane sulfonic acid (PFOS) and associated compounds.

VOCs in Groundwater

Groundwater samples were collected in 11 wells from October 26 to October 30, 2018. Groundwater sample collection logs are included in Appendix A. Groundwater samples were sent to Pace Laboratory, in Melville, New York, which is a New York State certified laboratory, for VOCs analyses by United States Environmental Protection Agency (USEPA) Method 8260B. The results are located in Attachment B.

The results show that 11 wells (MW-37I, MW-41, MW-42I, MW-42D, MW-43I, MW-46I, MW-49I, MW-49D, MW-50, S-66133, and S-66134) contained detectable concentrations of chlorinated VOCs. The concentration of total chlorinated VOCs in each well is shown on Table 1 and on Figure 2. Figure 3 shows the configuration of the chlorinated VOC plume and changes in total chlorinated VOC concentrations with time in each well at the MPS. A comparison of the size and concentration of chlorinated VOC in 2018 (Figure 3) to 2013 (Figure 4), shows that the core of the plume containing chlorinated VOCs over 1,000 ug/l and the area containing chlorinated VOCs over 100 ug/l has been significantly reduced in size.

Chlorinated VOCs in a groundwater sample collected from MW-50 (1,116 ug/l) is down-gradient of the pumping well PW-1 and the capture zone created by the MPS remediation system. The concentration of TVOCs in groundwater collected from all nine intermediate zone monitoring wells within the MPS plume have significantly (>89%) decreasing from 2004 to 2018 as shown on Table 2. These significant decreases in TVOC concentration when combined with the significant decrease in TVOC concentration of the influent groundwater to the treatment plant (2,000 to 1,000 ug/l shown on Figure 5) suggest the stable TVOC concentrations in MW-50 could be from a different off-site source.

Groundwater Remedy Effectiveness

Routine OM&M was completed on the pump and treat system. The routine OM&M includes: responding to alarm conditions, recording and adjusting system operating parameters, collecting influent and effluent samples, and any maintenance activities necessary to keep the system operational. The treatment plant currently operates at 200 gpm.

Roughly 50 million gallons of water were extracted, treated, and discharged at the MPS in 2018. The groundwater remediation system has extracted and remediated more than one billion gallons of groundwater and removed over 14,500 pounds (1,200 gallons) of total VOCs since 2005.

Groundwater samples were collected monthly from the treatment system during this reporting period to monitor the effectiveness of the treatment system and to document compliance with NYSDEC discharge requirements. The groundwater samples were analyzed for:

- VOCs (8260B) (including Freon 113)
- Total Dissolved Solids (TDS)
- pH
- Total Iron

- Total Manganese
- Total Zinc

The VOCs results (Table 3) show that the groundwater discharge to the infiltration basins met discharge standards and was in compliance with the NYSDEC discharge requirements in 2018. The results are included in Appendix C.

The concentration of total VOCs in influent water samples was plotted against time to track the influent groundwater quality (Figure 5). Between May 2005 and December 2009 the influent concentration of total VOCs fluctuated between 2,000 - 3000 µg/L showing the remediation system was successfully removing significant concentrations of VOCs from the aquifer. From 2009 to 2018, the influent concentration of VOCs has decreased from 2,000 to 610 ug/l. These data show that the groundwater remedy is effective at removing a significant amount of VOCs from the aquifer.

The progress of the groundwater remedy can be demonstrated by evaluating two datasets:

1. The average VOC concentration in the plume monitoring wells; and
2. Comparing to total mass removed to the initial estimate of the total mass.

The progress of the groundwater remedy can be shown by reviewing the average concentration of VOCs in performance monitoring wells. The annual groundwater sampling results (2005 to 2018) are summarized on Table 2. The 2018 data can be compared with the results of previous year's data to show the progress of the groundwater remediation. The data on Table 2 show the average concentration has steadily decreased in concentration from 1,030 ug/l in 2004 (baseline) to 118 ug/l in 2018. These data are also presented graphically (Figure 6) to show the steady decline in VOCs concentration of the plume. Given the straight-line logarithmic trend of the dataset, these data can be extrapolated to estimate the time to reach an action level. These data show that it will take approximately four years (2018-2022) for the average concentration in these wells to reach 100 ug/l. These data also show that roughly 89 percent (1,030 to 118 ug/l) of the VOC mass has been removed from the aquifer.

The progress of the groundwater remedy can also be shown by reviewing the influent VOC concentration to the treatment plant over the life of the remedy. This was completed by multiplying the total VOCs in the influent water to the treatment plant by the volume of water extracted to calculate the total mass removed during the reporting period (Figure 5). This calculation shows that 14,500 pounds of VOCs have been removed from the aquifer to date. Comparing this value to the

original estimate of the dissolved mass in-place of roughly 16,000 pounds of VOCs to the mass removed to date (14,500/16,000 pounds), shows that roughly 90 percent of the mass has been removed from the aquifer.

Emerging Contaminants

Groundwater samples were collected from four monitoring wells screened in the shallow water table aquifer at the Main Plant Site. The samples were collected using bladder pumps following PFAS/PFOA sampling protocols. A water sample was also collected from the influent line to the treatment plant. This sample was collected using the submersible pump installed in PW-2. The samples were analyzed by Test America (ELAP certified) for 21 PFAS analytes with a detection limit of 2 ng/L or parts per trillion. The samples were also analyzed for 1,4-dioxane with a detection limit of 0.28 ug/L.

The results are summarized on Table 4. The results show PFOS was detected in groundwater samples ranging from 18.7 to 70.5 ng/L or parts per trillion (ppt). PFOS was detected in the water sample from the influent pipe to the treatment plant at a concentration of 33.7 ng/L. PFOA was also detected in groundwater samples ranging from 24.3 to 117 ng/L. PFOA was also detected in the water sample collected from the influent pipe to the treatment system at a concentration of 28.4 ng/L. As of the preparation of this letter report, there is no promulgated Federal or State groundwater standard for PFOS/PFOA.

Groundwater samples were also analyzed for 1,4-dioxane. The results show 1,4-dioxane was detected in groundwater at concentrations ranging from 0.056 to 0.2 ug/L. 1,4-dioxane was also detected in the water sample collected from the influent pipe to the treatment system at a concentration of 3.7 ug/L. As of the preparation of this letter report, there is no promulgated Federal or State groundwater standard for 1,4-dioxane.

CONCLUSIONS

- The groundwater remedy is functioning properly and is successful at remediating the MPS plume.
- The groundwater remediation system removed approximately 14,500 pounds or 1,200 gallons of VOCs from the aquifer by December 2018.
- The influent VOC concentration to the treatment plant began to decrease in concentration from 2009 to 2018 showing the effectiveness of the groundwater remedy.

- The average concentration VOCs in groundwater collected from the performance monitoring wells has decreased from 1,030 to 118 ug/l during 14 years of operation. The average concentration of VOCs is projected to decrease below 100 ug/l in four years (2022).
- All of the water discharged to the infiltration basins met the NYSDEC groundwater effluent limitations.
- The groundwater remediation should achieve the goals of the Record of Decision, as amended, in approximately four years.
- PFOS/PFOA was detected in groundwater samples ranging from 18.7 to 117 ng/L. PFOS/PFOA was detected in the water entering the treatment plant at 33.7/28.4 ng/L.
- 1,4-dioxane was detected in groundwater ranging from 0.056 to 0.2 ug/L. 1,4-dioxane was detected in the water entering the treatment plant at 3.7 ug/L.

Sincerely,

Henningson, Durham, & Richardson Architecture & Engineering P. C.



Daniel J. St. Germain, PG (NY #78)

Project Manager

Table 1
Volatile Organic Compounds in Groundwater
FAIRCHILD MAIN PLANT SITE
MAIRROLL, INC.
EAST FARMINGDALE NEW YORK

Parameter	Units	MW-371 10/30/2018	MW-411 10/26/2018	MW-421 10/29/2018	MW-42D 10/29/2018	MW-431 10/29/2018	MW-461 10/30/2018	MW-491 10/26/2018	MW-49D 10/26/2018	MW-50 10/30/2018	S-66133 10/29/2018	S-66134 12/18/2017	TB-01 10/26/2018	TB-02 10/29/2018	TB-03 10/30/2018
1,1,1,2-Tetrachloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	7.7	ND	ND	ND	ND	ND	ND	ND	7.3	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	27.7	ND	ND	3.2	1.2	ND	3.4	ND	23.8	ND	2.7	ND	ND	ND
1,1-Dichloroethene	ug/L	18.3	ND	ND	ND	ND	1.4	ND	24.8	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	1.4	ND	ND	ND	ND	ND	ND	5.4	ND	ND	ND	ND	ND	ND
Bromobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/L	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	1.2	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND	ND	ND
Chloromethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/L	65.1	18.5	ND	ND	3.9	1.8	7.1	95.5	45.6	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ug/L	163	2.9	1.1	6.5	67.4	16.9	39.3	17.5	728	8.5	1.5	ND	ND	ND
Trichlorofluoromethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ug/L	10.4	ND	ND	ND	ND	ND	9.4	ND	16.6	ND	2.1	ND	ND	ND
Xylene (Total)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/L	274	5.7	ND	1.2	5.9	ND	151	13.6	269	4.6	ND	ND	ND	ND
cis-1,3-Dichloropropene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	9.2	ND	1.2	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL CVOCs		566.2	27.1	1.1	10.9	77.5	18.7	220.8	126.6	1116.3	13.1	4.8	0	0	0

TABLE 2
AVERAGE TOTAL CHLORINATED VOC CONCENTRATION
FAIRCHILD MAIN PLANT SITE
MAIROLL, INC.
EAST FARMINGDALE, NEW YORK

Well No.	Baseline Total CVOC Concentration (ug/L) June-04	Total VOC Concentration (ug/L) June-05	Total VOC Concentration (ug/L) June-06	Total VOC Concentration (ug/L) July-07	Total VOC Concentration (ug/L) July-08	Total VOC Concentration (ug/L) July-09	Total VOC Concentration (ug/L) August-10	Total VOC Concentration (ug/L) November-13	Total VOC Concentration (ug/L) September-15	Total VOC Concentration (ug/L) December-16	Total VOC Concentration (ug/L) December-17	Total VOC Concentration (ug/L) October-18
MW-41	1,123	367	198	110	122	97	57	109	42	40	37.0	27.1
MW-46I	222	143	128	103	95	2	66	71	19	41	29.7	18.7
MW-42I	20	23	10	9	5	11	20	2	108	1	1.3	1.1
MW-42D	62	71	32	45	39	40	46	60	36	26	21.5	10.9
S-66133	277	231	229	239	106	210	56	295	258	293	85.6	13.1
MW-43I	740	589	782	406	506	416	232	350	42	115	85.1	77.5
MW-49I	1,365	346	155	107	107	264	184	218	536	352	291	221
MW-49D	2,024	1,926	2,594	2,456	2,732	2373	1164	1014	394	216	230	127
MW-37I	3,437	2,817	1,986	1,676	1,813	1971	1448	821	346	558	451	566
Average	1,030	724	679	572	614	598	364	327	198	183	137	118

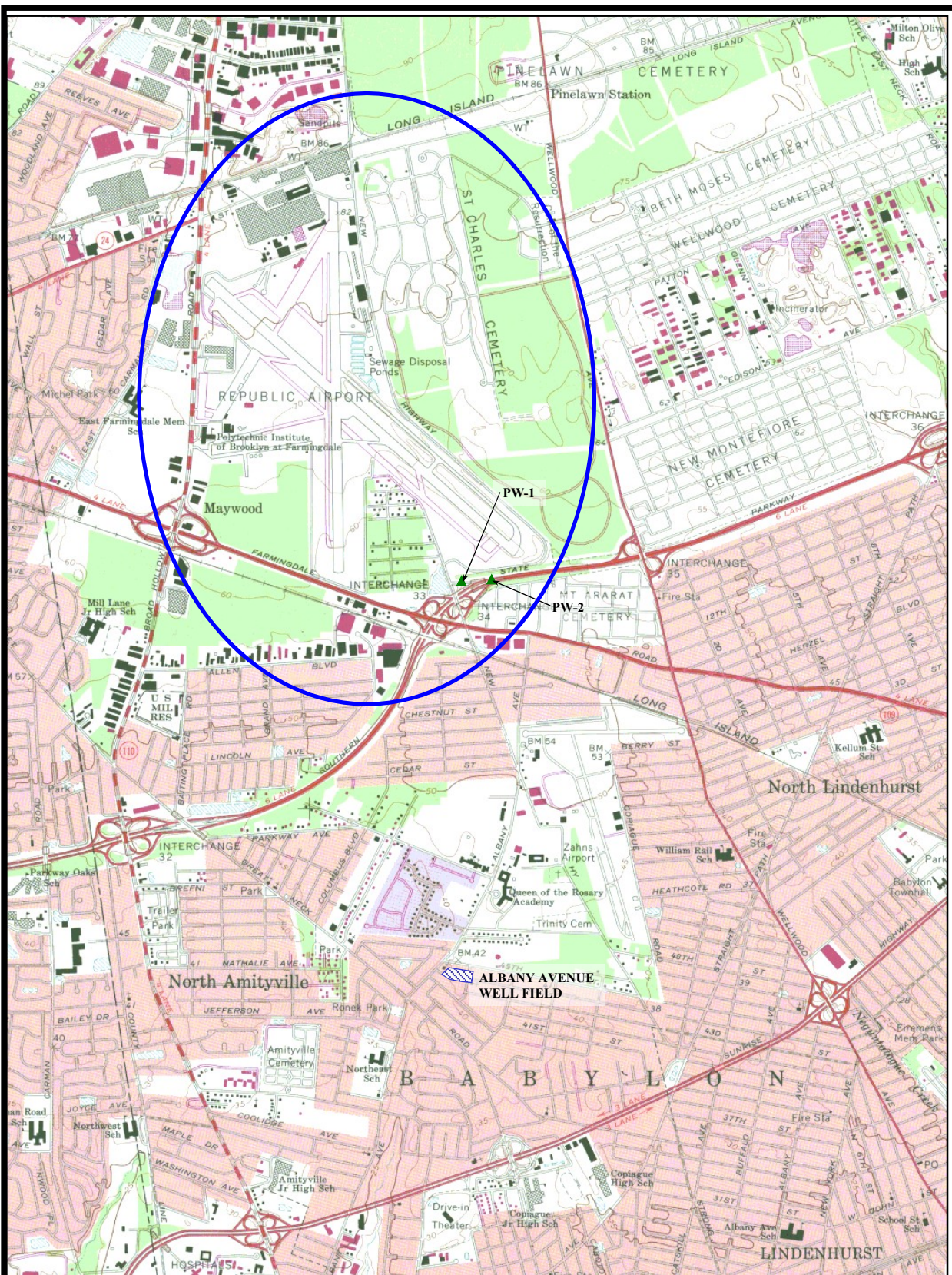
Note: Samples that contained CVOCs below
the MDL were given a value of 1

TABLE 3
EFFLUENT WATER QUALITY LABORATORY RESULTS
FAIRCHILD REPUBLIC MAIN PLANT SITE
MAIROLL, INC.
EAST FARMINGDALE, NY

Compound	EFF 2/14/2018	EFF 3/30/2018	EFF 5/25/2018	EFF 7/6/2018	EFF 8/29/2018	EFF 10/4/2018	EFF 11/13/2018
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene (v)	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene (v)	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (v)	ND	ND	ND	ND	ND	ND	ND
111-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
1112-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND
112-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
1122-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND
123-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
123-Trichloropropane	ND	ND	ND	ND	ND	ND	ND
124-Trichlorobenzene (v)	ND	ND	ND	ND	ND	ND	ND
124-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND
1245-Tetramethylbenz	ND	ND	ND	ND	ND	ND	ND
135-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
c-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND
Dibromochloropropane	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND
Freon 113	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND
Methylisobutylketone	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND
Naphthalene(v)	ND	ND	ND	ND	ND	ND	ND
o Xylene	ND	ND	ND	ND	ND	ND	ND
p Diethylbenzene	ND	ND	ND	ND	ND	ND	ND
p-Ethyltoluene	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND
t-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
t-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
ter-ButylMethylEther	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND

Table 4
PFAS, PFOA & 1,4 DIOXANE IN GROUNDWATER
FAIRCHILD MAIN PLANT SITE
MAIROLL, INC.
EAST FARMINGDALE NEW YORK

Sample Location: Total Depth of Well Sample Date: Field ID:			INFLUENT		MW-21S 30 10/25/2018 MW-21S-20181025		MW-21S (Duplicate) 30 10/25/2018 BD-01-20181025		MW-43S 80 10/25/2018 MW-43S-20181025		MW-49S 30 10/24/2018 MW-49S-20181024		S-66157 54 10/25/2018 S-66157-20181025	
Constituent	CAS RN	Unit	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/l	19.6	U	20	U	19	U	18.1	U	19.3	U	19.3	U
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6	ng/l	19.6	U	20	U	19	U	18.1	U	19.3	U	19.3	U
Perfluorobutanesulfonic Acid	375-73-5	ng/l	2.19		4.22		4.02		2.19		2.83		1.58	J
Perfluorobutyric Acid (PFBA)	375-22-4	ng/l	10.3		80		79.3		11.7		66.2		34.7	
Perfluorodecane Sulfonic Acid	335-77-3	ng/l	1.96	U	2	U	1.9	U	0.81	J	1.93	U	1.93	U
Perfluorodecanoic Acid (PFDA)	335-76-2	ng/l	0.97	J	25.6		25.5		2.6		1.93		2.81	
Perfluorododecanoic Acid (PFDoA)	307-55-1	ng/l	1.96	U	2	U	1.9	U	1.81		1.45	J	1.93	U
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	ng/l	0.83	J	0.39	J	0.42	J	1.81	U	0.29	J	0.18	J
Perfluoroheptanoic Acid (PFHpA)	375-85-9	ng/l	10.4		44.9		44.5		15.5		48.3		86.8	
Perfluorohexanesulfonic Acid	355-46-4	ng/l	19.2		33.7		32.3		7.34		14.3		5.78	
Perfluorohexanoic Acid (PFHxA)	307-24-4	ng/l	13.2		97		94.1		11.4		164		61.8	
Perfluorononanoic Acid	375-95-1	ng/l	22.4		260		240		34.6		24.1		17.7	
Perfluorooctane Sulfonamide (FOSA)	754-91-6	ng/l	1.96	U	2	U	1.9	U	1.81	U	1.93	U	1.93	U
Perfluorooctane Sulfonic Acid (PFOS)	1763-23-1	ng/l	33.7		70.5		73.8		34.9		19.1		18.7	
Perfluorooctanoic acid (PFOA)	335-67-1	ng/l	28.4		117		113		24.5		24.3		44.1	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/l	14.1		145		140		19.8		273		105	
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	ng/l	1.96	U	2	U	1.9	U	1.81	U	1.93	U	1.93	U
Perfluorotridcanoic Acid (PFTriA)	72629-94-8	ng/l	1.96	U	2	U	1.9	U	1.81	U	1.93	U	1.93	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/l	1.96	U	26.7		25.6		8.44		2.29		1.74	J
SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/l	19.6	U	2.99	J	3.44	J	18.1	U	19.3	U	19.3	U
SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2)	27619-97-2	ng/l	3.04	J	2.24	J	2.12	J	18.1	U	512		19.3	U
1,4-Dioxane	123-91-1	ug/l	3.7		0.058	J	0.2	U	0.056	J	0.2	U	0.2	U



LEGEND

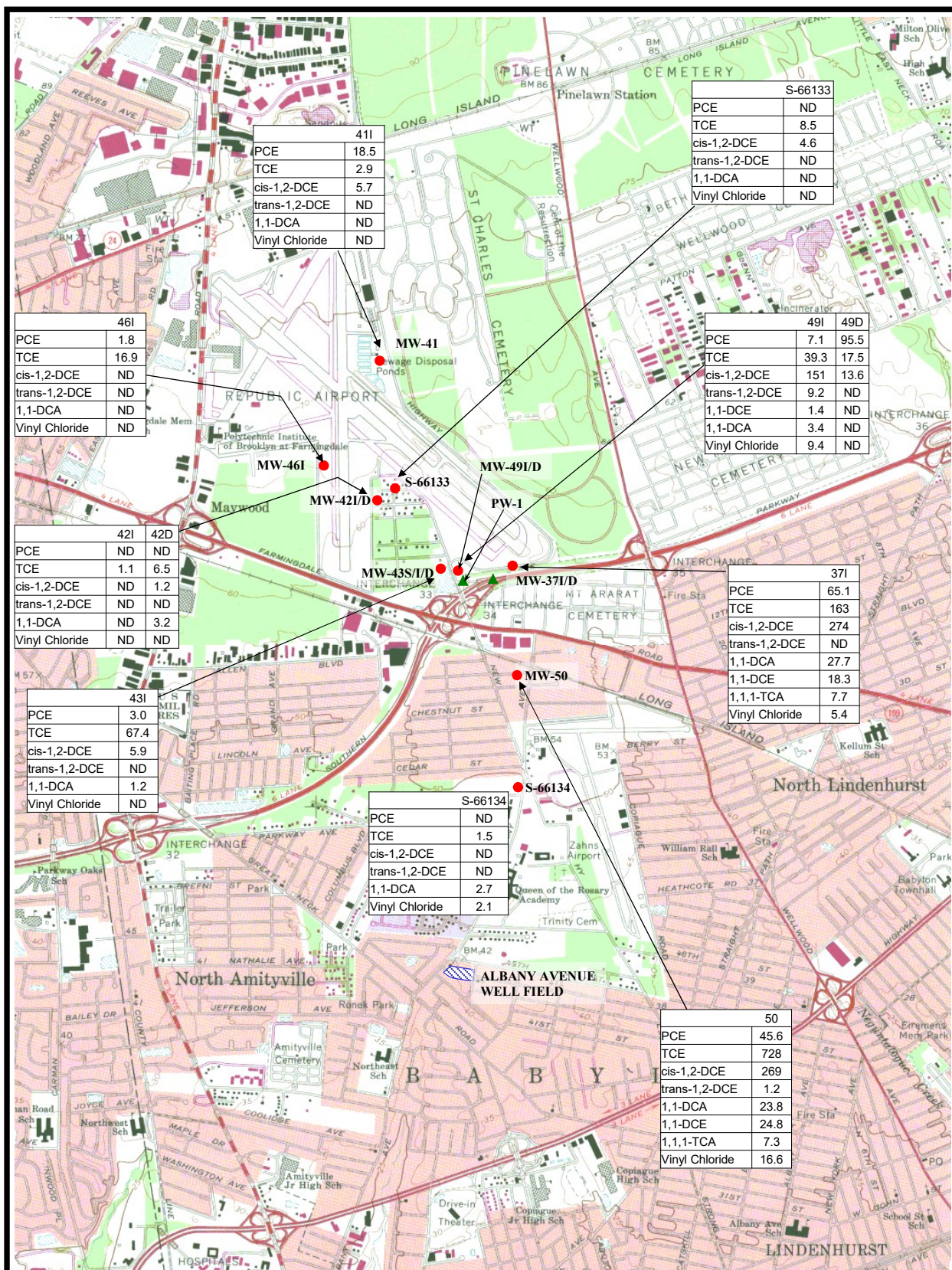
-  WELL FIELD
-  MONITORING WELL
-  RECOVERY WELL

0 2,000 4,000 Feet



SITE LOCATION
FAIRCHILD REPUBLIC MAIN PLANT SITE
 MAIROLL, INC
 EAST FARMINGDALE, NEW YORK

FIGURE 1



LEGEND

- WELL FIELD
- MONITORING WELL
- RECOVERY WELL
- ND NON DETECTION OF VOCs

All VOC Concentrations Reported in µg/L

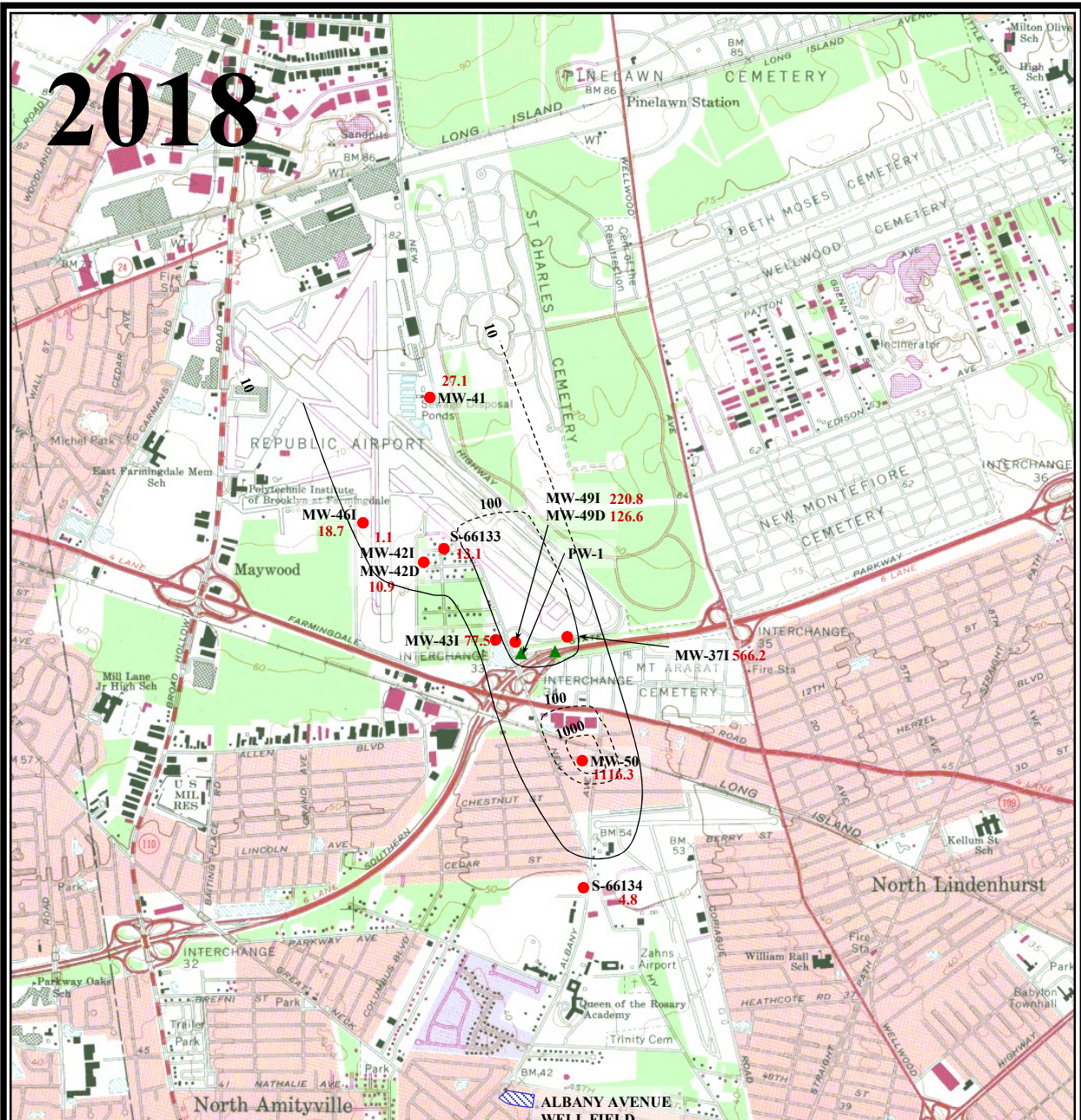
0 2,000 4,000 Feet



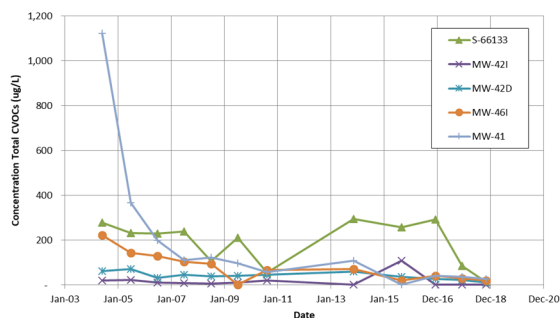
DISTRIBUTION OF CHLORINATED VOC'S IN GROUNDWATER – October 2018
FAIRCHILD REPUBLIC MAIN PLANT SITE
MAIROLL, INC
EAST FARMINGDALE, NEW YORK

FIGURE 2

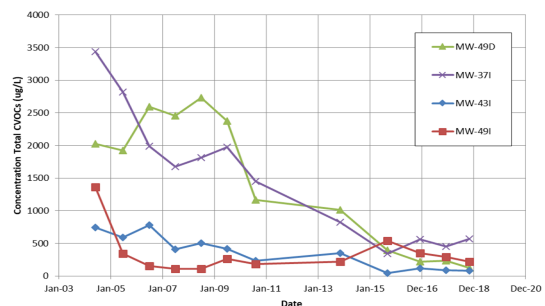
2018



Mid-Plume Monitoring Wells



Distal-Plume Monitoring Wells



LEGEND

- WELL FIELD
- MONITORING WELL
- RECOVERY WELL
- 4.8** TOTAL VOC ($\mu\text{g/L}$)

ISOCONCENTRATION CONTOUR (inferred where dashed)

100

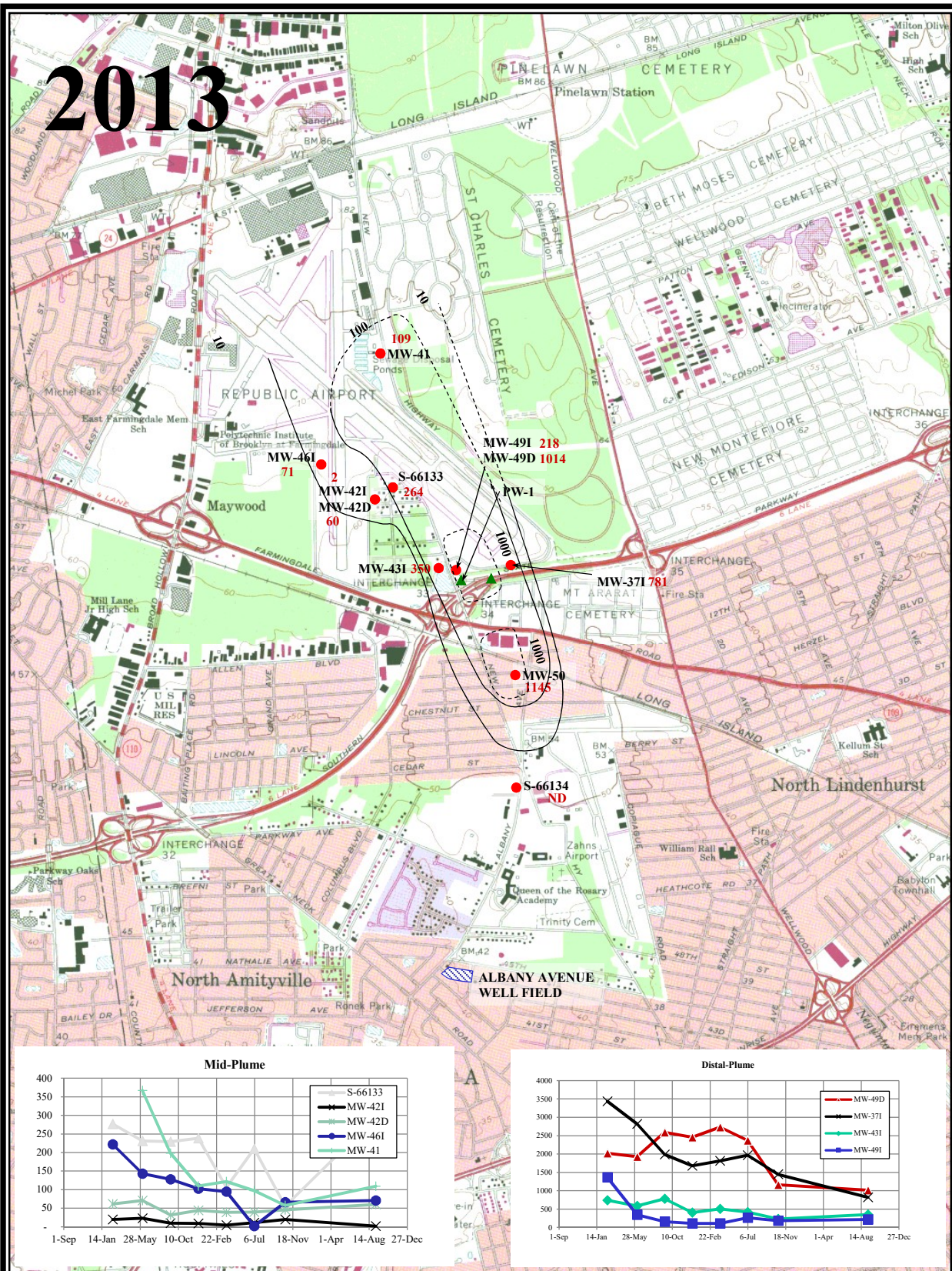
0 2,000 4,000 Feet



SITE-RELATED TOTAL CHLORINATED VOC'S, INTERMEDIATE ZONE – October 2018
FAIRCHILD REPUBLIC MAIN PLANT SITE
MAIROLL, INC
EAST FARMINGDALE, NEW YORK

FIGURE 3

2013



LEGEND

- WELL FIELD
- MONITORING WELL
- RECOVERY WELL
- 1157** TOTAL VOC (µg/L) (May include compounds at estimated ["J" qualifier] concentrations.

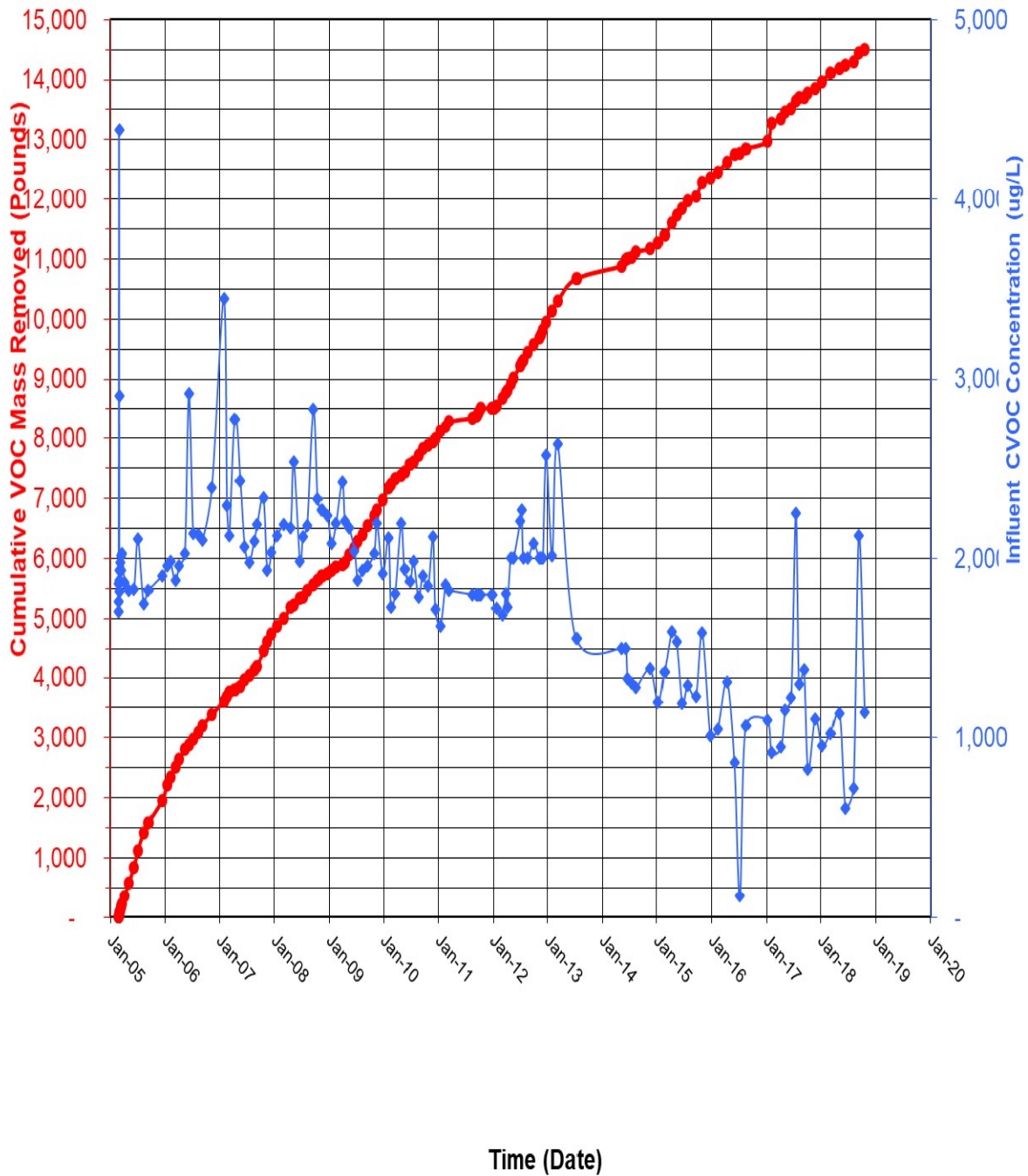
ISOCONCENTRATION CONTOUR (inferred where dashed) ——— 100
 *ALL VOC CONCENTRATIONS ARE ROUNDED TO NEAREST WHOLE NUMBER

0 2,000 4,000 Feet



SITE-RELATED TOTAL CHLORINATED VOC'S, INTERMEDIATE ZONE – November 2013
 FAIRCHILD REPUBLIC MAIN PLANT SITE
 MAIROLL, INC
 EAST FARMINGDALE, NEW YORK

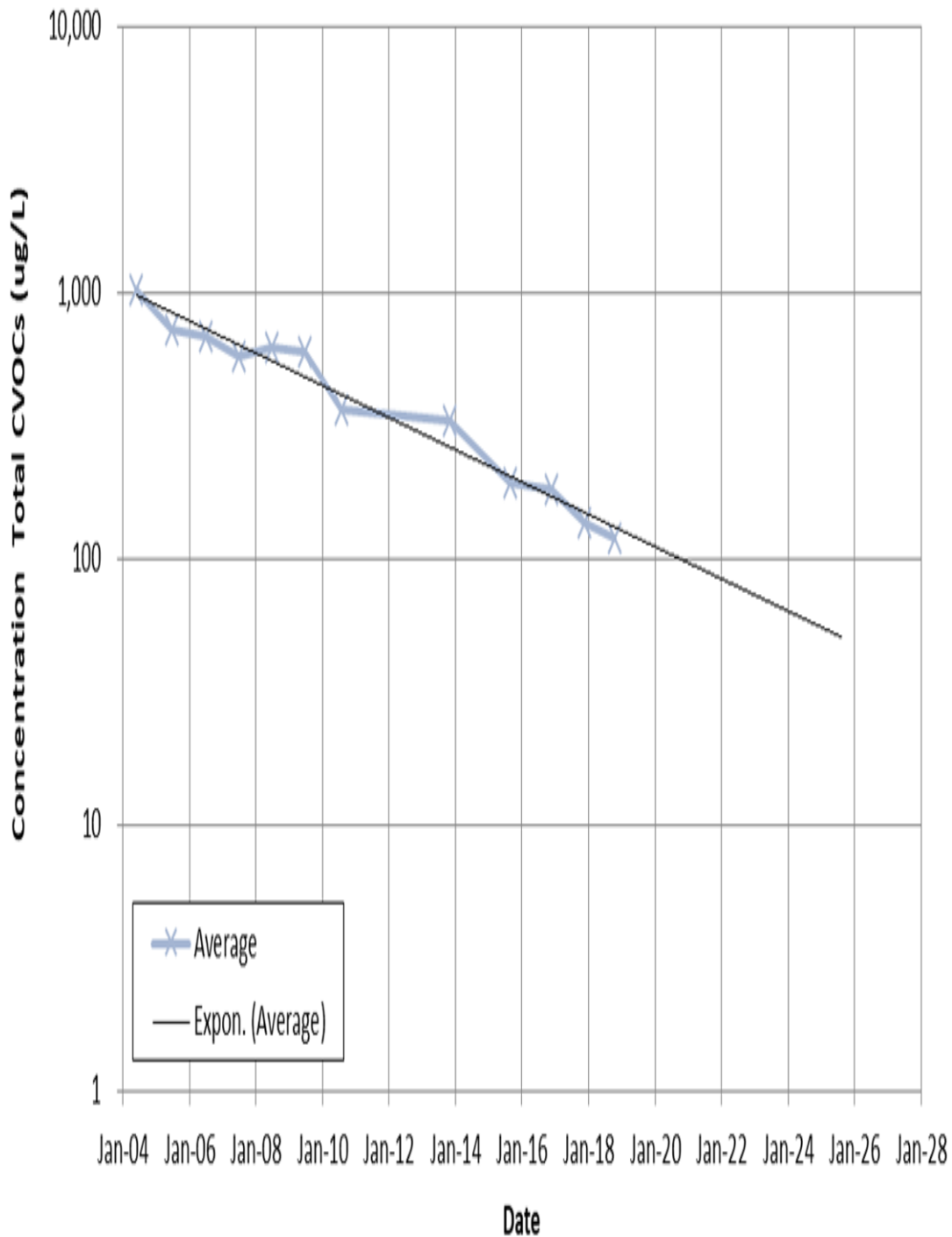
FIGURE 4



Groundwater Remediation System Performance
 FAIRCHILD REPUBLIC MAIN PLANT SITE
 MAIROLL, INC
 EAST FARMINGDALE, NEW YORK

FIGURE 5

Average Concentration in Monitoring Wells





1 International Boulevard, 10th Floor, Mahwah, NJ 07495-0027

GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004
PROJECT NAME: Fairchild
SITE LOCATION: East Farmingdale, NY

DATE: 10/24/18
SAMPLERS: MTP
KUM

SITE CONTACT: Dan St. Germain

WEATHER: 58°F, Sunny, Windy

WELL IDENTIFICATION NUMBER: MW-495

PERMIT:

WELL HEADSPACE READING: 0

PID MODEL/LAMP: MiniRae 3000

DEPTH TO WATER (Before Purging): 18.32

FEET FROM TOP OF CASING

WELL DEPTH: 30.00

FEET FROM TOP OF CASING

HEIGHT OF WATER IN WELL: 11.68

FEET

WATER IN ONE WELL VOLUME: 7.62

GALLONS

PURGE TIME (start/finish): 1408/1503

PURGE RATE: 200ml/min

WELL EVACUATION DEVICE: Inertial pump

SAMPLING TIME (start/finish): 1504/1515

SAMPLE RATE: 200 ml/min

SAMPLE COLLECTION DEVICE: Inertial pump

SAMPLE APPEARANCE: Clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1408	1418	1428	1438	1443	1448	1453	1458	1458	1503
pH (SU)	6.62	6.68	6.65	6.66	6.66	6.66	6.65	6.65	6.65	
specific conductivity (mS)	0.859	0.851	0.846	0.833	0.824	0.818	0.810	0.801	0.793	
turbidity (NTU's)	35.7	26.2	26.3	24.9	23.3	22.9	21.4	20.7	20.2	
dissolved oxygen (mg/l)	0.43	0.97	0.86	0.60	0.51	0.53	0.45	0.42	0.38	
temperature (degrees C)	16.06	16.01	15.94	15.94	15.81	15.87	15.39	15.30	15.22	
redox potential (mv)	214	235	237	240	242	244	247	247	249	
depth to water (feet)	18.32	18.36	18.36	18.36	18.36	18.35	18.36	18.36	18.36	
volume purged (gal or L)	0	2.0L	4.0L	6.0L	7.0L	8.0	9.0	10.0	11.0	

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: 8270D-SIM-AS-ID

PFC-IDA-(MOD)PFAS

LABORATORY: Test America

CONTACT: Dawn E. Crowell

Casing Diameter/Volume conversions	
(inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES:

4" well

**GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS**

PROJECT NUMBER: 10025227-004 DATE: 10/25/18
 PROJECT NAME: Farrchild SAMPLERS: KTP
 SITE LOCATION: East Farmingdale, NY KLM
 SITE CONTACT: Dan St. Germain WEATHER: 50°, sunny, windy

WELL IDENTIFICATION NUMBER: MW-215 PERMIT:
 WELL HEADSPACE READING: 0.6 PID MODEL/LAMP: Moss Rae 3000
 DEPTH TO WATER (Before Purging): 15.75 FEET FROM TOP OF CASING
 WELL DEPTH: 30' FEET FROM TOP OF CASING
 HEIGHT OF WATER IN WELL: 14.35 FEET
 WATER IN ONE WELL VOLUME: 9.30 GALLONS
 PURGE TIME (start/finish): 1011 / 1150 PURGE RATE: 200 mL/min
 WELL EVACUATION DEVICE: Intermittent pump
 SAMPLING TIME (start/finish): 1155 / 1210 SAMPLE RATE: 200 mL/min
 SAMPLE COLLECTION DEVICE: Intermittent pump
 SAMPLE APPEARANCE: Clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1011	1021	1031	1045	1055	1105	1115	1125	1135	1140
pH (SU)	5.92	6.23	5.66	6.06	5.82	5.84	5.79	5.71	5.80	5.81
specific conductivity (mS)	0.176	0.117	0.000	0.161	0.159	0.159	0.159	0.159	0.158	0.158
turbidity (NTU's)	95.4	52.0	270	60.0	34.4	29.3	26.0	20.7	15.7	14.7
dissolved oxygen (mg/l)	6.41	6.32	0.91	8.51	7.49	7.36	7.16	6.80	6.59	6.57
temperature (degrees C)	13.41	14.19	14.12	14.48	15.21	14.95	15.19	15.63	15.56	15.60
redox potential (mv)	233	226	288	221	227	231	233	236	239	239
depth to water (feet)	15.75	15.74	15.73	15.76	15.75	15.75	15.75	15.75	15.74	15.75
volume purged (gal or L)	<u>2</u>	2.0	4.0	4.0	6.0	8.0	10.0	12.0	14.0	15.0

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: 8230D-SM-MS-ID
PEC-IDA-(MOD) PFAS
 LABORATORY: Test America
 CONTACT: Dawn F. Crowell

Casing Diameter/Volume conversions (inches) (gallons per foot)	NOTES: <u>1031 - No water flow issue with check ball valve</u> <u>4" well</u> <u>Trouble shooting</u>
2.0 0.1632	
4.0 0.6528	
6.0 1.4687	
8.0 2.6115	<u>BD-01-20181025 collected @ 1225</u>

**GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS**

PROJECT NUMBER: 10025227-0034 DATE: 10/25/18
PROJECT NAME: Fairchilde SAMPLERS: MTP
SITE LOCATION: East Farmingdale, NY KLM
SITE CONTACT: Dan St. Germain WEATHER: _____

WELL IDENTIFICATION NUMBER: MW-215 PERMIT: _____
WELL HEADSPACE READING: _____ PID MODEL/LAMP: _____
DEPTH TO WATER (Before Purging): _____ FEET FROM TOP OF CASING
WELL DEPTH: _____ FEET FROM TOP OF CASING
HEIGHT OF WATER IN WELL: See Page 1 FEET
WATER IN ONE WELL VOLUME: for info GALLONS
PURGE TIME (start/finish): _____ PURGE RATE: _____
WELL EVACUATION DEVICE: _____
SAMPLING TIME (start/finish): _____ SAMPLE RATE: _____
SAMPLE COLLECTION DEVICE: _____
SAMPLE APPEARANCE: _____

FIELD PARAMETERS	initial 10 th	1 st 11 th	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1145	1150								
pH (SU)	5.81	5.80								
specific conductivity (mS)	0.158	0.158								
turbidity (NTU's)	14.6	13.6								
dissolved oxygen (mg/l)	6.54	6.41								
temperature (degrees C)	15.54	15.48								
redox potential (mv)	240	241								
depth to water (feet)	15.74	15.75								
volume purged (gal or L)	16.0	17.0								

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: _____
LABORATORY: _____
CONTACT: _____

Casing Diameter/Volume conversions	
(inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES:



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004 DATE: 10/25/18
PROJECT NAME: Fairchild SAMPLERS: MTP
SITE LOCATION: East Farmingdale, NY KUM
SITE CONTACT: Dan St. Germain WEATHER: 50°F, Sunny, Windy
WELL IDENTIFICATION NUMBER: ~~5-6657~~ S-66157 PERMIT: Mini Rze 3000
WELL HEADSPACE READING: 0.2 PID MODEL/LAMP: Mini Rze 3000
DEPTH TO WATER (Before Purging): 19.74 FEET FROM TOP OF CASING
WELL DEPTH: 54 FEET FROM TOP OF CASING
HEIGHT OF WATER IN WELL: 34.26 FEET
WATER IN ONE WELL VOLUME: 5.6 GALLONS
PURGE TIME (start/finish): 1251 / 1336 PURGE RATE: 150 ml/min
WELL EVACUATION DEVICE: Inertial Pump
SAMPLING TIME (start/finish): 1340 / 1345 SAMPLE RATE:
SAMPLE COLLECTION DEVICE: Inertial Pump
SAMPLE APPEARANCE: Clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1251	1301	1311	1321	1326	1331	1336			
pH (SU)	6.47	6.18	6.19	6.17	6.18	6.18	6.17			
specific conductivity (mS)	0.221	0.239	0.235	0.234	0.235	0.236	0.236			
turbidity (NTU's)	12.0	13.4	8.8	5.5	4.3	3.6	3.3			
dissolved oxygen (mg/l)	7.14	5.07	4.42	3.92	3.70	3.57	3.52			
temperature (degrees C)	15.45	15.68	15.16	14.94	15.10	14.94	14.92			
redox potential (mv)	231	268	276	280	280	280	280			
depth to water (feet)	19.74	19.73	19.72	19.71	19.76	19.74	19.74			
volume purged (gal or L)	8	1.5	3.0	4.5	6.0	6.0	7.25			

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: 8270D SIMS MS-ID
PIC TDA (MOD) PFAS, Standard List
LABORATORY: Test America
CONTACT: Dawn F. Crowell

Casing Diameter/Volume conversions	
(inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES:2" Well



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004 DATE: 10/25/18
 PROJECT NAME: Fairchild SAMPLERS: MTP
 SITE LOCATION: East Farmingdale, NY KW
 SITE CONTACT: Dan St Germain WEATHER: 52°F, Sunny, Windy

WELL IDENTIFICATION NUMBER: MW-43S PERMIT: Mini Rex 3000
 WELL HEADSPACE READING: Ø PID MODEL/LAMP: Mini Rex 3000
 DEPTH TO WATER (Before Purging): 17.06 FEET FROM TOP OF CASING
 WELL DEPTH: 80.00 FEET FROM TOP OF CASING
 HEIGHT OF WATER IN WELL: 62.94 FEET
 WATER IN ONE WELL VOLUME: 41 GALLONS
 PURGE TIME (start/finish): 1437/1444 1459/1545 PURGE RATE: 300 ml/min
 WELL EVACUATION DEVICE: Interital Pump (Western)
 SAMPLING TIME (start/finish): 1545/1550 SAMPLE RATE: 300 ml/min
 SAMPLE COLLECTION DEVICE: Interital Pump
 SAMPLE APPEARANCE: Clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1437	1444	1459	1509	1519	1529	1534	1539		
pH (SU)	7.05	6.19	6.15	6.15	6.17	6.18	6.17	6.18		
specific conductivity (mS)	0.1281	0.451	0.454	0.466	0.465	0.465	0.464	0.463		
turbidity (NTU's)	1.0	0.7	1.5	1.1	1.2	1.4	1.4	1.7		
dissolved oxygen (mg/l)	2.24	2.86	1.95	0.08	Ø	Ø	Ø	Ø		
temperature (degrees C)	15.83	15.49	16.13	15.29	15.22	15.20	15.22	15.15		
redox potential (mv)	221	230	233	207	206	204	204	204		
depth to water (feet)										
volume purged (gal or L)										

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: 8270D STM-MS-ID
PFC-TDA-CMOD) PFAS Standard List
 LABORATORY: Test America
 CONTACT: Dawn F. Crowell

Casing Diameter/Volume conversions (inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 1444 - Generator out of gas
1459 - Generator backup and running
4" well
EB-20181025 taken collected prior to purge at this location
@1315



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004 DATE: 10/26/18
 PROJECT NAME: Farrchula SAMPLERS: MTB
 SITE LOCATION: East Farmingdale, NY KLM
 SITE CONTACT: Dan St Germain WEATHER: .

WELL IDENTIFICATION NUMBER: NW42 I PERMIT:
 WELL HEADSPACE READING: 8 PID MODEL/LAMP: MiniRae 3000
 DEPTH TO WATER (Before Purging): 21.38 FEET FROM TOP OF CASING
 WELL DEPTH: 179 FEET FROM TOP OF CASING
 HEIGHT OF WATER IN WELL: 157.62 FEET
 WATER IN ONE WELL VOLUME: 103 GALLONS
 PURGE TIME (start/finish): 1010/1110 PURGE RATE: 150 ml/min
 WELL EVACUATION DEVICE: RED Bladder pump
 SAMPLING TIME (start/finish): 1115/1120 SAMPLE RATE: 150 ml/min
 SAMPLE COLLECTION DEVICE: RED Bladder pump
 SAMPLE APPEARANCE: Clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1010	1020	1030	1040	1045	1050	1055	1100	1105	1110
pH (SU)	6.60	6.10	5.82	5.87	5.88	5.88	5.88	6.37	6.36	6.37
specific conductivity (mS)	0.220	0.344	0.471	0.482	0.483	0.483	0.483	0.536	0.537	0.538
turbidity (NTU's)	7.4	20.0	20.6	19.0	19.6	19.2	20.0	0.00	0.00	0.00
dissolved oxygen (mg/l)	6.86	1.90	0.37	0.06	0.00	0.00	0.00	0.94	0.99	1.03
temperature (degrees C)	11.21	12.13	12.62	12.86	12.95	13.02	13.05	13.39	13.44	13.50
redox potential (mv)	112	91	125	136	141	146	151	147	149	151
depth to water (feet)	21.38	21.38	21.38	21.38	21.38	21.38	21.38	21.37	21.38	21.38
volume purged (gal or L)										

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: VOC + Freon, 876013
 LABORATORY: Pace
 CONTACT: Jonathan Ray Dacki

Casing Diameter/Volume conversions (inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 1055 - Reinitiated Henba
4" well



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004
PROJECT NAME: Fairchild
SITE LOCATION: 81st Farmingdale, NY

DATE: 10/26/18
SAMPLERS: MTF
KLM

SITE CONTACT: Dan St Germain

WEATHER: _____

WELL IDENTIFICATION NUMBER: MW-42D

PERMIT: _____

WELL HEADSPACE READING: 0

PID MODEL/LAMP: Mmi Rae 3000

DEPTH TO WATER (Before Purging): 20.82

FEET FROM TOP OF CASING

WELL DEPTH: 240

FEET FROM TOP OF CASING

HEIGHT OF WATER IN WELL: 219.18

FEET

WATER IN ONE WELL VOLUME: 142

GALLONS

PURGE TIME (start/finish): 1103/1223

PURGE RATE: 100 ml/min

WELL EVACUATION DEVICE: Blackless pump

SAMPLING TIME (start/finish): 1230/1235

SAMPLE RATE: 100 ml/min

SAMPLE COLLECTION DEVICE: QED Blackless pump

SAMPLE APPEARANCE: clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1103	1113	1123	1133	1143	1153	1203	1213	1218	1223
pH (SU)	5.84	5.53	5.27	5.19	5.16	5.15	5.14	5.15	5.16	5.15
specific conductivity (mS)	0.145	0.146	0.165	0.173	0.174	0.174	0.174	0.173	0.173	0.173
turbidity (NTU's)	7.7	33.7	42.7	30.5	24.6	21.0	19.0	16.8	16.0	15.9
dissolved oxygen (mg/l)	6.59	9.13	8.58	8.09	7.48	6.80	6.30	6.00	5.87	5.85
temperature (degrees C)	11.58	12.85	13.11	13.40	13.59	13.87	13.89	14.02	14.12	14.23
redox potential (mv)	44	96	133	161	179	193	200	205	207	209
depth to water (feet)										
volume purged (gal or L)										

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: VOC + Freon, 8260B

LABORATORY: Pore

CONTACT: Jonathan Rybacki

Casing Diameter/Volume conversions	
(inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 4" well

Had issues with MP-1011.

**GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS**

PROJECT NUMBER: 10925227-004 DATE: 29-Oct-2018
PROJECT NAME: Fairchild SAMPLERS: MTP
SITE LOCATION: East Farmingdale, NY RLM
SITE CONTACT: Dan St. Germain WEATHER: Partly cloudy, windy

WELL IDENTIFICATION NUMBER: MW-40 PERMIT:
WELL HEADSPACE READING: 0.0 PID MODEL/LAMP: Minke 3000
DEPTH TO WATER (Before Purging): 26.19 FEET FROM TOP OF CASING
WELL DEPTH: 140 FEET FROM TOP OF CASING
HEIGHT OF WATER IN WELL: 113.81 FEET
WATER IN ONE WELL VOLUME: 74 GALLONS
PURGE TIME (start/finish): 0851/1130 PURGE RATE: 150ml/min
WELL EVACUATION DEVICE: OED Bladder pump
SAMPLING TIME (start/finish): 1130/1135 SAMPLE RATE: 150ml/min
SAMPLE COLLECTION DEVICE: OED Bladder pump
SAMPLE APPEARANCE: clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	0851	0901	0911	0921	0931	0941	0951	1001	1011	1021
pH (SU)	6.19	5.99	6.17	6.10	6.20	6.23	6.22	6.21	6.32	6.24
specific conductivity (mS)	0.252	0.449	0.455	0.455	0.449	0.453	0.437	0.448	0.445	0.449
turbidity (NTU's)	Q	Q	Q	Q	Q	Q	899	668	204	255
dissolved oxygen (mg/l)	4.59	0.61	0.03	0.51	0.62	Q	0.01	0.07	0.10	0.01
temperature (degrees C)	15.83	16.27	16.12	16.07	15.99	15.95	15.90	15.96	15.87	16.41
redox potential (mv)	28	28	20	26	30	28	32	25	39	44
depth to water (feet)	26.19	26.18	26.17	26.18	26.19	26.19	26.20	26.18	26.19	26.17
volume purged (gal or L)	Q	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: Vol's + Feas, 8260B
LABORATORY: Pace
CONTACT: John Rybacki

Casing Diameter/Volume conversions (inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 4th well, well very Turbid at the Beginning.



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004 DATE: 10/29/18
PROJECT NAME: Fairchild SAMPLERS: UTP
SITE LOCATION: East Farmingdale NY KLM
SITE CONTACT: Don St. Germain WEATHER: 50°, cloudy, windy

WELL IDENTIFICATION NUMBER:**PERMIT:**

WELL HEADSPACE READING:

PID MODEL/LAMP:

DEPTH TO WATER (Before Purging):

FEET FROM TOP OF CASING

WELL DEPTH:

FEET FROM TOP OF CASING

HEIGHT OF WATER IN WELL:

FEET

WATER IN ONE WELL VOLUME:

GALLONS

PURGE TIME (start/finish):

PURGE RATE:

WELL EVACUATION DEVICE:

SAMPLING TIME (start/finish):

SAMPLE RATE:

SAMPLE COLLECTION DEVICE:

SAMPLE APPEARANCE:

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1031	1041	1051	1101	1106	1111	1116	1121	1126	
pH (SU)	6.24	6.27	6.24	6.28	6.26	6.26	6.26	6.24	6.24	
specific conductivity (mS)	0.442	0.441	0.443	0.442	0.441	0.441	0.441	0.441	0.441	
turbidity (NTU's)	211	107	72.1	41.3	39.7	35.7	30.6	32.3	30.5	
dissolved oxygen (mg/l)	0	0	0	0	0	0	0	0	0	
temperature (degrees C)	16.27	16.34	16.32	16.21	16.19	16.15	16.16	16.07	16.03	
redox potential (mv)	44	47	49	48	47	48	48	48	48	
depth to water (feet)										
volume purged (gal or L)										

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED:

LABORATORY:

CONTACT:

Casing Diameter/Volume conversions	
(inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES:



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004 DATE: 10/26/18
 PROJECT NAME: Fairchild SAMPLERS: MTP
 SITE LOCATION: East Farmingdale, NY PLM
 SITE CONTACT: Don St. Germain WEATHER: _____

WELL IDENTIFICATION NUMBER: MW. 43I PERMIT: _____
 WELL HEADSPACE READING: 0.0 PID MODEL/LAMP: M242 RAE SUND
 DEPTH TO WATER (Before Purging): 20.60 FEET FROM TOP OF CASING
 WELL DEPTH: 200 FEET FROM TOP OF CASING
 HEIGHT OF WATER IN WELL: 179.4 FEET
 WATER IN ONE WELL VOLUME: 117 GALLONS
 PURGE TIME (start/finish): 1410/1550 PURGE RATE: 100 mL/min
 WELL EVACUATION DEVICE: RED Bladder Pump
 SAMPLING TIME (start/finish): _____ SAMPLE RATE: _____
 SAMPLE COLLECTION DEVICE: _____
 SAMPLE APPEARANCE: _____

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1410	1420	1430	1440	1450	1520	1530	1540	1550	1555
pH (SU)	5.80	5.72	5.67	5.55	5.61	5.88	5.84	5.65	5.61	
specific conductivity (mS)	0.243	0.230	0.244	0.256	0.251	0.263	0.261	0.258	0.255	
turbidity (NTU's)	172	105	60.9	42.0	51.3	73.2	61.8	47.1	48.2	
dissolved oxygen (mg/l)	5.54	4.73	3.08	2.37	2.03	0.89	0.79	0.37	0.41	
temperature (degrees C)	13.67	13.55	13.54	13.47	13.37	13.58	13.12	13.20	13.16	13.14
redox potential (mv)	100	94	106	132	118	144	151	174	167	
depth to water (feet)										
volume purged (gal or L)										

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: VOCs & Freon 826013
 LABORATORY: Pace
 CONTACT: John Rybacki

Casing Diameter/Volume conversions (inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 1450-1550 SW/Flow - 1550, well stable but
ran out of Air before we could sample. going to
have to redo well on Monday 10/29/18



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004
PROJECT NAME: Fairchild
SITE LOCATION: East Farmingdale, NY

DATE: 10/29/18
SAMPLERS: MRP
KLM

SITE CONTACT: Don St GermainWEATHER: 80° Cloudy, WindyWELL IDENTIFICATION NUMBER: MW-43IPERMIT: Mini fac 3000WELL HEADSPACE READING: 0PID MODEL/LAMP: Mini fac 3000DEPTH TO WATER (Before Purging): 20.60

FEET FROM TOP OF CASING

WELL DEPTH: 200

FEET FROM TOP OF CASING

HEIGHT OF WATER IN WELL: 179.4

FEET

WATER IN ONE WELL VOLUME: 117

GALLONS

PURGE TIME (start/finish): 1210/1240PURGE RATE: 100 ml/minWELL EVACUATION DEVICE: OED Bladder PumpSAMPLING TIME (start/finish): 1310/1315SAMPLE RATE: 100 ml/minSAMPLE COLLECTION DEVICE: OED Bladder PumpSAMPLE APPEARANCE: clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1210	1220	1230	1240	1245	1250	1255	1300 1300	1305	
pH (SU)	7.24	5.76	5.77	5.61	5.55	5.50	5.55	5.54	5.54	
specific conductivity (mS)	0.275	0.287	0.287	0.284	0.280	0.279	0.277	0.277	0.275	
turbidity (NTU's)	336	130	119	44.2	29.0	29.2	26.0 26.0	27.4	26.0	
dissolved oxygen (mg/l)	8.64	5.87	5.78	3.69 3.69	1.18	0.61	0.45	0.35	0.28	
temperature (degrees C)	14.99	14.64	14.61	14.50	14.50	14.62	14.82	14.87	14.90	
redox potential (mv)	87	191	115	210	219	220	221	224	224	
depth to water (feet)	20.60	20.58	20.57	20.60	20.60	20.59	20.61	20.60	20.60	
volume purged (gal or L)	0	1.0	2.0	3.0	4.0	5.0	6.0 5.5	7.0 6.0	8.0 7.0	

SAMPLE ANALYSIS INFORMATIONANALYSIS REQUIRED: VOLs + Freon 8260BLABORATORY: PaceCONTACT: John Rybacki

Casing Diameter/Volume conversions	
(inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: Had to re-purge this well because of Pump
out of Air on 10/24/18.



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004 DATE: 10/29/18
 PROJECT NAME: Fairchild SAMPLERS: MTP
 SITE LOCATION: East Farmingdale, NY KIM
 SITE CONTACT: Dan St Germain WEATHER: 80°, (cloudy) windy

WELL IDENTIFICATION NUMBER: MW-37I PERMIT: MiniRAE 3000
 WELL HEADSPACE READING: 0.2 PID MODEL/LAMP: MiniRAE 3000
 DEPTH TO WATER (Before Purging): 17.77 FEET FROM TOP OF CASING
 WELL DEPTH: 197 FEET FROM TOP OF CASING
 HEIGHT OF WATER IN WELL: 179.23 FEET
 WATER IN ONE WELL VOLUME: 117 GALLONS
 PURGE TIME (start/finish): 1403/1443 PURGE RATE: 100 mL/min
 WELL EVACUATION DEVICE: QED Model purf
 SAMPLING TIME (start/finish): 1445/1450 SAMPLE RATE: 100 mL/min
 SAMPLE COLLECTION DEVICE: QED Model purf
 SAMPLE APPEARANCE: clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1403	1413	1423	1433	1438	1443				
pH (SU)	7.44	6.07	6.03	6.04	6.03	6.06				
specific conductivity (mS)	0.306	0.289	0.287	0.286	0.286	0.286				
turbidity (NTU's)	3.2	0.2	0.2	2.0	0.2	0.2				
dissolved oxygen (mg/l)	9.54	2.24	1.49	1.16	0.98	0.87				
temperature (degrees C)	15.48	15.07	14.98	14.92	14.91	14.88				
redox potential (mv)	165	200	206	201	200	197				
depth to water (feet)	17.74	17.74	17.75	17.76	17.77	17.77				
volume purged (gal or L)	0.0	0.5	1.0	1.5	2.0	2.5				

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: VOCs + Freon 8260B
 LABORATORY: Pace
 CONTACT: Sohn Rybacki

Casing Diameter/Volume conversions (inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 4"



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004
 PROJECT NAME: fairchild
 SITE LOCATION: East Farmingdale, NY

DATE: 10/29/18
 SAMPLERS: MJP
KUM

SITE CONTACT: Dan St. Germain

WEATHER: 53°F, Cloudy, windy

WELL IDENTIFICATION NUMBER: 88113 S-66133

PERMIT: Min Rae 3000

WELL HEADSPACE READING: 0

PID MODEL/LAMP: Min Rae 3000

DEPTH TO WATER (Before Purging): 20.30

FEET FROM TOP OF CASING

WELL DEPTH: 142

FEET FROM TOP OF CASING

HEIGHT OF WATER IN WELL: 121.7

FEET

WATER IN ONE WELL VOLUME: 178 45

GALLONS

PURGE TIME (start/finish): 1433/1530

PURGE RATE: 150 ml/min

WELL EVACUATION DEVICE: QED Bladder Pump

SAMPLING TIME (start/finish): 1530/1535

SAMPLE RATE: 150 ml/min

SAMPLE COLLECTION DEVICE: QED Bladder Pump

SAMPLE APPEARANCE: clear, Sulfur odor

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1433	1443	1453	1503	1513	1523	1528			
pH (SU)	6.43	5.91	5.88	5.87	5.89	5.88	5.85			
specific conductivity (mS)	0.226	0.380	0.392	0.394	0.394	0.395	0.395			
turbidity (NTU's)	9.3	1.4	0.9	0.9	0.8	1.1	1.0			
dissolved oxygen (mg/l)	5.26	0.53	0.08	0.02	0.02	0.02	0.02			
temperature (degrees C)	14.97	14.45	14.42	14.42	14.62	14.47	14.35			
redox potential (mv)	25	1	-2	-5	-9	-11	-11			
depth to water (feet)	20.30	20.30	20.27	20.28	20.29	20.30	20.30			
volume purged (gal or L)	0	1.5	3.0	4.5	6.0	7.5	8.25			

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: Vocs + freon 8260B

LABORATORY: Pace Analytical
 CONTACT: John Rybacki

Casing Diameter/Volume conversions (inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES:

6" well
Sulfur odor
Blind Dug BD-02-20181029 @ 1665 collected at
this location



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10075277-004 DATE: 10/29/18
PROJECT NAME: fairchild SAMPLERS: MTD
SITE LOCATION: East Farmingdale, NY KIM
SITE CONTACT: Dan St Germain WEATHER: 53°F, Cloudy, Windy

WELL IDENTIFICATION NUMBER: MW-46I PERMIT: MiniRae 3000
WELL HEADSPACE READING: 1.4 PID MODEL/LAMP: MiniRae 3000
DEPTH TO WATER (Before Purging): 20.52 FEET FROM TOP OF CASING
WELL DEPTH: 149 FEET FROM TOP OF CASING
HEIGHT OF WATER IN WELL: 128.48 FEET
WATER IN ONE WELL VOLUME: 84 GALLONS
PURGE TIME (start/finish): 1628/1730 PURGE RATE: 150 ml/min
WELL EVACUATION DEVICE: QED Bladder Pump
SAMPLING TIME (start/finish): 1730/1735 SAMPLE RATE: 150 ml/min
SAMPLE COLLECTION DEVICE: QED Bladder Pump
SAMPLE APPEARANCE: clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1628	1638	1648	1658	1708	1718	1728	1728		
pH (SU)	6.12	5.78	5.77	5.76	5.74	5.74	5.74	5.75		
specific conductivity (mS)	0.199	0.194	0.193	0.192	0.192	0.192	0.192	0.191		
turbidity (NTU's)	Q	4.5	1.4	Q	Q	Q	Q	0.0		
dissolved oxygen (mg/l)	7.93	2.08	1.47	1.11	Q.83	0.71	0.66	0.61		
temperature (degrees C)	15.62	15.74	15.71	15.91	15.90	15.93	15.89	15.92		
redox potential (mv)	232	208	189	167	146	137	135	131		
depth to water (feet)										
volume purged (gal or L)										

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: VOCs + Freon 8260B
LABORATORY: PACE Analytical
CONTACT: John Rybacki

Casing Diameter/Volume conversions	
(inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 4" well



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-0001 DATE: 10/30/18
 PROJECT NAME: Fairchild SAMPLERS: WTP
 SITE LOCATION: East Farmingdale NY RLM
 SITE CONTACT: Deb St. Germain WEATHER: 43° clear, windy

WELL IDENTIFICATION NUMBER: MW-495 PERMIT:
 WELL HEADSPACE READING: 0-0 PID MODEL/LAMP: Mini fac 3000
 DEPTH TO WATER (Before Purging): 82.65 FEET FROM TOP OF CASING
 WELL DEPTH: 110 FEET FROM TOP OF CASING
 HEIGHT OF WATER IN WELL: 87.35 FEET
 WATER IN ONE WELL VOLUME: 57 GALLONS
 PURGE TIME (start/finish): 0858/0940 PURGE RATE: 100 ml/min
 WELL EVACUATION DEVICE: QED Blackline pump
 SAMPLING TIME (start/finish): 0940/0945 SAMPLE RATE: 100 ml/min
 SAMPLE COLLECTION DEVICE: QED Blackline pump
 SAMPLE APPEARANCE: clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	0858	0908	0918	0928	0933	0938				
pH (SU)	7.14	7.04	7.02	7.01	7.02	7.02				
specific conductivity (mS)	0.331	0.320	0.322	0.322	0.322	0.322				
turbidity (NTU's)	13.0	19.7	14.4	12.1	11.2	11.3				
dissolved oxygen (mg/l)	7.35	3.22	1.88	1.43	1.28	1.21				
temperature (degrees C)	9.50	11.88	12.13	12.32	12.41	12.42				
redox potential (mv)	198	119	109	104	102	102				
depth to water (feet)										
volume purged (gal or L)										

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: VOL's + Freon, 8260B
 LABORATORY: PAAC Analytical
 CONTACT: John Rybacki

Casing Diameter/Volume conversions	
(inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 4" well



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004 DATE: 10/30/18
 PROJECT NAME: Fairchild SAMPLERS: MTP
 SITE LOCATION: East Farmingdale, NY KLM
 SITE CONTACT: Dan St. Germain WEATHER: 43°, clear, windy

WELL IDENTIFICATION NUMBER: MW-49D PERMIT: _____
 WELL HEADSPACE READING: 0.0 PID MODEL/LAMP: MiniRAE 300
 DEPTH TO WATER (Before Purging): 22.17 FEET FROM TOP OF CASING
 WELL DEPTH: 170 FEET FROM TOP OF CASING
 HEIGHT OF WATER IN WELL: 147.83 FEET
 WATER IN ONE WELL VOLUME: 24 GALLONS
 PURGE TIME (start/finish): 0848/1013 PURGE RATE: 150 ml/min
 WELL EVACUATION DEVICE: AED Bladder pump
 SAMPLING TIME (start/finish): 1015/1020 SAMPLE RATE: 150 ml/min
 SAMPLE COLLECTION DEVICE: RVD Bladder pump
 SAMPLE APPEARANCE: clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th
time (00:00)	0848	0858	0908	0918	0928	0938	0948	0958	1003	1008	1013
pH (SU)	6.22	5.97	5.87	5.88	5.98	5.99	5.98	6.01	6.00	6.0	6.01
specific conductivity (mS)	0.182	0.185	0.185	0.182	0.181	0.181	0.178	0.178	0.178	0.178	0.178
turbidity (NTU's)	14.8	14.0	14.5	96.1	53.9	43.2	30.0	24.7	20.1	19.0	18.9
dissolved oxygen (mg/l)	3.45	1.00	0.57	0.17	0.07	0	0	0	0	0	0
temperature (degrees C)	11.36	13.11	13.22	13.46	13.52	13.62	13.96	14.16	14.19	14.29	14.30
redox potential (mv)	66	79	87	95	99	109	110	122	125	129	129
depth to water (feet)	22.17	22.19	22.20	22.24	22.24	22.20	22.20	22.18	22.17	22.17	22.17
volume purged (gal or L)	0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	12.0	12.75

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: VOCs + Freon, 8260B
 LABORATORY: Pace Analytical
 CONTACT: John Rybacki

Casing Diameter/Volume conversions (inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 2" well



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GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004 DATE: 10/30/18
PROJECT NAME: Fairchild SAMPLERS: MJP
SITE LOCATION: East Farmingdale, NY KRM
SITE CONTACT: Dan St Germain WEATHER: 46° Clear, windy

WELL IDENTIFICATION NUMBER: MW-50 PERMIT: Mini-Rae 3000
WELL HEADSPACE READING: 0.5 PID MODEL/LAMP: Mini-Rae 3000
DEPTH TO WATER (Before Purging): 19.36 FEET FROM TOP OF CASING
WELL DEPTH: 165 FEET FROM TOP OF CASING
HEIGHT OF WATER IN WELL: 145.64 FEET
WATER IN ONE WELL VOLUME: 95 GALLONS
PURGE TIME (start/finish): 1059/1140 PURGE RATE: 100 ml/min
WELL EVACUATION DEVICE: AED Bladder Pump
SAMPLING TIME (start/finish): 1140/1145 SAMPLE RATE: 100 ml/min
SAMPLE COLLECTION DEVICE: AED Bladder Pump
SAMPLE APPEARANCE: clear

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1059	1109	1119	1129	1134	1139				
pH (SU)	6.45	5.79	5.75	5.74	5.76	5.71				
specific conductivity (mS)	0.216	0.199	0.199	0.198	0.198	0.197				
turbidity (NTU's)	26.3	9.4	6.6	6.0	4.9	5.4				
dissolved oxygen (mg/l)	5.29	0.66	0.29	0.17	0.13	0.11				
temperature (degrees C)	14.23	13.97	13.91	13.89	13.90	13.89				
redox potential (mv)	152	194	203	207	207	210				
depth to water (feet)	19.36	19.36	19.40	19.41	19.44	19.45				
volume purged (gal or L)	2	1.2	2.2	3.2	3.5	4.2				

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: Vol's + Iron, 8260B
LABORATORY: PACE Analytical
CONTACT: John Rybacki

Casing Diameter/Volume conversions	
(inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 4" well



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10/2

GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10025227-004 DATE: 10/30/18
PROJECT NAME: Fairchild SAMPLERS: MTP
SITE LOCATION: East Farmingdale, NY KLM
SITE CONTACT: Dan St Germain WEATHER: 50°F, Clear, Windy

WELL IDENTIFICATION NUMBER: S-66134 PERMIT: Mini Pace 3000
WELL HEADSPACE READING: 0 PID MODEL/LAMP: Mini Pace 3000
DEPTH TO WATER (Before Purging): 18.44 FEET FROM TOP OF CASING
WELL DEPTH: 145 FEET FROM TOP OF CASING
HEIGHT OF WATER IN WELL: 126.56 FEET
WATER IN ONE WELL VOLUME: 185 GALLONS
PURGE TIME (start/finish): 1225/1425 PURGE RATE: 200ml/min
WELL EVACUATION DEVICE: GED Bladder Pump
SAMPLING TIME (start/finish): 1425/1430 SAMPLE RATE: 200ml/min
SAMPLE COLLECTION DEVICE: GED Bladder Pump
SAMPLE APPEARANCE: Clear, Sulfur Smell

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1225	1238	1245	1255	1305	1310	1315	1320	1325	1335
pH (SU)	6.60	6.72	6.74	6.75	6.77	6.77	6.78	6.80	6.82	6.91
specific conductivity (mS)	0.058	0.155	0.163	0.170	0.173	0.177	0.182	0.190	0.202	0.264
turbidity (NTU's)	69.2	34.0	25.9	19.4	16.9	15.1	14.1	14.4	14.9	16.0
dissolved oxygen (mg/l)	9.03	1.31	0.84	0.29	0.10	0.45	0.82	0.53	0.26	0.55
temperature (degrees C)	13.80	14.60	14.97	15.21	15.40	15.59	15.73	15.78	15.84	15.17
redox potential (mv)	5	-101	-112	-120	-122	-125	-127	-131	-133	-150
depth to water (feet)										
volume purged (gal or L)										

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED: VOCs + Freon 8260 B
LABORATORY: PACE Analytical
CONTACT: John Rybacki

Casing Diameter/Volume conversions (inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES: 6" well, well cap covered in dirt had to be scrubbed
thru hole in well cap. Sulfur smell.



1 International Boulevard, 10th Floor, Mahwah, NJ 07495-0027

20/2

GROUNDWATER MONITORING WELL SAMPLE COLLECTION LOGS

PROJECT NUMBER: 10@25222-004
PROJECT NAME: Fairchild
SITE LOCATION: East Farmingdale, NY

DATE: 10/30/18
SAMPLERS: MSP
KLM

SITE CONTACT: Don St Germain

WEATHER: 50°, clear, windy

WELL IDENTIFICATION NUMBER:**PERMIT:**

WELL HEADSPACE READING:

DEPTH TO WATER (Before Purging):

WELL DEPTH:

HEIGHT OF WATER IN WELL:

WATER IN ONE WELL VOLUME:

PURGE TIME (start/finish):

WELL EVACUATION DEVICE:

SAMPLING TIME (start/finish):

SAMPLE COLLECTION DEVICE:

SAMPLE APPEARANCE:

PID MODEL/LAMP:

FEET FROM TOP OF CASING

FEET FROM TOP OF CASING

FEET

GALLONS

PURGE RATE:

SAMPLE RATE:

FIELD PARAMETERS	initial	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
time (00:00)	1345	1355	1400	1405	1410	1415	1420			
pH (SU)	6.94	6.99	6.99	6.98	6.98	6.98	7.00			
specific conductivity (mS)	0.314	0.333	0.340	0.345	0.349	0.351	0.353			
turbidity (NTU's)	24.4	19.4	16.3	14.3	15.3	16.3	15.8			
dissolved oxygen (mg/l)	0.73	0.65	0.63	0.68	0.53	0.45	0.76			
temperature (degrees C)	16.10	16.36	16.45	16.53	16.61	16.67	16.72			
redox potential (mv)	-163	-161	-172	-173	-174	-176	-180			
depth to water (feet)	18.90	18.91	18.92	18.90	18.95	18.84	18.81			
volume purged (gal or L)										

SAMPLE ANALYSIS INFORMATION

ANALYSIS REQUIRED:

LABORATORY:

CONTACT:

Casing Diameter/Volume conversions	
(inches)	(gallons per foot)
2.0	0.1632
4.0	0.6528
6.0	1.4687
8.0	2.6115

NOTES:

November 05, 2018

Daniel St. Germaine
HDR
1 International Blvd.
Mahwah, NJ 07495

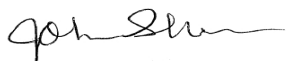
RE: Project: FAIRCHILD ANNUAL 10/26
Pace Project No.: 7069233

Dear Daniel Germaine:

Enclosed are the analytical results for sample(s) received by the laboratory on October 26, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: James, Wire to Water Electrical Contractors
Paul Lanzillotta, Wire to Water Electrical Contractors
Caroline Mendoza, Fairchild Corporation
Stuart Skopicki, Wire to Water Electrical Contractors



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

Sample: MW-421-20181026		Lab ID: 7069233001		Collected: 10/26/18 11:15		Received: 10/26/18 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 14:11	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 14:11	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 14:11	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 14:11	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 14:11	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 14:11	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 14:11	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 14:11	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:11	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:11	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 14:11	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 14:11	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 14:11	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:11	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 14:11	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 14:11	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 14:11	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:11	107-06-2		
Trichloroethene	1.1	ug/L	1.0	1		11/01/18 14:11	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:11	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 14:11	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 14:11	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 14:11	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 14:11	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 14:11	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:11	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/01/18 14:11	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:11	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 14:11	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 14:11	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 14:11	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 14:11	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 14:11	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 14:11	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 14:11	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 14:11	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:11	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 14:11	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 14:11	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	98-06-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

Sample: MW-42I-20181026		Lab ID: 7069233001		Collected: 10/26/18 11:15		Received: 10/26/18 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 14:11	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 14:11	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	87-61-6	L1	
Dichlorofluoromethane	<1.0	ug/L	1.0	1		11/01/18 14:11	75-43-4	N3	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		11/01/18 14:11	76-13-1		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 14:11	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 14:11	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 14:11	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 14:11	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 14:11	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 14:11	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 14:11	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 14:11	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:11	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	86	%	68-153	1		11/01/18 14:11	17060-07-0		
4-Bromofluorobenzene (S)	96	%	79-124	1		11/01/18 14:11	460-00-4		
Toluene-d8 (S)	96	%	69-124	1		11/01/18 14:11	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

Sample: MW-42D-20181026		Lab ID: 7069233002		Collected: 10/26/18 12:30		Received: 10/26/18 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 14:31	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 14:31	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 14:31	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 14:31	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 14:31	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 14:31	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 14:31	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 14:31	156-60-5		
1,1-Dichloroethane	3.2	ug/L	1.0	1		11/01/18 14:31	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:31	594-20-7		
cis-1,2-Dichloroethene	1.2	ug/L	1.0	1		11/01/18 14:31	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 14:31	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 14:31	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:31	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 14:31	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 14:31	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 14:31	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:31	107-06-2		
Trichloroethene	6.5	ug/L	1.0	1		11/01/18 14:31	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:31	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 14:31	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 14:31	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 14:31	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 14:31	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 14:31	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:31	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/01/18 14:31	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:31	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 14:31	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 14:31	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 14:31	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 14:31	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 14:31	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 14:31	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 14:31	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 14:31	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:31	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 14:31	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 14:31	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

Sample: MW-42D-20181026		Lab ID: 7069233002		Collected: 10/26/18 12:30		Received: 10/26/18 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 14:31	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 14:31	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	87-61-6	L1	
Dichlorofluoromethane	<1.0	ug/L	1.0	1		11/01/18 14:31	75-43-4	N3	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		11/01/18 14:31	76-13-1		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 14:31	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 14:31	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 14:31	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 14:31	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 14:31	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 14:31	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 14:31	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 14:31	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:31	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		11/01/18 14:31	17060-07-0		
4-Bromofluorobenzene (S)	99	%	79-124	1		11/01/18 14:31	460-00-4		
Toluene-d8 (S)	101	%	69-124	1		11/01/18 14:31	2037-26-5		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

Sample: TB-20181026		Lab ID: 7069233003		Collected: 10/26/18 00:00		Received: 10/26/18 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 14:52	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 14:52	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 14:52	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 14:52	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 14:52	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 14:52	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 14:52	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 14:52	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:52	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:52	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 14:52	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 14:52	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 14:52	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:52	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 14:52	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 14:52	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 14:52	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:52	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		11/01/18 14:52	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:52	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 14:52	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 14:52	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 14:52	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 14:52	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 14:52	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 14:52	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/01/18 14:52	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:52	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 14:52	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 14:52	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 14:52	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 14:52	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 14:52	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 14:52	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 14:52	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 14:52	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 14:52	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 14:52	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 14:52	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	98-06-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

Sample: TB-20181026		Lab ID: 7069233003		Collected: 10/26/18 00:00		Received: 10/26/18 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 14:52	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 14:52	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	87-61-6	L1	
Dichlorofluoromethane	<1.0	ug/L	1.0	1		11/01/18 14:52	75-43-4	N3	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		11/01/18 14:52	76-13-1		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 14:52	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 14:52	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 14:52	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 14:52	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 14:52	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 14:52	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 14:52	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 14:52	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 14:52	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	89	%	68-153	1		11/01/18 14:52	17060-07-0		
4-Bromofluorobenzene (S)	102	%	79-124	1		11/01/18 14:52	460-00-4		
Toluene-d8 (S)	99	%	69-124	1		11/01/18 14:52	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

QC Batch:	89666	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
Associated Lab Samples:	7069233001, 7069233002, 7069233003		

METHOD BLANK: 412645 Matrix: Water

Associated Lab Samples: 7069233001, 7069233002, 7069233003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
1,1-Dichloropropene	ug/L	<1.0	1.0	11/01/18 12:28	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	11/01/18 12:28	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,3-Dichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
1,4-Diethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
2-Butanone (MEK)	ug/L	<5.0	5.0	11/01/18 12:28	
2-Chlorotoluene	ug/L	<1.0	1.0	11/01/18 12:28	
2-Hexanone	ug/L	<5.0	5.0	11/01/18 12:28	
4-Chlorotoluene	ug/L	<1.0	1.0	11/01/18 12:28	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	11/01/18 12:28	
Acetone	ug/L	<5.0	5.0	11/01/18 12:28	
Benzene	ug/L	<1.0	1.0	11/01/18 12:28	
Bromobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Bromochloromethane	ug/L	<1.0	1.0	11/01/18 12:28	
Bromodichloromethane	ug/L	<1.0	1.0	11/01/18 12:28	
Bromoform	ug/L	<1.0	1.0	11/01/18 12:28	
Bromomethane	ug/L	<1.0	1.0	11/01/18 12:28	
Carbon disulfide	ug/L	<1.0	1.0	11/01/18 12:28	
Carbon tetrachloride	ug/L	<1.0	1.0	11/01/18 12:28	
Chlorobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Chlorodifluoromethane	ug/L	<1.0	1.0	11/01/18 12:28	CL,N3
Chloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
Chloroform	ug/L	<1.0	1.0	11/01/18 12:28	
Chloromethane	ug/L	<1.0	1.0	11/01/18 12:28	CL
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	11/01/18 12:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

METHOD BLANK: 412645

Matrix: Water

Associated Lab Samples: 7069233001, 7069233002, 7069233003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<1.0	1.0	11/01/18 12:28	
Dibromomethane	ug/L	<1.0	1.0	11/01/18 12:28	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/01/18 12:28	CL
Dichlorofluoromethane	ug/L	<1.0	1.0	11/01/18 12:28	N3
Ethanol	ug/L	<250	250	11/01/18 12:28	
Ethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	11/01/18 12:28	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/01/18 12:28	
Methylene Chloride	ug/L	<1.0	1.0	11/01/18 12:28	
n-Butylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
n-Propylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
p-Isopropyltoluene	ug/L	<1.0	1.0	11/01/18 12:28	
sec-Butylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Styrene	ug/L	<1.0	1.0	11/01/18 12:28	
tert-Butylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Tetrachloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
Toluene	ug/L	<1.0	1.0	11/01/18 12:28	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	11/01/18 12:28	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	11/01/18 12:28	CL,IL
Trichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
Vinyl chloride	ug/L	<1.0	1.0	11/01/18 12:28	CL
Xylene (Total)	ug/L	<3.0	3.0	11/01/18 12:28	
1,2-Dichloroethane-d4 (S)	%	92	68-153	11/01/18 12:28	
4-Bromofluorobenzene (S)	%	103	79-124	11/01/18 12:28	
Toluene-d8 (S)	%	99	69-124	11/01/18 12:28	

LABORATORY CONTROL SAMPLE: 412646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.9	98	74-113	
1,1,1-Trichloroethane	ug/L	50	48.7	97	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	45.0	90	74-121	
1,1,2-Trichloroethane	ug/L	50	50.6	101	80-117	
1,1,2-Trichlorotrifluoroethane	ug/L	50	46.5	93	60-140	
1,1-Dichloroethane	ug/L	50	50.8	102	83-151	
1,1-Dichloroethene	ug/L	50	49.2	98	45-146	
1,1-Dichloropropene	ug/L	50	47.6	95	59-127	
1,2,3-Trichlorobenzene	ug/L	50	53.2	106	67-103	L1
1,2,3-Trichloropropane	ug/L	50	46.5	93	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	48.8	98	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	46.3	93	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	83-115	
1,2-Dichloroethane	ug/L	50	53.2	106	74-129	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

LABORATORY CONTROL SAMPLE: 412646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	50.5	101	75-117	
1,3,5-Trimethylbenzene	ug/L	50	46.0	92	67-116	
1,3-Dichlorobenzene	ug/L	50	46.8	94	71-112	
1,3-Dichloropropane	ug/L	50	46.9	94	74-112	
1,4-Diethylbenzene	ug/L	50	48.5	97	56-130	N3
2,2-Dichloropropane	ug/L	50	50.0	100	63-133	
2-Butanone (MEK)	ug/L	50	49.7	99	44-162	
2-Chlorotoluene	ug/L	50	43.6	87	74-101	
2-Hexanone	ug/L	50	49.2	98	32-183	
4-Chlorotoluene	ug/L	50	46.3	93	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.6	103	69-132	
Acetone	ug/L	50	48.4	97	23-188	
Benzene	ug/L	50	52.0	104	73-119	
Bromobenzene	ug/L	50	47.0	94	72-102	
Bromochloromethane	ug/L	50	59.1	118	81-116	L1
Bromodichloromethane	ug/L	50	51.3	103	78-117	
Bromoform	ug/L	50	47.5	95	65-122	
Bromomethane	ug/L	50	46.0	92	52-147	
Carbon disulfide	ug/L	50	47.7	95	41-144	
Carbon tetrachloride	ug/L	50	48.3	97	59-120	
Chlorobenzene	ug/L	50	48.1	96	75-113	
Chlorodifluoromethane	ug/L	50	38.9	78	43-140	N3
Chloroethane	ug/L	50	41.5	83	49-151	CL
Chloroform	ug/L	50	50.4	101	72-122	
Chloromethane	ug/L	50	38.9	78	46-144	CL
cis-1,2-Dichloroethene	ug/L	50	52.5	105	72-121	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	78-116	
Dibromochloromethane	ug/L	50	52.0	104	70-120	
Dibromomethane	ug/L	50	53.7	107	75-125	
Dichlorodifluoromethane	ug/L	50	27.8	56	22-154	CL
Dichlorofluoromethane	ug/L	50	48.2	96	60-140	N3
Ethanol	ug/L	1250	1410	113	10-151	
Ethylbenzene	ug/L	50	50.1	100	70-113	
Hexachloro-1,3-butadiene	ug/L	50	44.5	89	59-121	
Isopropylbenzene (Cumene)	ug/L	50	46.4	93	67-115	
Methylene Chloride	ug/L	50	50.4	101	61-142	
n-Butylbenzene	ug/L	50	49.2	98	73-107	
n-Propylbenzene	ug/L	50	46.1	92	68-116	
p-Isopropyltoluene	ug/L	50	49.0	98	73-101	
sec-Butylbenzene	ug/L	50	47.0	94	72-103	
Styrene	ug/L	50	49.9	100	72-118	
tert-Butylbenzene	ug/L	50	47.3	95	68-100	
Tetrachloroethene	ug/L	50	48.6	97	60-128	
Toluene	ug/L	50	52.0	104	72-119	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	56-142	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	21.8	44	71-121	CL,IL,L2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

LABORATORY CONTROL SAMPLE: 412646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	50	51.5	103	69-117	
Vinyl chloride	ug/L	50	40.8	82	43-143	CL
Xylene (Total)	ug/L	150	149	99	71-109	
1,2-Dichloroethane-d4 (S)	%			85	68-153	
4-Bromofluorobenzene (S)	%			105	79-124	
Toluene-d8 (S)	%			97	69-124	

MATRIX SPIKE SAMPLE: 412648

Parameter	Units	7069385005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	41.2	82	74-113	
1,1,1-Trichloroethane	ug/L	<1.0	50	42.5	85	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	39.7	79	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	40.7	81	80-117	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	42.3	85	60-140	
1,1-Dichloroethane	ug/L	<1.0	50	42.0	84	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	43.1	86	45-146	
1,1-Dichloropropene	ug/L	<1.0	50	45.1	90	59-127	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	45.1	90	67-103	
1,2,3-Trichloropropane	ug/L	<1.0	50	37.6	75	71-123	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	42.3	85	66-103	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	50	40.8	82	68-116	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	43.4	87	83-115	
1,2-Dichloroethane	ug/L	<1.0	50	40.9	82	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	41.8	84	75-117	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	41.1	82	67-116	
1,3-Dichlorobenzene	ug/L	<1.0	50	39.5	79	71-112	
1,3-Dichloropropane	ug/L	<1.0	50	40.0	80	74-112	
1,4-Diethylbenzene	ug/L	<1.0	50	41.6	83	56-130	N3
2,2-Dichloropropane	ug/L	<1.0	50	45.0	90	63-133	
2-Butanone (MEK)	ug/L	<5.0	50	38.6	77	44-162	
2-Chlorotoluene	ug/L	<1.0	50	39.6	79	74-101	
2-Hexanone	ug/L	<5.0	50	40.8	82	32-183	
4-Chlorotoluene	ug/L	<1.0	50	38.7	77	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	43.3	87	69-132	
Acetone	ug/L	<5.0	50	34.0	68	23-188	
Benzene	ug/L	<1.0	50	44.7	89	73-119	
Bromobenzene	ug/L	<1.0	50	40.2	80	72-102	
Bromochloromethane	ug/L	<1.0	50	45.9	92	81-116	
Bromodichloromethane	ug/L	<1.0	50	43.4	87	78-117	
Bromoform	ug/L	<1.0	50	40.8	82	65-122	
Bromomethane	ug/L	<1.0	50	26.7	53	52-147	
Carbon disulfide	ug/L	<1.0	50	43.6	87	41-144	
Carbon tetrachloride	ug/L	<1.0	50	44.4	89	59-120	
Chlorobenzene	ug/L	<1.0	50	39.4	79	75-113	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

MATRIX SPIKE SAMPLE: 412648		7069385005	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chlorodifluoromethane	ug/L	<1.0	50	34.0	68	43-140	N3
Chloroethane	ug/L	<1.0	50	39.0	78	49-151	CL
Chloroform	ug/L	<1.0	50	43.3	87	72-122	
Chloromethane	ug/L	<1.0	50	30.9	62	46-144	CL
cis-1,2-Dichloroethene	ug/L	3.4	50	48.2	90	72-121	
cis-1,3-Dichloropropene	ug/L	<1.0	50	42.4	85	78-116	
Dibromochloromethane	ug/L	<1.0	50	39.8	80	70-120	
Dibromomethane	ug/L	<1.0	50	41.5	83	75-125	
Dichlorodifluoromethane	ug/L	<1.0	50	19.7	39	22-154	CL
Dichlorofluoromethane	ug/L	<1.0	50	43.7	87	60-140	N3
Ethanol	ug/L	<250	1250	972	78	10-151	
Ethylbenzene	ug/L	<1.0	50	43.2	86	70-113	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	39.5	79	59-121	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	41.2	82	67-115	
Methylene Chloride	ug/L	<1.0	50	39.9	80	61-142	
n-Butylbenzene	ug/L	<1.0	50	42.7	85	73-107	
n-Propylbenzene	ug/L	<1.0	50	41.1	82	68-116	
p-Isopropyltoluene	ug/L	<1.0	50	42.8	86	73-101	
sec-Butylbenzene	ug/L	<1.0	50	42.5	85	72-103	
Styrene	ug/L	<1.0	50	42.6	85	72-118	
tert-Butylbenzene	ug/L	<1.0	50	41.7	83	68-100	
Tetrachloroethene	ug/L	<1.0	50	32.2	64	60-128	
Toluene	ug/L	<1.0	50	45.3	91	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	43.0	86	56-142	
trans-1,3-Dichloropropene	ug/L	<1.0	50	43.1	86	79-116	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	16.3	33	71-121	CL,IL,M0
Trichloroethene	ug/L	7.1	50	51.9	90	69-117	
Vinyl chloride	ug/L	<1.0	50	36.3	73	43-143	CL
Xylene (Total)	ug/L	<3.0	150	127	85	71-109	
1,2-Dichloroethane-d4 (S)	%				89	68-153	
4-Bromofluorobenzene (S)	%				102	79-124	
Toluene-d8 (S)	%				95	69-124	

SAMPLE DUPLICATE: 412647

Parameter	Units	7069385004	Dup	RPD	Qualifiers
		Result	Result		
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,1-Dichloropropene	ug/L	<1.0	<1.0		
1,2,3-Trichlorobenzene	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

SAMPLE DUPLICATE: 412647

Parameter	Units	7069385004 Result	Dup Result	RPD	Qualifiers
1,2,3-Trichloropropane	ug/L	<1.0	<1.0		
1,2,4,5-tetramethylbenzene	ug/L	<1.0	<1.0		N3
1,2,4-Trimethylbenzene	ug/L	<1.0	<1.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3,5-Trimethylbenzene	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,3-Dichloropropane	ug/L	<1.0	<1.0		
1,4-Diethylbenzene	ug/L	<1.0	<1.0		N3
2,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Chlorotoluene	ug/L	<1.0	<1.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Chlorotoluene	ug/L	<1.0	<1.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<1.0	<1.0		
Bromobenzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chlorodifluoromethane	ug/L	<1.0	<1.0		N3
Chloroethane	ug/L	<1.0	<1.0		CL
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		CL
cis-1,2-Dichloroethene	ug/L	4.6	3.8	18	
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dibromomethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		CL
Dichlorofluoromethane	ug/L	<1.0	<1.0		N3
Ethanol	ug/L	<250	<250		
Ethylbenzene	ug/L	<1.0	<1.0		
Hexachloro-1,3-butadiene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
n-Propylbenzene	ug/L	<1.0	<1.0		
p-Isopropyltoluene	ug/L	<1.0	<1.0		
sec-Butylbenzene	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

SAMPLE DUPLICATE: 412647

Parameter	Units	7069385004 Result	Dup Result	RPD	Qualifiers
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
trans-1,4-Dichloro-2-butene	ug/L	<1.0	<1.0		CL,IL
Trichloroethene	ug/L	8.5	8.8	3	
Vinyl chloride	ug/L	<1.0	<1.0		CL
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	91	94	3	
4-Bromofluorobenzene (S)	%	107	96	11	
Toluene-d8 (S)	%	96	94	2	

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QUALIFIERS

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FAIRCHILD ANNUAL 10/26

Pace Project No.: 7069233

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7069233001	MW-42I-20181026	EPA 8260C/5030C	89666		
7069233002	MW-42D-20181026	EPA 8260C/5030C	89666		
7069233003	TB-20181026	EPA 8260C/5030C	89666		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name:

Project

WO#: 7069233

PM: JDS Due Date: 11/06/18

CLIENT: FAIR

Courier: ☐ Fed Ex ☐ UPS ☒ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No

Temperature Blank Present: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Type of Ice: ☒ Wet ☐ Blue ☐ None

Thermometer Used: TH091

Correction Factor:

Cooler Temperature (°C):

Cooler Temperature Corrected (°C):

☒ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents:

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☒ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	6.
Rush Turn Around Time Requested: ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
• -Pace Containers Used: ☒ Yes ☐ No	
Containers Intact: ☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests ☐ Yes ☐ No ☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL	
All containers needing preservation have been checked ☐ Yes ☐ No ☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #	Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) ☐ Yes ☐ No ☒ N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	14.
KI starch test strips Lot #	Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #	
Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present: ☒ Yes ☐ No ☐ N/A	16.
Trip Blank Custody Seals Present ☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if applicable):	

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

November 05, 2018

Daniel St. Germaine
HDR
1 International Blvd.
Mahwah, NJ 07495

RE: Project: FAIRCHILD ANNUAL 10/29
Pace Project No.: 7069385

Dear Daniel Germaine:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: James, Wire to Water Electrical Contractors
Paul Lanzillotta, Wire to Water Electrical Contractors
Caroline Mendoza, Fairchild Corporation
Stuart Skopicki, Wire to Water Electrical Contractors



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: MW-41-20181029		Lab ID: 7069385001		Collected: 10/29/18 11:30		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 15:33	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 15:33	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 15:33	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 15:33	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 15:33	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 15:33	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 15:33	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 15:33	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 15:33	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 15:33	594-20-7		
cis-1,2-Dichloroethene	5.7	ug/L	1.0	1		11/01/18 15:33	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 15:33	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 15:33	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 15:33	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 15:33	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 15:33	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 15:33	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 15:33	107-06-2		
Trichloroethene	2.9	ug/L	1.0	1		11/01/18 15:33	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 15:33	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 15:33	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 15:33	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 15:33	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 15:33	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 15:33	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 15:33	79-00-5		
Tetrachloroethene	18.5	ug/L	1.0	1		11/01/18 15:33	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 15:33	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 15:33	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 15:33	106-93-4		
Chlorobenzene	2.2	ug/L	1.0	1		11/01/18 15:33	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 15:33	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 15:33	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 15:33	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 15:33	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 15:33	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 15:33	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 15:33	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 15:33	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 15:33	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: MW-41-20181029		Lab ID: 7069385001		Collected: 10/29/18 11:30		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 15:33	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 15:33	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 15:33	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 15:33	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 15:33	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 15:33	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 15:33	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 15:33	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 15:33	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 15:33	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:33	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	89	%	68-153	1		11/01/18 15:33	17060-07-0		
4-Bromofluorobenzene (S)	96	%	79-124	1		11/01/18 15:33	460-00-4		
Toluene-d8 (S)	97	%	69-124	1		11/01/18 15:33	2037-26-5		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: MW-431-20181029		Lab ID: 7069385002		Collected: 10/29/18 13:10		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	2.0	ug/L	1.0	1		11/01/18 15:53	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 15:53	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 15:53	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 15:53	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 15:53	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 15:53	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 15:53	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 15:53	156-60-5		
1,1-Dichloroethane	1.2	ug/L	1.0	1		11/01/18 15:53	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 15:53	594-20-7		
cis-1,2-Dichloroethene	5.9	ug/L	1.0	1		11/01/18 15:53	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 15:53	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 15:53	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 15:53	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 15:53	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 15:53	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 15:53	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 15:53	107-06-2		
Trichloroethene	67.4	ug/L	1.0	1		11/01/18 15:53	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 15:53	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 15:53	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 15:53	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 15:53	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 15:53	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 15:53	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 15:53	79-00-5		
Tetrachloroethene	3.0	ug/L	1.0	1		11/01/18 15:53	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 15:53	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 15:53	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 15:53	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 15:53	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 15:53	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 15:53	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 15:53	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 15:53	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 15:53	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 15:53	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 15:53	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 15:53	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: MW-43I-20181029		Lab ID: 7069385002		Collected: 10/29/18 13:10		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 15:53	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 15:53	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 15:53	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 15:53	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 15:53	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 15:53	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 15:53	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 15:53	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 15:53	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 15:53	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 15:53	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	89	%	68-153	1		11/01/18 15:53	17060-07-0		
4-Bromofluorobenzene (S)	102	%	79-124	1		11/01/18 15:53	460-00-4		
Toluene-d8 (S)	97	%	69-124	1		11/01/18 15:53	2037-26-5		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: MW-371-20181029		Lab ID: 7069385003		Collected: 10/29/18 14:45		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 16:14	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 16:14	74-87-3	CL	
Vinyl chloride	10.4	ug/L	1.0	1		11/01/18 16:14	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 16:14	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 16:14	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 16:14	75-09-2		
1,1-Dichloroethene	18.3	ug/L	1.0	1		11/01/18 16:14	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 16:14	156-60-5		
1,1-Dichloroethane	27.7	ug/L	1.0	1		11/01/18 16:14	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:14	594-20-7		
cis-1,2-Dichloroethene	274	ug/L	5.0	5		11/01/18 17:56	156-59-2		
Chloroform	1.2	ug/L	1.0	1		11/01/18 16:14	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 16:14	74-97-5	L1	
1,1,1-Trichloroethane	7.7	ug/L	1.0	1		11/01/18 16:14	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 16:14	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 16:14	563-58-6		
Benzene	1.4	ug/L	1.0	1		11/01/18 16:14	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 16:14	107-06-2		
Trichloroethene	163	ug/L	1.0	1		11/01/18 16:14	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:14	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 16:14	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 16:14	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 16:14	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 16:14	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 16:14	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 16:14	79-00-5		
Tetrachloroethene	65.1	ug/L	1.0	1		11/01/18 16:14	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:14	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 16:14	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 16:14	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 16:14	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 16:14	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 16:14	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 16:14	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 16:14	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 16:14	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:14	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 16:14	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 16:14	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: MW-37I-20181029		Lab ID: 7069385003		Collected: 10/29/18 14:45		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 16:14	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 16:14	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 16:14	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 16:14	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 16:14	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 16:14	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 16:14	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 16:14	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 16:14	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 16:14	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:14	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%	68-153	1		11/01/18 16:14	17060-07-0		
4-Bromofluorobenzene (S)	96	%	79-124	1		11/01/18 16:14	460-00-4		
Toluene-d8 (S)	100	%	69-124	1		11/01/18 16:14	2037-26-5		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: S-66133-20181029		Lab ID: 7069385004		Collected: 10/29/18 15:30		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 16:34	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 16:34	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 16:34	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 16:34	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 16:34	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 16:34	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 16:34	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 16:34	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 16:34	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:34	594-20-7		
cis-1,2-Dichloroethene	4.6	ug/L	1.0	1		11/01/18 16:34	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 16:34	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 16:34	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 16:34	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 16:34	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 16:34	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 16:34	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 16:34	107-06-2		
Trichloroethene	8.5	ug/L	1.0	1		11/01/18 16:34	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:34	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 16:34	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 16:34	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 16:34	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 16:34	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 16:34	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 16:34	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/01/18 16:34	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:34	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 16:34	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 16:34	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 16:34	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 16:34	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 16:34	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 16:34	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 16:34	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 16:34	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:34	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 16:34	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 16:34	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: S-66133-20181029		Lab ID: 7069385004		Collected: 10/29/18 15:30		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 16:34	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 16:34	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 16:34	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 16:34	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 16:34	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 16:34	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 16:34	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 16:34	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 16:34	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 16:34	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:34	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		11/01/18 16:34	17060-07-0		
4-Bromofluorobenzene (S)	107	%	79-124	1		11/01/18 16:34	460-00-4		
Toluene-d8 (S)	96	%	69-124	1		11/01/18 16:34	2037-26-5		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: BD-02-20181029		Lab ID: 7069385005		Collected: 10/29/18 16:05		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 16:55	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 16:55	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 16:55	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 16:55	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 16:55	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 16:55	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 16:55	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 16:55	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 16:55	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:55	594-20-7		
cis-1,2-Dichloroethene	3.4	ug/L	1.0	1		11/01/18 16:55	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 16:55	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 16:55	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 16:55	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 16:55	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 16:55	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 16:55	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 16:55	107-06-2		
Trichloroethene	7.1	ug/L	1.0	1		11/01/18 16:55	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:55	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 16:55	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 16:55	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 16:55	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 16:55	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 16:55	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 16:55	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/01/18 16:55	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:55	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 16:55	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 16:55	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 16:55	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 16:55	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 16:55	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 16:55	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 16:55	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 16:55	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 16:55	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 16:55	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 16:55	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: BD-02-20181029		Lab ID: 7069385005		Collected: 10/29/18 16:05		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 16:55	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 16:55	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 16:55	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 16:55	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 16:55	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 16:55	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 16:55	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 16:55	110-57-6	CL,IL,L2, M0	
Ethanol	<250	ug/L	250	1		11/01/18 16:55	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 16:55	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 16:55	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		11/01/18 16:55	17060-07-0		
4-Bromofluorobenzene (S)	105	%	79-124	1		11/01/18 16:55	460-00-4		
Toluene-d8 (S)	97	%	69-124	1		11/01/18 16:55	2037-26-5		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: MW-461-20181029		Lab ID: 7069385006		Collected: 10/29/18 17:30		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 17:15	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 17:15	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 17:15	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 17:15	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 17:15	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 17:15	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 17:15	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 17:15	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 17:15	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 17:15	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 17:15	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 17:15	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 17:15	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 17:15	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 17:15	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 17:15	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 17:15	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 17:15	107-06-2		
Trichloroethene	16.9	ug/L	1.0	1		11/01/18 17:15	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 17:15	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 17:15	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 17:15	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 17:15	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 17:15	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 17:15	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 17:15	79-00-5		
Tetrachloroethene	1.8	ug/L	1.0	1		11/01/18 17:15	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 17:15	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 17:15	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 17:15	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 17:15	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 17:15	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 17:15	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 17:15	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 17:15	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 17:15	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 17:15	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 17:15	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 17:15	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: MW-46I-20181029		Lab ID: 7069385006		Collected: 10/29/18 17:30		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 17:15	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 17:15	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 17:15	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 17:15	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 17:15	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 17:15	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 17:15	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 17:15	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 17:15	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 17:15	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:15	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	89	%	68-153	1		11/01/18 17:15	17060-07-0		
4-Bromofluorobenzene (S)	96	%	79-124	1		11/01/18 17:15	460-00-4		
Toluene-d8 (S)	93	%	69-124	1		11/01/18 17:15	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: TB-02-20181029		Lab ID: 7069385007		Collected: 10/29/18 00:00		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 17:36	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 17:36	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 17:36	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 17:36	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 17:36	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 17:36	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 17:36	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 17:36	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 17:36	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 17:36	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 17:36	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 17:36	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 17:36	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 17:36	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 17:36	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 17:36	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 17:36	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 17:36	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		11/01/18 17:36	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 17:36	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 17:36	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 17:36	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 17:36	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 17:36	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 17:36	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 17:36	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/01/18 17:36	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 17:36	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 17:36	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 17:36	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 17:36	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 17:36	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 17:36	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 17:36	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 17:36	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 17:36	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 17:36	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 17:36	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 17:36	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	98-06-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Sample: TB-02-20181029		Lab ID: 7069385007		Collected: 10/29/18 00:00		Received: 10/29/18 17:53		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 17:36	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 17:36	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 17:36	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 17:36	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 17:36	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 17:36	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 17:36	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 17:36	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 17:36	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 17:36	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 17:36	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	68-153	1		11/01/18 17:36	17060-07-0		
4-Bromofluorobenzene (S)	102	%	79-124	1		11/01/18 17:36	460-00-4		
Toluene-d8 (S)	99	%	69-124	1		11/01/18 17:36	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

QC Batch: 89666 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7069385001, 7069385002, 7069385003, 7069385004, 7069385005, 7069385006, 7069385007

METHOD BLANK: 412645 Matrix: Water
Associated Lab Samples: 7069385001, 7069385002, 7069385003, 7069385004, 7069385005, 7069385006, 7069385007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
1,1-Dichloropropene	ug/L	<1.0	1.0	11/01/18 12:28	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	11/01/18 12:28	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,3-Dichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
1,4-Diethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
2-Butanone (MEK)	ug/L	<5.0	5.0	11/01/18 12:28	
2-Chlorotoluene	ug/L	<1.0	1.0	11/01/18 12:28	
2-Hexanone	ug/L	<5.0	5.0	11/01/18 12:28	
4-Chlorotoluene	ug/L	<1.0	1.0	11/01/18 12:28	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	11/01/18 12:28	
Acetone	ug/L	<5.0	5.0	11/01/18 12:28	
Benzene	ug/L	<1.0	1.0	11/01/18 12:28	
Bromobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Bromochloromethane	ug/L	<1.0	1.0	11/01/18 12:28	
Bromodichloromethane	ug/L	<1.0	1.0	11/01/18 12:28	
Bromoform	ug/L	<1.0	1.0	11/01/18 12:28	
Bromomethane	ug/L	<1.0	1.0	11/01/18 12:28	
Carbon disulfide	ug/L	<1.0	1.0	11/01/18 12:28	
Carbon tetrachloride	ug/L	<1.0	1.0	11/01/18 12:28	
Chlorobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Chlorodifluoromethane	ug/L	<1.0	1.0	11/01/18 12:28	CL,N3
Chloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
Chloroform	ug/L	<1.0	1.0	11/01/18 12:28	
Chloromethane	ug/L	<1.0	1.0	11/01/18 12:28	CL
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	11/01/18 12:28	
Dibromochloromethane	ug/L	<1.0	1.0	11/01/18 12:28	

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

METHOD BLANK: 412645

Matrix: Water

Associated Lab Samples: 7069385001, 7069385002, 7069385003, 7069385004, 7069385005, 7069385006, 7069385007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	11/01/18 12:28	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/01/18 12:28	CL
Ethanol	ug/L	<250	250	11/01/18 12:28	
Ethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	11/01/18 12:28	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/01/18 12:28	
Methylene Chloride	ug/L	<1.0	1.0	11/01/18 12:28	
n-Butylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
n-Propylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
p-Isopropyltoluene	ug/L	<1.0	1.0	11/01/18 12:28	
sec-Butylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Styrene	ug/L	<1.0	1.0	11/01/18 12:28	
tert-Butylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Tetrachloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
Toluene	ug/L	<1.0	1.0	11/01/18 12:28	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	11/01/18 12:28	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	11/01/18 12:28	CL,IL
Trichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
Vinyl chloride	ug/L	<1.0	1.0	11/01/18 12:28	CL
Xylene (Total)	ug/L	<3.0	3.0	11/01/18 12:28	
1,2-Dichloroethane-d4 (S)	%	92	68-153	11/01/18 12:28	
4-Bromofluorobenzene (S)	%	103	79-124	11/01/18 12:28	
Toluene-d8 (S)	%	99	69-124	11/01/18 12:28	

LABORATORY CONTROL SAMPLE: 412646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.9	98	74-113	
1,1,1-Trichloroethane	ug/L	50	48.7	97	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	45.0	90	74-121	
1,1,2-Trichloroethane	ug/L	50	50.6	101	80-117	
1,1-Dichloroethane	ug/L	50	50.8	102	83-151	
1,1-Dichloroethene	ug/L	50	49.2	98	45-146	
1,1-Dichloropropene	ug/L	50	47.6	95	59-127	
1,2,3-Trichlorobenzene	ug/L	50	53.2	106	67-103	L1
1,2,3-Trichloropropane	ug/L	50	46.5	93	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	48.8	98	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	46.3	93	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	83-115	
1,2-Dichloroethane	ug/L	50	53.2	106	74-129	
1,2-Dichloropropane	ug/L	50	50.5	101	75-117	
1,3,5-Trimethylbenzene	ug/L	50	46.0	92	67-116	
1,3-Dichlorobenzene	ug/L	50	46.8	94	71-112	

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

LABORATORY CONTROL SAMPLE: 412646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	46.9	94	74-112	
1,4-Diethylbenzene	ug/L	50	48.5	97	56-130	N3
2,2-Dichloropropane	ug/L	50	50.0	100	63-133	
2-Butanone (MEK)	ug/L	50	49.7	99	44-162	
2-Chlorotoluene	ug/L	50	43.6	87	74-101	
2-Hexanone	ug/L	50	49.2	98	32-183	
4-Chlorotoluene	ug/L	50	46.3	93	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.6	103	69-132	
Acetone	ug/L	50	48.4	97	23-188	
Benzene	ug/L	50	52.0	104	73-119	
Bromobenzene	ug/L	50	47.0	94	72-102	
Bromochloromethane	ug/L	50	59.1	118	81-116	L1
Bromodichloromethane	ug/L	50	51.3	103	78-117	
Bromoform	ug/L	50	47.5	95	65-122	
Bromomethane	ug/L	50	46.0	92	52-147	
Carbon disulfide	ug/L	50	47.7	95	41-144	
Carbon tetrachloride	ug/L	50	48.3	97	59-120	
Chlorobenzene	ug/L	50	48.1	96	75-113	
Chlorodifluoromethane	ug/L	50	38.9	78	43-140	N3
Chloroethane	ug/L	50	41.5	83	49-151	CL
Chloroform	ug/L	50	50.4	101	72-122	
Chloromethane	ug/L	50	38.9	78	46-144	CL
cis-1,2-Dichloroethene	ug/L	50	52.5	105	72-121	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	78-116	
Dibromochloromethane	ug/L	50	52.0	104	70-120	
Dibromomethane	ug/L	50	53.7	107	75-125	
Dichlorodifluoromethane	ug/L	50	27.8	56	22-154	CL
Ethanol	ug/L	1250	1410	113	10-151	
Ethylbenzene	ug/L	50	50.1	100	70-113	
Hexachloro-1,3-butadiene	ug/L	50	44.5	89	59-121	
Isopropylbenzene (Cumene)	ug/L	50	46.4	93	67-115	
Methylene Chloride	ug/L	50	50.4	101	61-142	
n-Butylbenzene	ug/L	50	49.2	98	73-107	
n-Propylbenzene	ug/L	50	46.1	92	68-116	
p-Isopropyltoluene	ug/L	50	49.0	98	73-101	
sec-Butylbenzene	ug/L	50	47.0	94	72-103	
Styrene	ug/L	50	49.9	100	72-118	
tert-Butylbenzene	ug/L	50	47.3	95	68-100	
Tetrachloroethene	ug/L	50	48.6	97	60-128	
Toluene	ug/L	50	52.0	104	72-119	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	56-142	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	21.8	44	71-121	CL,IL,L2
Trichloroethene	ug/L	50	51.5	103	69-117	
Vinyl chloride	ug/L	50	40.8	82	43-143	CL
Xylene (Total)	ug/L	150	149	99	71-109	
1,2-Dichloroethane-d4 (S)	%			85	68-153	

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

LABORATORY CONTROL SAMPLE: 412646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			105	79-124	
Toluene-d8 (S)	%			97	69-124	

MATRIX SPIKE SAMPLE: 412648

Parameter	Units	7069385005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	41.2	82	74-113	
1,1,1-Trichloroethane	ug/L	<1.0	50	42.5	85	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	39.7	79	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	40.7	81	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	42.0	84	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	43.1	86	45-146	
1,1-Dichloropropene	ug/L	<1.0	50	45.1	90	59-127	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	45.1	90	67-103	
1,2,3-Trichloropropane	ug/L	<1.0	50	37.6	75	71-123	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	42.3	85	66-103	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	50	40.8	82	68-116	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	43.4	87	83-115	
1,2-Dichloroethane	ug/L	<1.0	50	40.9	82	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	41.8	84	75-117	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	41.1	82	67-116	
1,3-Dichlorobenzene	ug/L	<1.0	50	39.5	79	71-112	
1,3-Dichloropropane	ug/L	<1.0	50	40.0	80	74-112	
1,4-Diethylbenzene	ug/L	<1.0	50	41.6	83	56-130	N3
2,2-Dichloropropane	ug/L	<1.0	50	45.0	90	63-133	
2-Butanone (MEK)	ug/L	<5.0	50	38.6	77	44-162	
2-Chlorotoluene	ug/L	<1.0	50	39.6	79	74-101	
2-Hexanone	ug/L	<5.0	50	40.8	82	32-183	
4-Chlorotoluene	ug/L	<1.0	50	38.7	77	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	43.3	87	69-132	
Acetone	ug/L	<5.0	50	34.0	68	23-188	
Benzene	ug/L	<1.0	50	44.7	89	73-119	
Bromobenzene	ug/L	<1.0	50	40.2	80	72-102	
Bromochloromethane	ug/L	<1.0	50	45.9	92	81-116	
Bromodichloromethane	ug/L	<1.0	50	43.4	87	78-117	
Bromoform	ug/L	<1.0	50	40.8	82	65-122	
Bromomethane	ug/L	<1.0	50	26.7	53	52-147	
Carbon disulfide	ug/L	<1.0	50	43.6	87	41-144	
Carbon tetrachloride	ug/L	<1.0	50	44.4	89	59-120	
Chlorobenzene	ug/L	<1.0	50	39.4	79	75-113	
Chlorodifluoromethane	ug/L	<1.0	50	34.0	68	43-140	N3
Chloroethane	ug/L	<1.0	50	39.0	78	49-151	CL
Chloroform	ug/L	<1.0	50	43.3	87	72-122	
Chloromethane	ug/L	<1.0	50	30.9	62	46-144	CL
cis-1,2-Dichloroethene	ug/L	3.4	50	48.2	90	72-121	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

MATRIX SPIKE SAMPLE: 412648		7069385005	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
cis-1,3-Dichloropropene	ug/L	<1.0	50	42.4	85	78-116	
Dibromochloromethane	ug/L	<1.0	50	39.8	80	70-120	
Dibromomethane	ug/L	<1.0	50	41.5	83	75-125	
Dichlorodifluoromethane	ug/L	<1.0	50	19.7	39	22-154	CL
Ethanol	ug/L	<250	1250	972	78	10-151	
Ethylbenzene	ug/L	<1.0	50	43.2	86	70-113	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	39.5	79	59-121	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	41.2	82	67-115	
Methylene Chloride	ug/L	<1.0	50	39.9	80	61-142	
n-Butylbenzene	ug/L	<1.0	50	42.7	85	73-107	
n-Propylbenzene	ug/L	<1.0	50	41.1	82	68-116	
p-Isopropyltoluene	ug/L	<1.0	50	42.8	86	73-101	
sec-Butylbenzene	ug/L	<1.0	50	42.5	85	72-103	
Styrene	ug/L	<1.0	50	42.6	85	72-118	
tert-Butylbenzene	ug/L	<1.0	50	41.7	83	68-100	
Tetrachloroethene	ug/L	<1.0	50	32.2	64	60-128	
Toluene	ug/L	<1.0	50	45.3	91	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	43.0	86	56-142	
trans-1,3-Dichloropropene	ug/L	<1.0	50	43.1	86	79-116	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	16.3	33	71-121	CL,IL,M0
Trichloroethene	ug/L	7.1	50	51.9	90	69-117	
Vinyl chloride	ug/L	<1.0	50	36.3	73	43-143	CL
Xylene (Total)	ug/L	<3.0	150	127	85	71-109	
1,2-Dichloroethane-d4 (S)	%				89	68-153	
4-Bromofluorobenzene (S)	%				102	79-124	
Toluene-d8 (S)	%				95	69-124	

SAMPLE DUPLICATE: 412647

Parameter	Units	7069385004	Dup	RPD	Qualifiers
		Result	Result		
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,1-Dichloropropene	ug/L	<1.0	<1.0		
1,2,3-Trichlorobenzene	ug/L	<1.0	<1.0		
1,2,3-Trichloropropane	ug/L	<1.0	<1.0		
1,2,4,5-tetramethylbenzene	ug/L	<1.0	<1.0		N3
1,2,4-Trimethylbenzene	ug/L	<1.0	<1.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3,5-Trimethylbenzene	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

SAMPLE DUPLICATE: 412647

Parameter	Units	7069385004 Result	Dup Result	RPD	Qualifiers
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,3-Dichloropropane	ug/L	<1.0	<1.0		
1,4-Diethylbenzene	ug/L	<1.0	<1.0		N3
2,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Chlorotoluene	ug/L	<1.0	<1.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Chlorotoluene	ug/L	<1.0	<1.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<1.0	<1.0		
Bromobenzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chlorodifluoromethane	ug/L	<1.0	<1.0		N3
Chloroethane	ug/L	<1.0	<1.0		CL
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		CL
cis-1,2-Dichloroethene	ug/L	4.6	3.8	18	
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dibromomethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		CL
Ethanol	ug/L	<250	<250		
Ethylbenzene	ug/L	<1.0	<1.0		
Hexachloro-1,3-butadiene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
n-Propylbenzene	ug/L	<1.0	<1.0		
p-Isopropyltoluene	ug/L	<1.0	<1.0		
sec-Butylbenzene	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
trans-1,4-Dichloro-2-butene	ug/L	<1.0	<1.0		CL,IL
Trichloroethene	ug/L	8.5	8.8	3	
Vinyl chloride	ug/L	<1.0	<1.0		CL
Xylene (Total)	ug/L	<3.0	<3.0		

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

SAMPLE DUPLICATE: 412647

Parameter	Units	7069385004 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	91	94	3	
4-Bromofluorobenzene (S)	%	107	96	11	
Toluene-d8 (S)	%	96	94	2	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FAIRCHILD ANNUAL 10/29

Pace Project No.: 7069385

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7069385001	MW-41-20181029	EPA 8260C/5030C	89666		
7069385002	MW-43I-20181029	EPA 8260C/5030C	89666		
7069385003	MW-37I-20181029	EPA 8260C/5030C	89666		
7069385004	S-66133-20181029	EPA 8260C/5030C	89666		
7069385005	BD-02-20181029	EPA 8260C/5030C	89666		
7069385006	MW-46I-20181029	EPA 8260C/5030C	89666		
7069385007	TB-02-20181029	EPA 8260C/5030C	89666		

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WO#: 7069385



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:Section C
Invoice Information:

Company: HDR	Report To: HDR	Attention: Dan St. Germain	Page: 1 of 1
Address: One International Blvd #10 Mahwah, NJ 07445	Copy To:	Company Name: HDR	2282047
Email To: Dan.St.Germain@HDRINC.COM	Purchase Order No.:	Address: One International Blvd Mahwah, NJ 07445	REGULATORY AGENCY
Phone: (201) 335-9338 Fax:	Project Name: Fairchild Annual	Pace Quote Reference:	☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
Requested Due Date/TAT:	Project Number: 10025227-004	Pace Project Manager:	☐ UST ☐ RCRA ☐ OTHER
		Site Location STATE: NY	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB								
1	MW-41-20181029	DW	DATE	TIME	G	10/24/18	1130					001
2	MW-43J-20181029	WT	DATE	TIME	G	10/24/18	1310					002
3	MW-37J-20181029	WW	DATE	TIME	G	10/24/18	1445					003
4	MW-66133-20181029	P	DATE	TIME	G	10/24/18	1530					004
5	BD-20181029	SL	DATE	TIME	G	10/24/18	1605					005
6	MW-46J-20181029	Product	DATE	TIME	G	10/24/18	1730					006
7	TR-02-20181029	Soil/Solid	DATE	TIME	W	10/24/18						007
8		Oil										
9		Wipe										
10		Air										
11		Tissue										
12		Other										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS
	SIGNATURE	DATE	SIGNATURE	DATE			
					10/24/18	17:53	Y N Y

ORIGINAL	SAMPLER NAME AND SIGNATURE				Temp in °C	Received on	Custody	Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PRINT Name of SAMPLER: MTP / KLM								
	SIGNATURE of SAMPLER: [Signature]								
				DATE Signed (MM/DD/YY): 10/24/18					



Sample Condition Upon Receipt

Client Name:

HDR

Proje

WO#: 7069385

PM: JDS Due Date: 11/08/18

CLIENT: FAIR

Courier: ☐ Fed Ex ☐ UPS ☒ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH091

Correction Factor:

0.0

Cooler Temperature (°C): 5.2

Cooler Temperature Corrected (°C):

5.2

Temp should be above freezing to 6.0°C

USDA Regulated Soil ☒ N/A, water sample

Date and Initials of person examining contents:

AD 11/29/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☒ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	6.
Rush Turn Around Time Requested: ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	
Containers Intact: ☐ Yes ☐ No	10.
Filtered volume received for Dissolved tests ☐ Yes ☐ No ☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL	
All containers needing preservation have been checked ☒ Yes ☐ No ☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #	Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) ☐ Yes ☐ No ☒ N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #	
Residual chlorine strips Lot #	
Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present: ☒ Yes ☐ No ☐ N/A	16.
Trip Blank Custody Seals Present ☐ Yes ☒ No ☐ N/A	
Pace Trip Blank Lot # (if applicable):	

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

November 05, 2018

Daniel St. Germaine
HDR
1 International Blvd.
Mahwah, NJ 07495

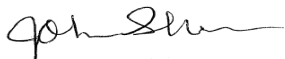
RE: Project: FAIRCHILD ANNUAL 10/30
Pace Project No.: 7069486

Dear Daniel Germaine:

Enclosed are the analytical results for sample(s) received by the laboratory on October 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: James, Wire to Water Electrical Contractors
Paul Lanzillotta, Wire to Water Electrical Contractors
Caroline Mendoza, Fairchild Corporation
Stuart Skopicki, Wire to Water Electrical Contractors



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Sample: MW-49I-20181030		Lab ID: 7069486001	Collected: 10/30/18 09:40	Received: 10/30/18 16:23	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 18:17	75-71-8	CL
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 18:17	74-87-3	CL
Vinyl chloride	9.2	ug/L	1.0	1		11/01/18 18:17	75-01-4	CL
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 18:17	75-00-3	CL
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 18:17	74-83-9	
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 18:17	75-09-2	
1,1-Dichloroethene	1.4	ug/L	1.0	1		11/01/18 18:17	75-35-4	
trans-1,2-Dichloroethene	9.2	ug/L	1.0	1		11/01/18 18:17	156-60-5	
1,1-Dichloroethane	3.4	ug/L	1.0	1		11/01/18 18:17	75-34-3	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:17	594-20-7	
cis-1,2-Dichloroethene	151	ug/L	1.0	1		11/01/18 18:17	156-59-2	
Chloroform	<1.0	ug/L	1.0	1		11/01/18 18:17	67-66-3	
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 18:17	74-97-5	L1
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 18:17	71-55-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 18:17	56-23-5	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 18:17	563-58-6	
Benzene	<1.0	ug/L	1.0	1		11/01/18 18:17	71-43-2	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 18:17	107-06-2	
Trichloroethene	39.3	ug/L	1.0	1		11/01/18 18:17	79-01-6	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:17	78-87-5	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 18:17	75-27-4	
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 18:17	74-95-3	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 18:17	10061-02-6	
Toluene	<1.0	ug/L	1.0	1		11/01/18 18:17	108-88-3	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 18:17	10061-01-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 18:17	79-00-5	
Tetrachloroethene	7.1	ug/L	1.0	1		11/01/18 18:17	127-18-4	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:17	142-28-9	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 18:17	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 18:17	106-93-4	
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	108-90-7	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 18:17	630-20-6	
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	100-41-4	
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 18:17	1330-20-7	
Styrene	<1.0	ug/L	1.0	1		11/01/18 18:17	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		11/01/18 18:17	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 18:17	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 18:17	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:17	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 18:17	95-49-8	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 18:17	106-43-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	98-06-6	

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Sample: MW-49I-20181030		Lab ID: 7069486001	Collected: 10/30/18 09:40	Received: 10/30/18 16:23	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 18:17	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 18:17	87-68-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	87-61-6	L1
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 18:17	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 18:17	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 18:17	75-15-0	
Acetone	<5.0	ug/L	5.0	1		11/01/18 18:17	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 18:17	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 18:17	110-57-6	CL,IL,L2
Ethanol	<250	ug/L	250	1		11/01/18 18:17	64-17-5	
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 18:17	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:17	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	68-153	1		11/01/18 18:17	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-124	1		11/01/18 18:17	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		11/01/18 18:17	2037-26-5	

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Sample: MW-49D-20181030		Lab ID: 7069486002		Collected: 10/30/18 10:15		Received: 10/30/18 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 18:37	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 18:37	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 18:37	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 18:37	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 18:37	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 18:37	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 18:37	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 18:37	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 18:37	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:37	594-20-7		
cis-1,2-Dichloroethene	13.6	ug/L	1.0	1		11/01/18 18:37	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 18:37	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 18:37	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 18:37	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 18:37	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 18:37	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 18:37	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 18:37	107-06-2		
Trichloroethene	17.5	ug/L	1.0	1		11/01/18 18:37	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:37	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 18:37	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 18:37	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 18:37	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 18:37	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 18:37	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 18:37	79-00-5		
Tetrachloroethene	95.5	ug/L	1.0	1		11/01/18 18:37	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:37	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 18:37	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 18:37	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 18:37	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 18:37	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 18:37	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 18:37	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 18:37	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 18:37	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:37	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 18:37	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 18:37	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Sample: MW-49D-20181030		Lab ID: 7069486002		Collected: 10/30/18 10:15		Received: 10/30/18 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 18:37	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 18:37	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 18:37	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 18:37	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 18:37	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 18:37	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 18:37	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 18:37	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 18:37	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 18:37	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:37	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	68-153	1		11/01/18 18:37	17060-07-0		
4-Bromofluorobenzene (S)	97	%	79-124	1		11/01/18 18:37	460-00-4		
Toluene-d8 (S)	96	%	69-124	1		11/01/18 18:37	2037-26-5		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Sample: MW-50-20181030		Lab ID: 7069486003		Collected: 10/30/18 11:40		Received: 10/30/18 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 18:57	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 18:57	74-87-3	CL	
Vinyl chloride	16.6	ug/L	1.0	1		11/01/18 18:57	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 18:57	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 18:57	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 18:57	75-09-2		
1,1-Dichloroethene	23.8	ug/L	1.0	1		11/01/18 18:57	75-35-4		
trans-1,2-Dichloroethene	1.2	ug/L	1.0	1		11/01/18 18:57	156-60-5		
1,1-Dichloroethane	24.8	ug/L	1.0	1		11/01/18 18:57	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:57	594-20-7		
cis-1,2-Dichloroethene	269	ug/L	10.0	10		11/02/18 18:03	156-59-2		
Chloroform	3.9	ug/L	1.0	1		11/01/18 18:57	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 18:57	74-97-5	L1	
1,1,1-Trichloroethane	7.3	ug/L	1.0	1		11/01/18 18:57	71-55-6		
Carbon tetrachloride	2.1	ug/L	1.0	1		11/01/18 18:57	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 18:57	563-58-6		
Benzene	5.4	ug/L	1.0	1		11/01/18 18:57	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 18:57	107-06-2		
Trichloroethene	728	ug/L	10.0	10		11/02/18 18:03	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:57	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 18:57	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 18:57	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 18:57	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 18:57	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 18:57	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 18:57	79-00-5		
Tetrachloroethene	45.6	ug/L	1.0	1		11/01/18 18:57	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:57	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 18:57	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 18:57	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 18:57	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 18:57	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 18:57	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 18:57	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 18:57	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 18:57	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 18:57	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 18:57	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 18:57	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Sample: MW-50-20181030		Lab ID: 7069486003		Collected: 10/30/18 11:40		Received: 10/30/18 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 18:57	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 18:57	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 18:57	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 18:57	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 18:57	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 18:57	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 18:57	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 18:57	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 18:57	64-17-5		
Chlorodifluoromethane	2.5	ug/L	1.0	1		11/01/18 18:57	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 18:57	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%	68-153	1		11/01/18 18:57	17060-07-0		
4-Bromofluorobenzene (S)	95	%	79-124	1		11/01/18 18:57	460-00-4		
Toluene-d8 (S)	96	%	69-124	1		11/01/18 18:57	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Sample: S-66134-20181030		Lab ID: 7069486004		Collected: 10/30/18 14:25		Received: 10/30/18 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 19:18	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 19:18	74-87-3	CL	
Vinyl chloride	2.1	ug/L	1.0	1		11/01/18 19:18	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 19:18	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 19:18	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 19:18	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 19:18	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 19:18	156-60-5		
1,1-Dichloroethane	2.7	ug/L	1.0	1		11/01/18 19:18	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 19:18	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 19:18	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 19:18	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 19:18	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 19:18	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 19:18	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 19:18	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 19:18	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 19:18	107-06-2		
Trichloroethene	1.5	ug/L	1.0	1		11/01/18 19:18	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 19:18	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 19:18	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 19:18	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 19:18	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 19:18	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 19:18	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 19:18	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/01/18 19:18	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 19:18	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 19:18	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 19:18	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 19:18	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 19:18	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 19:18	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 19:18	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 19:18	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 19:18	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 19:18	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 19:18	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 19:18	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Sample: S-66134-20181030		Lab ID: 7069486004		Collected: 10/30/18 14:25		Received: 10/30/18 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 19:18	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 19:18	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 19:18	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 19:18	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 19:18	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 19:18	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 19:18	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 19:18	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 19:18	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 19:18	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:18	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	93	%	68-153	1		11/01/18 19:18	17060-07-0		
4-Bromofluorobenzene (S)	104	%	79-124	1		11/01/18 19:18	460-00-4		
Toluene-d8 (S)	98	%	69-124	1		11/01/18 19:18	2037-26-5		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Sample: TB-03-20181030		Lab ID: 7069486005		Collected: 10/30/18 00:00		Received: 10/30/18 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 19:38	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		11/01/18 19:38	74-87-3	CL	
Vinyl chloride	<1.0	ug/L	1.0	1		11/01/18 19:38	75-01-4	CL	
Chloroethane	<1.0	ug/L	1.0	1		11/01/18 19:38	75-00-3	CL	
Bromomethane	<1.0	ug/L	1.0	1		11/01/18 19:38	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		11/01/18 19:38	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 19:38	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 19:38	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 19:38	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 19:38	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/01/18 19:38	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		11/01/18 19:38	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		11/01/18 19:38	74-97-5	L1	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 19:38	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/01/18 19:38	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 19:38	563-58-6		
Benzene	<1.0	ug/L	1.0	1		11/01/18 19:38	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/01/18 19:38	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		11/01/18 19:38	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 19:38	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/01/18 19:38	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/01/18 19:38	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 19:38	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		11/01/18 19:38	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/01/18 19:38	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/01/18 19:38	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/01/18 19:38	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/01/18 19:38	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/01/18 19:38	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/01/18 19:38	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 19:38	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/01/18 19:38	1330-20-7		
Styrene	<1.0	ug/L	1.0	1		11/01/18 19:38	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		11/01/18 19:38	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/01/18 19:38	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/01/18 19:38	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/01/18 19:38	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 19:38	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/01/18 19:38	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	98-06-6		

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ANALYTICAL RESULTS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Sample: TB-03-20181030		Lab ID: 7069486005		Collected: 10/30/18 00:00		Received: 10/30/18 16:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/01/18 19:38	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/01/18 19:38	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	87-61-6	L1	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/01/18 19:38	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/01/18 19:38	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/01/18 19:38	75-15-0		
Acetone	<5.0	ug/L	5.0	1		11/01/18 19:38	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/01/18 19:38	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/01/18 19:38	110-57-6	CL,IL,L2	
Ethanol	<250	ug/L	250	1		11/01/18 19:38	64-17-5		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/01/18 19:38	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/01/18 19:38	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%	68-153	1		11/01/18 19:38	17060-07-0		
4-Bromofluorobenzene (S)	103	%	79-124	1		11/01/18 19:38	460-00-4		
Toluene-d8 (S)	101	%	69-124	1		11/01/18 19:38	2037-26-5		

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

QC Batch: 89666 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7069486001, 7069486002, 7069486003, 7069486004, 7069486005

METHOD BLANK: 412645 Matrix: Water
Associated Lab Samples: 7069486001, 7069486002, 7069486003, 7069486004, 7069486005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
1,1-Dichloropropene	ug/L	<1.0	1.0	11/01/18 12:28	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	11/01/18 12:28	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
1,3-Dichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
1,4-Diethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	11/01/18 12:28	
2-Butanone (MEK)	ug/L	<5.0	5.0	11/01/18 12:28	
2-Chlorotoluene	ug/L	<1.0	1.0	11/01/18 12:28	
2-Hexanone	ug/L	<5.0	5.0	11/01/18 12:28	
4-Chlorotoluene	ug/L	<1.0	1.0	11/01/18 12:28	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	11/01/18 12:28	
Acetone	ug/L	<5.0	5.0	11/01/18 12:28	
Benzene	ug/L	<1.0	1.0	11/01/18 12:28	
Bromobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Bromochloromethane	ug/L	<1.0	1.0	11/01/18 12:28	
Bromodichloromethane	ug/L	<1.0	1.0	11/01/18 12:28	
Bromoform	ug/L	<1.0	1.0	11/01/18 12:28	
Bromomethane	ug/L	<1.0	1.0	11/01/18 12:28	
Carbon disulfide	ug/L	<1.0	1.0	11/01/18 12:28	
Carbon tetrachloride	ug/L	<1.0	1.0	11/01/18 12:28	
Chlorobenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Chlorodifluoromethane	ug/L	<1.0	1.0	11/01/18 12:28	CL,N3
Chloroethane	ug/L	<1.0	1.0	11/01/18 12:28	
Chloroform	ug/L	<1.0	1.0	11/01/18 12:28	
Chloromethane	ug/L	<1.0	1.0	11/01/18 12:28	CL
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	11/01/18 12:28	
Dibromochloromethane	ug/L	<1.0	1.0	11/01/18 12:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

METHOD BLANK: 412645

Matrix: Water

Associated Lab Samples: 7069486001, 7069486002, 7069486003, 7069486004, 7069486005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	11/01/18 12:28	CL
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/01/18 12:28	
Ethanol	ug/L	<250	250	11/01/18 12:28	
Ethylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	11/01/18 12:28	CL,IL
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/01/18 12:28	
Methylene Chloride	ug/L	<1.0	1.0	11/01/18 12:28	
n-Butylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
n-Propylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
p-Isopropyltoluene	ug/L	<1.0	1.0	11/01/18 12:28	
sec-Butylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Styrene	ug/L	<1.0	1.0	11/01/18 12:28	
tert-Butylbenzene	ug/L	<1.0	1.0	11/01/18 12:28	
Tetrachloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
Toluene	ug/L	<1.0	1.0	11/01/18 12:28	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	11/01/18 12:28	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	11/01/18 12:28	
Trichloroethene	ug/L	<1.0	1.0	11/01/18 12:28	
Vinyl chloride	ug/L	<1.0	1.0	11/01/18 12:28	CL
Xylene (Total)	ug/L	<3.0	3.0	11/01/18 12:28	
1,2-Dichloroethane-d4 (S)	%	92	68-153	11/01/18 12:28	
4-Bromofluorobenzene (S)	%	103	79-124	11/01/18 12:28	
Toluene-d8 (S)	%	99	69-124	11/01/18 12:28	

LABORATORY CONTROL SAMPLE: 412646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.9	98	74-113	
1,1,1-Trichloroethane	ug/L	50	48.7	97	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	45.0	90	74-121	
1,1,2-Trichloroethane	ug/L	50	50.6	101	80-117	
1,1-Dichloroethane	ug/L	50	50.8	102	83-151	
1,1-Dichloroethene	ug/L	50	49.2	98	45-146	
1,1-Dichloropropene	ug/L	50	47.6	95	59-127	
1,2,3-Trichlorobenzene	ug/L	50	53.2	106	67-103	L1
1,2,3-Trichloropropane	ug/L	50	46.5	93	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	48.8	98	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	46.3	93	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	83-115	
1,2-Dichloroethane	ug/L	50	53.2	106	74-129	
1,2-Dichloropropane	ug/L	50	50.5	101	75-117	
1,3,5-Trimethylbenzene	ug/L	50	46.0	92	67-116	
1,3-Dichlorobenzene	ug/L	50	46.8	94	71-112	

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

LABORATORY CONTROL SAMPLE: 412646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	46.9	94	74-112	
1,4-Diethylbenzene	ug/L	50	48.5	97	56-130	N3
2,2-Dichloropropane	ug/L	50	50.0	100	63-133	
2-Butanone (MEK)	ug/L	50	49.7	99	44-162	
2-Chlorotoluene	ug/L	50	43.6	87	74-101	
2-Hexanone	ug/L	50	49.2	98	32-183	
4-Chlorotoluene	ug/L	50	46.3	93	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.6	103	69-132	
Acetone	ug/L	50	48.4	97	23-188	
Benzene	ug/L	50	52.0	104	73-119	
Bromobenzene	ug/L	50	47.0	94	72-102	
Bromochloromethane	ug/L	50	59.1	118	81-116	L1
Bromodichloromethane	ug/L	50	51.3	103	78-117	
Bromoform	ug/L	50	47.5	95	65-122	
Bromomethane	ug/L	50	46.0	92	52-147	
Carbon disulfide	ug/L	50	47.7	95	41-144	
Carbon tetrachloride	ug/L	50	48.3	97	59-120	
Chlorobenzene	ug/L	50	48.1	96	75-113	
Chlorodifluoromethane	ug/L	50	38.9	78	43-140	N3
Chloroethane	ug/L	50	41.5	83	49-151	CL
Chloroform	ug/L	50	50.4	101	72-122	
Chloromethane	ug/L	50	38.9	78	46-144	CL
cis-1,2-Dichloroethene	ug/L	50	52.5	105	72-121	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	78-116	
Dibromochloromethane	ug/L	50	52.0	104	70-120	
Dibromomethane	ug/L	50	53.7	107	75-125	
Dichlorodifluoromethane	ug/L	50	27.8	56	22-154	CL
Ethanol	ug/L	1250	1410	113	10-151	
Ethylbenzene	ug/L	50	50.1	100	70-113	
Hexachloro-1,3-butadiene	ug/L	50	44.5	89	59-121	
Isopropylbenzene (Cumene)	ug/L	50	46.4	93	67-115	
Methylene Chloride	ug/L	50	50.4	101	61-142	
n-Butylbenzene	ug/L	50	49.2	98	73-107	
n-Propylbenzene	ug/L	50	46.1	92	68-116	
p-Isopropyltoluene	ug/L	50	49.0	98	73-101	
sec-Butylbenzene	ug/L	50	47.0	94	72-103	
Styrene	ug/L	50	49.9	100	72-118	
tert-Butylbenzene	ug/L	50	47.3	95	68-100	
Tetrachloroethene	ug/L	50	48.6	97	60-128	
Toluene	ug/L	50	52.0	104	72-119	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	56-142	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	21.8	44	71-121	CL,IL,L2
Trichloroethene	ug/L	50	51.5	103	69-117	
Vinyl chloride	ug/L	50	40.8	82	43-143	CL
Xylene (Total)	ug/L	150	149	99	71-109	
1,2-Dichloroethane-d4 (S)	%			85	68-153	

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

LABORATORY CONTROL SAMPLE: 412646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			105	79-124	
Toluene-d8 (S)	%			97	69-124	

MATRIX SPIKE SAMPLE: 412648

Parameter	Units	7069385005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	41.2	82	74-113	
1,1,1-Trichloroethane	ug/L	<1.0	50	42.5	85	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	39.7	79	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	40.7	81	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	42.0	84	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	43.1	86	45-146	
1,1-Dichloropropene	ug/L	<1.0	50	45.1	90	59-127	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	45.1	90	67-103	
1,2,3-Trichloropropane	ug/L	<1.0	50	37.6	75	71-123	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	42.3	85	66-103	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	50	40.8	82	68-116	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	43.4	87	83-115	
1,2-Dichloroethane	ug/L	<1.0	50	40.9	82	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	41.8	84	75-117	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	41.1	82	67-116	
1,3-Dichlorobenzene	ug/L	<1.0	50	39.5	79	71-112	
1,3-Dichloropropane	ug/L	<1.0	50	40.0	80	74-112	
1,4-Diethylbenzene	ug/L	<1.0	50	41.6	83	56-130	N3
2,2-Dichloropropane	ug/L	<1.0	50	45.0	90	63-133	
2-Butanone (MEK)	ug/L	<5.0	50	38.6	77	44-162	
2-Chlorotoluene	ug/L	<1.0	50	39.6	79	74-101	
2-Hexanone	ug/L	<5.0	50	40.8	82	32-183	
4-Chlorotoluene	ug/L	<1.0	50	38.7	77	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	43.3	87	69-132	
Acetone	ug/L	<5.0	50	34.0	68	23-188	
Benzene	ug/L	<1.0	50	44.7	89	73-119	
Bromobenzene	ug/L	<1.0	50	40.2	80	72-102	
Bromochloromethane	ug/L	<1.0	50	45.9	92	81-116	
Bromodichloromethane	ug/L	<1.0	50	43.4	87	78-117	
Bromoform	ug/L	<1.0	50	40.8	82	65-122	
Bromomethane	ug/L	<1.0	50	26.7	53	52-147	
Carbon disulfide	ug/L	<1.0	50	43.6	87	41-144	
Carbon tetrachloride	ug/L	<1.0	50	44.4	89	59-120	
Chlorobenzene	ug/L	<1.0	50	39.4	79	75-113	
Chlorodifluoromethane	ug/L	<1.0	50	34.0	68	43-140	N3
Chloroethane	ug/L	<1.0	50	39.0	78	49-151	CL
Chloroform	ug/L	<1.0	50	43.3	87	72-122	
Chloromethane	ug/L	<1.0	50	30.9	62	46-144	CL
cis-1,2-Dichloroethene	ug/L	3.4	50	48.2	90	72-121	

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

MATRIX SPIKE SAMPLE: 412648		7069385005	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,3-Dichloropropene	ug/L	<1.0	50	42.4	85	78-116	
Dibromochloromethane	ug/L	<1.0	50	39.8	80	70-120	
Dibromomethane	ug/L	<1.0	50	41.5	83	75-125	
Dichlorodifluoromethane	ug/L	<1.0	50	19.7	39	22-154	CL
Ethanol	ug/L	<250	1250	972	78	10-151	
Ethylbenzene	ug/L	<1.0	50	43.2	86	70-113	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	39.5	79	59-121	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	41.2	82	67-115	
Methylene Chloride	ug/L	<1.0	50	39.9	80	61-142	
n-Butylbenzene	ug/L	<1.0	50	42.7	85	73-107	
n-Propylbenzene	ug/L	<1.0	50	41.1	82	68-116	
p-Isopropyltoluene	ug/L	<1.0	50	42.8	86	73-101	
sec-Butylbenzene	ug/L	<1.0	50	42.5	85	72-103	
Styrene	ug/L	<1.0	50	42.6	85	72-118	
tert-Butylbenzene	ug/L	<1.0	50	41.7	83	68-100	
Tetrachloroethene	ug/L	<1.0	50	32.2	64	60-128	
Toluene	ug/L	<1.0	50	45.3	91	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	43.0	86	56-142	
trans-1,3-Dichloropropene	ug/L	<1.0	50	43.1	86	79-116	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	16.3	33	71-121	CL,IL,M0
Trichloroethene	ug/L	7.1	50	51.9	90	69-117	
Vinyl chloride	ug/L	<1.0	50	36.3	73	43-143	CL
Xylene (Total)	ug/L	<3.0	150	127	85	71-109	
1,2-Dichloroethane-d4 (S)	%				89	68-153	
4-Bromofluorobenzene (S)	%				102	79-124	
Toluene-d8 (S)	%				95	69-124	

SAMPLE DUPLICATE: 412647

Parameter	Units	7069385004	Dup	RPD	Qualifiers
		Result	Result		
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,1-Dichloropropene	ug/L	<1.0	<1.0		
1,2,3-Trichlorobenzene	ug/L	<1.0	<1.0		
1,2,3-Trichloropropane	ug/L	<1.0	<1.0		
1,2,4,5-tetramethylbenzene	ug/L	<1.0	<1.0		N3
1,2,4-Trimethylbenzene	ug/L	<1.0	<1.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3,5-Trimethylbenzene	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

SAMPLE DUPLICATE: 412647

Parameter	Units	7069385004 Result	Dup Result	RPD	Qualifiers
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,3-Dichloropropane	ug/L	<1.0	<1.0		
1,4-Diethylbenzene	ug/L	<1.0	<1.0		N3
2,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Chlorotoluene	ug/L	<1.0	<1.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Chlorotoluene	ug/L	<1.0	<1.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<1.0	<1.0		
Bromobenzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chlorodifluoromethane	ug/L	<1.0	<1.0		N3
Chloroethane	ug/L	<1.0	<1.0		CL
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		CL
cis-1,2-Dichloroethene	ug/L	4.6	3.8	18	
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dibromomethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		CL
Ethanol	ug/L	<250	<250		
Ethylbenzene	ug/L	<1.0	<1.0		
Hexachloro-1,3-butadiene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
n-Propylbenzene	ug/L	<1.0	<1.0		
p-Isopropyltoluene	ug/L	<1.0	<1.0		
sec-Butylbenzene	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
trans-1,4-Dichloro-2-butene	ug/L	<1.0	<1.0		CL,IL
Trichloroethene	ug/L	8.5	8.8	3	
Vinyl chloride	ug/L	<1.0	<1.0		CL
Xylene (Total)	ug/L	<3.0	<3.0		

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QUALITY CONTROL DATA

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

SAMPLE DUPLICATE: 412647

Parameter	Units	7069385004 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	91	94	3	
4-Bromofluorobenzene (S)	%	107	96	11	
Toluene-d8 (S)	%	96	94	2	

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QUALIFIERS

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FAIRCHILD ANNUAL 10/30

Pace Project No.: 7069486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7069486001	MW-49I-20181030	EPA 8260C/5030C	89666		
7069486002	MW-49D-20181030	EPA 8260C/5030C	89666		
7069486003	MW-50-20181030	EPA 8260C/5030C	89666		
7069486004	S-66134-20181030	EPA 8260C/5030C	89666		
7069486005	TB-03-20181030	EPA 8260C/5030C	89666		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name:

HDR

Project

WO#: 7069486

PM: JDS Due Date: 11/08/18

CLIENT: FAIR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: 0.0

Cooler Temperature (°C): 1.8

Cooler Temperature Corrected (°C): 1.8

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents: 10/30/18 J.D.

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☒ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☒ Yes	☐ No		1.
Chain of Custody Filled Out:	☒ Yes	☐ No		2.
Chain of Custody Relinquished:	☒ Yes	☐ No		3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
-Pace Containers Used:	☒ Yes	☐ No		
Containers Intact:	☒ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes	☐ No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐ Yes	☐ No	☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☐ Yes	☐ No	☒ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☒ No	☐ N/A	15.
Trip Blank Present:	☒ Yes	☐ No	☐ N/A	16.
Trip Blank Custody Seals Present	☒ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

February 23, 2018

James
Wire to Water Electrical Contractors
136 Gazza Blvd
Farmingdale, NY 117351420

RE: Project: MONTHLY-2/14
Pace Project No.: 7042991

Dear James:

Enclosed are the analytical results for sample(s) received by the laboratory on February 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Paul Lanzillotta, Wire to Water Electrical Contractors
Caroline Mendoza, Fairchild Corporation
Stuart Skopicki, Wire to Water Electrical Contractors



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MONTHLY-2/14

Pace Project No.: 7042991

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-2/14

Pace Project No.: 7042991

Sample: INFLUENT #1		Lab ID: 7042991001		Collected: 02/14/18 15:45		Received: 02/14/18 17:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	02/16/18 08:33	02/16/18 17:06	7440-41-7		
Iron	809	ug/L	20.0	1	02/16/18 08:33	02/16/18 17:06	7439-89-6		
Manganese	72.5	ug/L	10.0	1	02/16/18 08:33	02/16/18 17:06	7439-96-5		
Zinc	78.8	ug/L	20.0	1	02/16/18 08:33	02/16/18 17:06	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		02/16/18 14:22	7440-41-7		
Iron, Dissolved	806	ug/L	20.0	1		02/16/18 14:22	7439-89-6		
Manganese, Dissolved	71.4	ug/L	10.0	1		02/16/18 14:22	7439-96-5		
Zinc, Dissolved	70.6	ug/L	20.0	1		02/16/18 14:22	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/20/18 23:23	75-71-8		
Chloromethane	<1.0	ug/L	1.0	1		02/20/18 23:23	74-87-3		
Vinyl chloride	21.1	ug/L	1.0	1		02/20/18 23:23	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		02/20/18 23:23	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		02/20/18 23:23	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		02/20/18 23:23	75-09-2		
1,1-Dichloroethene	8.2	ug/L	1.0	1		02/20/18 23:23	75-35-4		
trans-1,2-Dichloroethene	2.5	ug/L	1.0	1		02/20/18 23:23	156-60-5		
1,1-Dichloroethane	17.4	ug/L	1.0	1		02/20/18 23:23	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		02/20/18 23:23	594-20-7		
cis-1,2-Dichloroethene	242	ug/L	10.0	10		02/21/18 13:02	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		02/20/18 23:23	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		02/20/18 23:23	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/20/18 23:23	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/20/18 23:23	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		02/20/18 23:23	563-58-6		
Benzene	2.0	ug/L	1.0	1		02/20/18 23:23	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/20/18 23:23	107-06-2		
Trichloroethene	104	ug/L	1.0	1		02/20/18 23:23	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/20/18 23:23	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		02/20/18 23:23	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		02/20/18 23:23	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/20/18 23:23	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		02/20/18 23:23	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/20/18 23:23	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/20/18 23:23	79-00-5		
Tetrachloroethene	563	ug/L	10.0	10		02/21/18 13:02	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		02/20/18 23:23	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		02/20/18 23:23	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/20/18 23:23	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/20/18 23:23	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		02/20/18 23:23	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-2/14

Pace Project No.: 7042991

Sample: INFLUENT #1		Lab ID: 7042991001	Collected: 02/14/18 15:45	Received: 02/14/18 17:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		02/20/18 23:23	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		02/20/18 23:23	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/20/18 23:23	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/20/18 23:23	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		02/20/18 23:23	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		02/20/18 23:23	95-49-8	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		02/20/18 23:23	106-43-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	98-06-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		02/20/18 23:23	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		02/20/18 23:23	87-68-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	87-61-6	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/20/18 23:23	78-93-3	L1
2-Hexanone	<5.0	ug/L	5.0	1		02/20/18 23:23	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		02/20/18 23:23	75-15-0	
Acetone	<5.0	ug/L	5.0	1		02/20/18 23:23	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/20/18 23:23	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		02/20/18 23:23	110-57-6	
Ethanol	<250	ug/L	250	1		02/20/18 23:23	64-17-5	CL
Chlorodifluoromethane	<1.0	ug/L	1.0	1		02/20/18 23:23	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:23	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	68-153	1		02/20/18 23:23	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		02/20/18 23:23	460-00-4	
Toluene-d8 (S)	101	%	69-124	1		02/20/18 23:23	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	130	mg/L	10.0	1		02/19/18 14:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-2/14

Pace Project No.: 7042991

Sample: INFLUENT #2		Lab ID: 7042991002		Collected: 02/14/18 16:00		Received: 02/14/18 17:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	02/16/18 08:33	02/16/18 17:07	7440-41-7		
Iron	693	ug/L	20.0	1	02/16/18 08:33	02/16/18 17:07	7439-89-6		
Manganese	68.7	ug/L	10.0	1	02/16/18 08:33	02/16/18 17:07	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	02/16/18 08:33	02/16/18 17:07	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		02/16/18 14:27	7440-41-7		
Iron, Dissolved	302	ug/L	20.0	1		02/16/18 14:27	7439-89-6		
Manganese, Dissolved	70.6	ug/L	10.0	1		02/16/18 14:27	7439-96-5		
Zinc, Dissolved	22.1	ug/L	20.0	1		02/16/18 14:27	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/21/18 11:51	75-71-8		
Chloromethane	<1.0	ug/L	1.0	1		02/21/18 11:51	74-87-3		
Vinyl chloride	<1.0	ug/L	1.0	1		02/21/18 11:51	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		02/21/18 11:51	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		02/21/18 11:51	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		02/21/18 11:51	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		02/21/18 11:51	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/21/18 11:51	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/21/18 11:51	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		02/21/18 11:51	594-20-7		
cis-1,2-Dichloroethene	2.4	ug/L	1.0	1		02/21/18 11:51	156-59-2	D6	
Chloroform	<1.0	ug/L	1.0	1		02/21/18 11:51	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		02/21/18 11:51	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/21/18 11:51	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/21/18 11:51	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		02/21/18 11:51	563-58-6		
Benzene	<1.0	ug/L	1.0	1		02/21/18 11:51	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/21/18 11:51	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		02/21/18 11:51	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/21/18 11:51	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		02/21/18 11:51	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		02/21/18 11:51	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/21/18 11:51	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		02/21/18 11:51	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/21/18 11:51	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/21/18 11:51	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		02/21/18 11:51	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		02/21/18 11:51	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		02/21/18 11:51	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/21/18 11:51	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/21/18 11:51	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		02/21/18 11:51	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-2/14

Pace Project No.: 7042991

Sample: INFLUENT #2		Lab ID: 7042991002	Collected: 02/14/18 16:00	Received: 02/14/18 17:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		02/21/18 11:51	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		02/21/18 11:51	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/21/18 11:51	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/21/18 11:51	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		02/21/18 11:51	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		02/21/18 11:51	95-49-8	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		02/21/18 11:51	106-43-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	98-06-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		02/21/18 11:51	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		02/21/18 11:51	87-68-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	87-61-6	CL,M1
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/21/18 11:51	78-93-3	L1,M0
2-Hexanone	<5.0	ug/L	5.0	1		02/21/18 11:51	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		02/21/18 11:51	75-15-0	
Acetone	<5.0	ug/L	5.0	1		02/21/18 11:51	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/21/18 11:51	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		02/21/18 11:51	110-57-6	
Ethanol	<250	ug/L	250	1		02/21/18 11:51	64-17-5	CL
Chlorodifluoromethane	<1.0	ug/L	1.0	1		02/21/18 11:51	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		02/21/18 11:51	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		02/21/18 11:51	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		02/21/18 11:51	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		02/21/18 11:51	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	132	mg/L	10.0	1		02/19/18 14:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-2/14

Pace Project No.: 7042991

Sample: EFFLUENT #1		Lab ID: 7042991003		Collected: 02/14/18 16:30		Received: 02/14/18 17:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	02/16/18 08:33	02/16/18 17:08	7440-41-7		
Iron	685	ug/L	20.0	1	02/16/18 08:33	02/16/18 17:08	7439-89-6		
Manganese	71.9	ug/L	10.0	1	02/16/18 08:33	02/16/18 17:08	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	02/16/18 08:33	02/16/18 17:08	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		02/16/18 14:28	7440-41-7		
Iron, Dissolved	349	ug/L	20.0	1		02/16/18 14:28	7439-89-6		
Manganese, Dissolved	70.3	ug/L	10.0	1		02/16/18 14:28	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		02/16/18 14:28	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/20/18 23:05	75-71-8		
Chloromethane	<1.0	ug/L	1.0	1		02/20/18 23:05	74-87-3		
Vinyl chloride	<1.0	ug/L	1.0	1		02/20/18 23:05	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		02/20/18 23:05	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		02/20/18 23:05	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		02/20/18 23:05	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		02/20/18 23:05	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/20/18 23:05	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/20/18 23:05	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		02/20/18 23:05	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/20/18 23:05	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		02/20/18 23:05	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		02/20/18 23:05	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/20/18 23:05	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/20/18 23:05	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		02/20/18 23:05	563-58-6		
Benzene	<1.0	ug/L	1.0	1		02/20/18 23:05	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/20/18 23:05	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		02/20/18 23:05	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/20/18 23:05	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		02/20/18 23:05	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		02/20/18 23:05	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/20/18 23:05	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		02/20/18 23:05	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/20/18 23:05	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/20/18 23:05	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		02/20/18 23:05	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		02/20/18 23:05	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		02/20/18 23:05	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/20/18 23:05	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/20/18 23:05	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		02/20/18 23:05	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-2/14

Pace Project No.: 7042991

Sample: EFFLUENT #1		Lab ID: 7042991003	Collected: 02/14/18 16:30	Received: 02/14/18 17:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		02/20/18 23:05	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		02/20/18 23:05	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/20/18 23:05	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/20/18 23:05	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		02/20/18 23:05	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		02/20/18 23:05	95-49-8	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		02/20/18 23:05	106-43-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	98-06-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		02/20/18 23:05	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		02/20/18 23:05	87-68-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	87-61-6	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/20/18 23:05	78-93-3	L1
2-Hexanone	<5.0	ug/L	5.0	1		02/20/18 23:05	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		02/20/18 23:05	75-15-0	
Acetone	<5.0	ug/L	5.0	1		02/20/18 23:05	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/20/18 23:05	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		02/20/18 23:05	110-57-6	
Ethanol	<250	ug/L	250	1		02/20/18 23:05	64-17-5	CL
Chlorodifluoromethane	<1.0	ug/L	1.0	1		02/20/18 23:05	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		02/20/18 23:05	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	68-153	1		02/20/18 23:05	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		02/20/18 23:05	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		02/20/18 23:05	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	131	mg/L	10.0	1		02/19/18 14:04		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

QC Batch:	56699	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	7042991001, 7042991002, 7042991003		

METHOD BLANK: 260665 Matrix: Water

Associated Lab Samples: 7042991001, 7042991002, 7042991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	5.0	02/16/18 14:20	
Iron, Dissolved	ug/L	<20.0	20.0	02/16/18 14:20	
Manganese, Dissolved	ug/L	<10.0	10.0	02/16/18 14:20	
Zinc, Dissolved	ug/L	<20.0	20.0	02/16/18 14:20	

LABORATORY CONTROL SAMPLE: 260666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	50	50.5	101	85-115	
Iron, Dissolved	ug/L	2000	1990	100	85-115	
Manganese, Dissolved	ug/L	250	249	100	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE SAMPLE: 260669

Parameter	Units	7042991001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	50	49.1	98	70-130	
Iron, Dissolved	ug/L	806	2000	2750	97	70-130	
Manganese, Dissolved	ug/L	71.4	250	318	99	70-130	
Zinc, Dissolved	ug/L	70.6	1000	1070	100	70-130	

SAMPLE DUPLICATE: 260668

Parameter	Units	7042991001 Result	Dup Result	RPD	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	<5.0		
Iron, Dissolved	ug/L	806	797	1	
Manganese, Dissolved	ug/L	71.4	72.0	1	
Zinc, Dissolved	ug/L	70.6	68.9	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

QC Batch: 56735 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7042991001, 7042991002, 7042991003

METHOD BLANK: 260810 Matrix: Water

Associated Lab Samples: 7042991001, 7042991002, 7042991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium	ug/L	<5.0	5.0	02/16/18 16:47	
Iron	ug/L	<20.0	20.0	02/16/18 16:47	
Manganese	ug/L	<10.0	10.0	02/16/18 16:47	
Zinc	ug/L	<20.0	20.0	02/16/18 16:47	

LABORATORY CONTROL SAMPLE: 260811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	50	48.3	97	85-115	
Iron	ug/L	2000	1940	97	85-115	
Manganese	ug/L	250	243	97	85-115	
Zinc	ug/L	1000	981	98	85-115	

MATRIX SPIKE SAMPLE: 260813

Parameter	Units	7043006001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	48.8	98	70-130	
Iron	ug/L	762	2000	2820	103	70-130	
Manganese	ug/L	443	250	670	91	70-130	
Zinc	ug/L	<20.0	1000	990	99	70-130	

MATRIX SPIKE SAMPLE: 260815

Parameter	Units	7043006003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	49.9	100	70-130	
Iron	ug/L	1670	2000	3910	112	70-130	
Manganese	ug/L	950	250	1170	88	70-130	
Zinc	ug/L	26.7	1000	1030	100	70-130	

SAMPLE DUPLICATE: 260812

Parameter	Units	7043006001 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	762	807	6	
Manganese	ug/L	443	445	0	

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

SAMPLE DUPLICATE: 260812

Parameter	Units	7043006001 Result	Dup Result	RPD	Qualifiers
Zinc	ug/L	<20.0	<20.0		

SAMPLE DUPLICATE: 260814

Parameter	Units	7043006003 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	1670	1730	4	
Manganese	ug/L	950	935	2	
Zinc	ug/L	26.7	23.2	14	

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

QC Batch:	57050	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
Associated Lab Samples:	7042991001, 7042991003		

METHOD BLANK: 262103 Matrix: Water

Associated Lab Samples: 7042991001, 7042991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	02/20/18 16:03	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	02/20/18 16:03	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	02/20/18 16:03	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	02/20/18 16:03	
1,1-Dichloroethane	ug/L	<1.0	1.0	02/20/18 16:03	
1,1-Dichloroethene	ug/L	<1.0	1.0	02/20/18 16:03	
1,1-Dichloropropene	ug/L	<1.0	1.0	02/20/18 16:03	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	02/20/18 16:03	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	02/20/18 16:03	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	02/20/18 16:03	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	02/20/18 16:03	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	02/20/18 16:03	
1,2-Dichloroethane	ug/L	<1.0	1.0	02/20/18 16:03	
1,2-Dichloropropane	ug/L	<1.0	1.0	02/20/18 16:03	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	02/20/18 16:03	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	02/20/18 16:03	
1,3-Dichloropropane	ug/L	<1.0	1.0	02/20/18 16:03	
1,4-Diethylbenzene	ug/L	<1.0	1.0	02/20/18 16:03	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	02/20/18 16:03	
2-Butanone (MEK)	ug/L	<5.0	5.0	02/20/18 16:03	
2-Chlorotoluene	ug/L	<1.0	1.0	02/20/18 16:03	
2-Hexanone	ug/L	<5.0	5.0	02/20/18 16:03	
4-Chlorotoluene	ug/L	<1.0	1.0	02/20/18 16:03	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	02/20/18 16:03	
Acetone	ug/L	<5.0	5.0	02/20/18 16:03	
Benzene	ug/L	<1.0	1.0	02/20/18 16:03	
Bromobenzene	ug/L	<1.0	1.0	02/20/18 16:03	
Bromochloromethane	ug/L	<1.0	1.0	02/20/18 16:03	
Bromodichloromethane	ug/L	<1.0	1.0	02/20/18 16:03	
Bromoform	ug/L	<1.0	1.0	02/20/18 16:03	
Bromomethane	ug/L	<1.0	1.0	02/20/18 16:03	
Carbon disulfide	ug/L	<1.0	1.0	02/20/18 16:03	
Carbon tetrachloride	ug/L	<1.0	1.0	02/20/18 16:03	
Chlorobenzene	ug/L	<1.0	1.0	02/20/18 16:03	
Chlorodifluoromethane	ug/L	<1.0	1.0	02/20/18 16:03	N3
Chloroethane	ug/L	<1.0	1.0	02/20/18 16:03	
Chloroform	ug/L	<1.0	1.0	02/20/18 16:03	
Chloromethane	ug/L	<1.0	1.0	02/20/18 16:03	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	02/20/18 16:03	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	02/20/18 16:03	
Dibromochloromethane	ug/L	<1.0	1.0	02/20/18 16:03	

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

METHOD BLANK: 262103

Matrix: Water

Associated Lab Samples: 7042991001, 7042991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	02/20/18 16:03	CL
Dichlorodifluoromethane	ug/L	<1.0	1.0	02/20/18 16:03	
Ethanol	ug/L	<250	250	02/20/18 16:03	
Ethylbenzene	ug/L	<1.0	1.0	02/20/18 16:03	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	02/20/18 16:03	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	02/20/18 16:03	
Methylene Chloride	ug/L	<1.0	1.0	02/20/18 16:03	
n-Butylbenzene	ug/L	<1.0	1.0	02/20/18 16:03	
n-Propylbenzene	ug/L	<1.0	1.0	02/20/18 16:03	
p-Isopropyltoluene	ug/L	<1.0	1.0	02/20/18 16:03	
sec-Butylbenzene	ug/L	<1.0	1.0	02/20/18 16:03	
Styrene	ug/L	<1.0	1.0	02/20/18 16:03	
tert-Butylbenzene	ug/L	<1.0	1.0	02/20/18 16:03	
Tetrachloroethene	ug/L	<1.0	1.0	02/20/18 16:03	
Toluene	ug/L	<1.0	1.0	02/20/18 16:03	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	02/20/18 16:03	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	02/20/18 16:03	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	02/20/18 16:03	
Trichloroethene	ug/L	<1.0	1.0	02/20/18 16:03	
Vinyl chloride	ug/L	<1.0	1.0	02/20/18 16:03	
Xylene (Total)	ug/L	<3.0	3.0	02/20/18 16:03	
1,2-Dichloroethane-d4 (S)	%	97	68-153	02/20/18 16:03	
4-Bromofluorobenzene (S)	%	99	79-124	02/20/18 16:03	
Toluene-d8 (S)	%	98	69-124	02/20/18 16:03	

LABORATORY CONTROL SAMPLE: 262104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.8	94	74-113	
1,1,1-Trichloroethane	ug/L	50	45.2	90	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	47.6	95	74-121	
1,1,2-Trichloroethane	ug/L	50	45.8	92	80-117	
1,1-Dichloroethane	ug/L	50	48.8	98	83-151	
1,1-Dichloroethene	ug/L	50	47.3	95	45-146	
1,1-Dichloropropene	ug/L	50	48.0	96	59-127	
1,2,3-Trichlorobenzene	ug/L	50	41.9	84	67-103	
1,2,3-Trichloropropane	ug/L	50	44.1	88	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	45.3	91	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	46.6	93	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	46.6	93	83-115	
1,2-Dichloroethane	ug/L	50	43.9	88	74-129	
1,2-Dichloropropane	ug/L	50	48.4	97	75-117	
1,3,5-Trimethylbenzene	ug/L	50	46.5	93	67-116	
1,3-Dichlorobenzene	ug/L	50	47.6	95	71-112	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

LABORATORY CONTROL SAMPLE: 262104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	46.4	93	74-112	
1,4-Diethylbenzene	ug/L	50	47.5	95	56-130	N3
2,2-Dichloropropane	ug/L	50	46.2	92	63-133	
2-Butanone (MEK)	ug/L	50	88.7	177	44-162	CH,IH,L1
2-Chlorotoluene	ug/L	50	47.6	95	74-101	
2-Hexanone	ug/L	50	48.3	97	32-183	
4-Chlorotoluene	ug/L	50	48.2	96	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.6	97	69-132	
Acetone	ug/L	50	42.4	85	23-188	CH
Benzene	ug/L	50	47.7	95	73-119	
Bromobenzene	ug/L	50	45.7	91	72-102	
Bromochloromethane	ug/L	50	46.4	93	81-116	
Bromodichloromethane	ug/L	50	46.7	93	78-117	
Bromoform	ug/L	50	45.3	91	65-122	
Bromomethane	ug/L	50	47.6	95	52-147	
Carbon disulfide	ug/L	50	44.4	89	41-144	
Carbon tetrachloride	ug/L	50	44.2	88	59-120	
Chlorobenzene	ug/L	50	45.5	91	75-113	
Chlorodifluoromethane	ug/L	50	45.0	90	43-140	N3
Chloroethane	ug/L	50	45.7	91	49-151	
Chloroform	ug/L	50	45.9	92	72-122	
Chloromethane	ug/L	50	48.2	96	46-144	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	72-121	
cis-1,3-Dichloropropene	ug/L	50	52.2	104	78-116	
Dibromochloromethane	ug/L	50	44.4	89	70-120	
Dibromomethane	ug/L	50	46.1	92	75-125	
Dichlorodifluoromethane	ug/L	50	42.2	84	22-154	
Ethanol	ug/L	1250	960	77	10-151	CL
Ethylbenzene	ug/L	50	45.2	90	70-113	
Hexachloro-1,3-butadiene	ug/L	50	40.9	82	59-121	
Isopropylbenzene (Cumene)	ug/L	50	46.6	93	67-115	
Methylene Chloride	ug/L	50	45.3	91	61-142	
n-Butylbenzene	ug/L	50	48.7	97	73-107	
n-Propylbenzene	ug/L	50	47.3	95	68-116	
p-Isopropyltoluene	ug/L	50	46.1	92	73-101	
sec-Butylbenzene	ug/L	50	48.0	96	72-103	
Styrene	ug/L	50	46.8	94	72-118	
tert-Butylbenzene	ug/L	50	46.9	94	68-100	
Tetrachloroethene	ug/L	50	45.9	92	60-128	
Toluene	ug/L	50	45.3	91	72-119	
trans-1,2-Dichloroethene	ug/L	50	48.4	97	56-142	
trans-1,3-Dichloropropene	ug/L	50	51.8	104	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	48.5	97	71-121	
Trichloroethene	ug/L	50	43.2	86	69-117	
Vinyl chloride	ug/L	50	48.2	96	43-143	
Xylene (Total)	ug/L	150	137	91	71-109	
1,2-Dichloroethane-d4 (S)	%			96	68-153	

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

LABORATORY CONTROL SAMPLE: 262104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			100	79-124	
Toluene-d8 (S)	%			99	69-124	

MATRIX SPIKE SAMPLE: 262620

Parameter	Units	7043109012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	44.2	88	74-113	
1,1,1-Trichloroethane	ug/L	<1.0	50	45.8	92	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	46.0	92	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	46.1	92	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	51.7	103	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	50.8	102	45-146	
1,1-Dichloropropene	ug/L	<1.0	50	50.2	100	59-127	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	39.9	80	67-103	
1,2,3-Trichloropropane	ug/L	<1.0	50	43.7	87	71-123	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	44.8	90	66-103	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	50	46.7	93	68-116	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	45.1	90	83-115	
1,2-Dichloroethane	ug/L	<1.0	50	43.3	87	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	48.9	98	75-117	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	46.6	93	67-116	
1,3-Dichlorobenzene	ug/L	<1.0	50	46.8	94	71-112	
1,3-Dichloropropane	ug/L	<1.0	50	44.4	89	74-112	
1,4-Diethylbenzene	ug/L	<1.0	50	48.0	96	56-130	N3
2,2-Dichloropropane	ug/L	<1.0	50	45.2	90	63-133	
2-Butanone (MEK)	ug/L	<5.0	50	88.5	177	44-162	CH,IH,M0
2-Chlorotoluene	ug/L	<1.0	50	48.3	97	74-101	
2-Hexanone	ug/L	<5.0	50	45.0	90	32-183	
4-Chlorotoluene	ug/L	<1.0	50	48.6	97	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	46.8	94	69-132	
Acetone	ug/L	<5.0	50	42.6	85	23-188	CH
Benzene	ug/L	<1.0	50	48.5	97	73-119	
Bromobenzene	ug/L	<1.0	50	45.2	90	72-102	
Bromochloromethane	ug/L	<1.0	50	45.4	91	81-116	
Bromodichloromethane	ug/L	<1.0	50	46.0	92	78-117	
Bromoform	ug/L	<1.0	50	40.8	82	65-122	
Bromomethane	ug/L	<1.0	50	47.8	96	52-147	
Carbon disulfide	ug/L	<1.0	50	46.9	94	41-144	
Carbon tetrachloride	ug/L	<1.0	50	45.2	90	59-120	
Chlorobenzene	ug/L	<1.0	50	44.7	89	75-113	
Chlorodifluoromethane	ug/L	<1.0	50	45.2	90	43-140	N3
Chloroethane	ug/L	<1.0	50	49.2	98	49-151	
Chloroform	ug/L	<1.0	50	47.5	95	72-122	
Chloromethane	ug/L	<1.0	50	47.4	95	46-144	
cis-1,2-Dichloroethene	ug/L	<1.0	50	49.5	99	72-121	

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

MATRIX SPIKE SAMPLE: 262620		7043109012	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,3-Dichloropropene	ug/L	<1.0	50	50.6	101	78-116	
Dibromochloromethane	ug/L	<1.0	50	41.5	83	70-120	
Dibromomethane	ug/L	<1.0	50	44.3	89	75-125	
Dichlorodifluoromethane	ug/L	<1.0	50	34.5	69	22-154	
Ethanol	ug/L	<250	1250	1010	81	10-151	CL
Ethylbenzene	ug/L	<1.0	50	43.8	88	70-113	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	42.5	85	59-121	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	47.7	95	67-115	
Methylene Chloride	ug/L	<1.0	50	45.3	91	61-142	
n-Butylbenzene	ug/L	<1.0	50	50.1	100	73-107	
n-Propylbenzene	ug/L	<1.0	50	48.8	98	68-116	
p-Isopropyltoluene	ug/L	<1.0	50	46.7	93	73-101	
sec-Butylbenzene	ug/L	<1.0	50	49.1	98	72-103	
Styrene	ug/L	<1.0	50	45.1	90	72-118	
tert-Butylbenzene	ug/L	<1.0	50	47.4	95	68-100	
Tetrachloroethene	ug/L	<1.0	50	44.0	88	60-128	
Toluene	ug/L	<1.0	50	46.5	93	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50.3	101	56-142	
trans-1,3-Dichloropropene	ug/L	<1.0	50	49.7	99	79-116	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	46.8	94	71-121	
Trichloroethene	ug/L	<1.0	50	43.2	86	69-117	
Vinyl chloride	ug/L	<1.0	50	48.7	97	43-143	
Xylene (Total)	ug/L	<3.0	150	133	88	71-109	
1,2-Dichloroethane-d4 (S)	%				98	68-153	
4-Bromofluorobenzene (S)	%				99	79-124	
Toluene-d8 (S)	%				97	69-124	

SAMPLE DUPLICATE: 262621

Parameter	Units	7043109017	Dup	RPD	Qualifiers
		Result	Result		
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,1-Dichloropropene	ug/L	<1.0	<1.0		
1,2,3-Trichlorobenzene	ug/L	<1.0	<1.0		
1,2,3-Trichloropropane	ug/L	<1.0	<1.0		
1,2,4,5-tetramethylbenzene	ug/L	<1.0	<1.0		N3
1,2,4-Trimethylbenzene	ug/L	<1.0	<1.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3,5-Trimethylbenzene	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

SAMPLE DUPLICATE: 262621

Parameter	Units	7043109017 Result	Dup Result	RPD	Qualifiers
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,3-Dichloropropane	ug/L	<1.0	<1.0		
1,4-Diethylbenzene	ug/L	<1.0	<1.0		N3
2,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Chlorotoluene	ug/L	<1.0	<1.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Chlorotoluene	ug/L	<1.0	<1.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<1.0	<1.0		
Bromobenzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chlorodifluoromethane	ug/L	<1.0	<1.0		N3
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dibromomethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Ethanol	ug/L	<250	<250		CL
Ethylbenzene	ug/L	<1.0	<1.0		
Hexachloro-1,3-butadiene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
n-Propylbenzene	ug/L	<1.0	<1.0		
p-Isopropyltoluene	ug/L	<1.0	<1.0		
sec-Butylbenzene	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
trans-1,4-Dichloro-2-butene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

SAMPLE DUPLICATE: 262621

Parameter	Units	7043109017 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	101	99	2	
4-Bromofluorobenzene (S)	%	97	97	0	
Toluene-d8 (S)	%	96	97	1	

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

QC Batch: 57353

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Associated Lab Samples: 7042991002

METHOD BLANK: 263443

Matrix: Water

Associated Lab Samples: 7042991002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	02/21/18 09:33	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	02/21/18 09:33	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	02/21/18 09:33	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	02/21/18 09:33	
1,1-Dichloroethane	ug/L	<1.0	1.0	02/21/18 09:33	
1,1-Dichloroethene	ug/L	<1.0	1.0	02/21/18 09:33	
1,1-Dichloropropene	ug/L	<1.0	1.0	02/21/18 09:33	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	02/21/18 09:33	CL
1,2,3-Trichloropropane	ug/L	<1.0	1.0	02/21/18 09:33	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	02/21/18 09:33	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	02/21/18 09:33	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	02/21/18 09:33	
1,2-Dichloroethane	ug/L	<1.0	1.0	02/21/18 09:33	
1,2-Dichloropropane	ug/L	<1.0	1.0	02/21/18 09:33	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	02/21/18 09:33	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	02/21/18 09:33	
1,3-Dichloropropane	ug/L	<1.0	1.0	02/21/18 09:33	
1,4-Diethylbenzene	ug/L	<1.0	1.0	02/21/18 09:33	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	02/21/18 09:33	
2-Butanone (MEK)	ug/L	<5.0	5.0	02/21/18 09:33	
2-Chlorotoluene	ug/L	<1.0	1.0	02/21/18 09:33	
2-Hexanone	ug/L	<5.0	5.0	02/21/18 09:33	
4-Chlorotoluene	ug/L	<1.0	1.0	02/21/18 09:33	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	02/21/18 09:33	
Acetone	ug/L	<5.0	5.0	02/21/18 09:33	
Benzene	ug/L	<1.0	1.0	02/21/18 09:33	
Bromobenzene	ug/L	<1.0	1.0	02/21/18 09:33	
Bromochloromethane	ug/L	<1.0	1.0	02/21/18 09:33	
Bromodichloromethane	ug/L	<1.0	1.0	02/21/18 09:33	
Bromoform	ug/L	<1.0	1.0	02/21/18 09:33	
Bromomethane	ug/L	<1.0	1.0	02/21/18 09:33	
Carbon disulfide	ug/L	<1.0	1.0	02/21/18 09:33	
Carbon tetrachloride	ug/L	<1.0	1.0	02/21/18 09:33	
Chlorobenzene	ug/L	<1.0	1.0	02/21/18 09:33	
Chlorodifluoromethane	ug/L	<1.0	1.0	02/21/18 09:33	N3
Chloroethane	ug/L	<1.0	1.0	02/21/18 09:33	
Chloroform	ug/L	<1.0	1.0	02/21/18 09:33	
Chloromethane	ug/L	<1.0	1.0	02/21/18 09:33	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	02/21/18 09:33	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	02/21/18 09:33	
Dibromochloromethane	ug/L	<1.0	1.0	02/21/18 09:33	

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

METHOD BLANK: 263443

Matrix: Water

Associated Lab Samples: 7042991002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	02/21/18 09:33	CL
Dichlorodifluoromethane	ug/L	<1.0	1.0	02/21/18 09:33	
Ethanol	ug/L	<250	250	02/21/18 09:33	
Ethylbenzene	ug/L	<1.0	1.0	02/21/18 09:33	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	02/21/18 09:33	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	02/21/18 09:33	
Methylene Chloride	ug/L	<1.0	1.0	02/21/18 09:33	
n-Butylbenzene	ug/L	<1.0	1.0	02/21/18 09:33	
n-Propylbenzene	ug/L	<1.0	1.0	02/21/18 09:33	
p-Isopropyltoluene	ug/L	<1.0	1.0	02/21/18 09:33	
sec-Butylbenzene	ug/L	<1.0	1.0	02/21/18 09:33	
Styrene	ug/L	<1.0	1.0	02/21/18 09:33	
tert-Butylbenzene	ug/L	<1.0	1.0	02/21/18 09:33	
Tetrachloroethene	ug/L	<1.0	1.0	02/21/18 09:33	
Toluene	ug/L	<1.0	1.0	02/21/18 09:33	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	02/21/18 09:33	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	02/21/18 09:33	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	02/21/18 09:33	
Trichloroethene	ug/L	<1.0	1.0	02/21/18 09:33	
Vinyl chloride	ug/L	<1.0	1.0	02/21/18 09:33	
Xylene (Total)	ug/L	<3.0	3.0	02/21/18 09:33	
1,2-Dichloroethane-d4 (S)	%	100	68-153	02/21/18 09:33	
4-Bromofluorobenzene (S)	%	96	79-124	02/21/18 09:33	
Toluene-d8 (S)	%	96	69-124	02/21/18 09:33	

LABORATORY CONTROL SAMPLE: 263444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.6	91	74-113	
1,1,1-Trichloroethane	ug/L	50	46.0	92	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	46.5	93	74-121	
1,1,2-Trichloroethane	ug/L	50	45.9	92	80-117	
1,1-Dichloroethane	ug/L	50	52.1	104	83-151	
1,1-Dichloroethene	ug/L	50	50.8	102	45-146	
1,1-Dichloropropene	ug/L	50	49.7	99	59-127	
1,2,3-Trichlorobenzene	ug/L	50	41.7	83	67-103	CL
1,2,3-Trichloropropane	ug/L	50	43.5	87	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	45.7	91	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	46.7	93	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	46.4	93	83-115	
1,2-Dichloroethane	ug/L	50	45.0	90	74-129	
1,2-Dichloropropane	ug/L	50	49.6	99	75-117	
1,3,5-Trimethylbenzene	ug/L	50	46.7	93	67-116	
1,3-Dichlorobenzene	ug/L	50	47.1	94	71-112	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

LABORATORY CONTROL SAMPLE: 263444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	44.8	90	74-112	
1,4-Diethylbenzene	ug/L	50	47.4	95	56-130	N3
2,2-Dichloropropane	ug/L	50	47.1	94	63-133	
2-Butanone (MEK)	ug/L	50	88.2	176	44-162	CH,IH,L1
2-Chlorotoluene	ug/L	50	48.2	96	74-101	
2-Hexanone	ug/L	50	46.6	93	32-183	
4-Chlorotoluene	ug/L	50	48.7	97	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.1	96	69-132	
Acetone	ug/L	50	43.5	87	23-188	
Benzene	ug/L	50	49.0	98	73-119	
Bromobenzene	ug/L	50	44.4	89	72-102	
Bromochloromethane	ug/L	50	47.0	94	81-116	
Bromodichloromethane	ug/L	50	47.0	94	78-117	
Bromoform	ug/L	50	43.2	86	65-122	
Bromomethane	ug/L	50	49.2	98	52-147	
Carbon disulfide	ug/L	50	47.0	94	41-144	
Carbon tetrachloride	ug/L	50	45.7	91	59-120	
Chlorobenzene	ug/L	50	44.3	89	75-113	
Chlorodifluoromethane	ug/L	50	48.5	97	43-140	N3
Chloroethane	ug/L	50	50.0	100	49-151	
Chloroform	ug/L	50	48.4	97	72-122	
Chloromethane	ug/L	50	52.8	106	46-144	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	72-121	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	78-116	
Dibromochloromethane	ug/L	50	42.7	85	70-120	
Dibromomethane	ug/L	50	46.0	92	75-125	
Dichlorodifluoromethane	ug/L	50	44.6	89	22-154	
Ethanol	ug/L	1250	997	80	10-151	CL
Ethylbenzene	ug/L	50	43.9	88	70-113	
Hexachloro-1,3-butadiene	ug/L	50	42.1	84	59-121	
Isopropylbenzene (Cumene)	ug/L	50	47.0	94	67-115	
Methylene Chloride	ug/L	50	46.4	93	61-142	
n-Butylbenzene	ug/L	50	49.6	99	73-107	
n-Propylbenzene	ug/L	50	48.3	97	68-116	
p-Isopropyltoluene	ug/L	50	46.1	92	73-101	
sec-Butylbenzene	ug/L	50	48.2	96	72-103	
Styrene	ug/L	50	45.5	91	72-118	
tert-Butylbenzene	ug/L	50	47.2	94	68-100	
Tetrachloroethene	ug/L	50	44.0	88	60-128	
Toluene	ug/L	50	46.3	93	72-119	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	56-142	
trans-1,3-Dichloropropene	ug/L	50	51.9	104	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	49.2	98	71-121	
Trichloroethene	ug/L	50	43.7	87	69-117	
Vinyl chloride	ug/L	50	51.7	103	43-143	
Xylene (Total)	ug/L	150	134	89	71-109	
1,2-Dichloroethane-d4 (S)	%			102	68-153	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

LABORATORY CONTROL SAMPLE: 263444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			99	79-124	
Toluene-d8 (S)	%			97	69-124	

MATRIX SPIKE SAMPLE: 263445

Parameter	Units	7042991002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	45.5	91	74-113	
1,1,1-Trichloroethane	ug/L	<1.0	50	46.3	93	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	54.6	109	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	50.0	100	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	55.8	112	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	51.0	102	45-146	
1,1-Dichloropropene	ug/L	<1.0	50	50.6	101	59-127	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	31.4	63	67-103	CL,M1
1,2,3-Trichloropropane	ug/L	<1.0	50	50.4	101	71-123	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	36.5	73	66-103	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	50	43.5	87	68-116	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50.1	100	83-115	
1,2-Dichloroethane	ug/L	<1.0	50	50.5	101	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	53.7	107	75-117	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	43.0	86	67-116	
1,3-Dichlorobenzene	ug/L	<1.0	50	43.6	87	71-112	
1,3-Dichloropropane	ug/L	<1.0	50	49.1	98	74-112	
1,4-Diethylbenzene	ug/L	<1.0	50	39.3	79	56-130	N3
2,2-Dichloropropane	ug/L	<1.0	50	51.2	102	63-133	
2-Butanone (MEK)	ug/L	<5.0	50	120	239	44-162	CH,IH,M0
2-Chlorotoluene	ug/L	<1.0	50	46.8	94	74-101	
2-Hexanone	ug/L	<5.0	50	59.2	118	32-183	
4-Chlorotoluene	ug/L	<1.0	50	47.9	96	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	59.1	118	69-132	
Acetone	ug/L	<5.0	50	54.4	109	23-188	
Benzene	ug/L	<1.0	50	51.0	102	73-119	
Bromobenzene	ug/L	<1.0	50	46.0	92	72-102	
Bromochloromethane	ug/L	<1.0	50	50.5	101	81-116	
Bromodichloromethane	ug/L	<1.0	50	49.4	99	78-117	
Bromoform	ug/L	<1.0	50	44.2	88	65-122	
Bromomethane	ug/L	<1.0	50	52.2	104	52-147	
Carbon disulfide	ug/L	<1.0	50	47.1	94	41-144	
Carbon tetrachloride	ug/L	<1.0	50	44.9	90	59-120	
Chlorobenzene	ug/L	<1.0	50	44.4	89	75-113	
Chlorodifluoromethane	ug/L	<1.0	50	50.4	101	43-140	N3
Chloroethane	ug/L	<1.0	50	52.6	105	49-151	
Chloroform	ug/L	<1.0	50	51.8	104	72-122	
Chloromethane	ug/L	<1.0	50	55.8	112	46-144	
cis-1,2-Dichloroethene	ug/L	2.4	50	54.7	105	72-121	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

MATRIX SPIKE SAMPLE: 263445		7042991002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,3-Dichloropropene	ug/L	<1.0	50	56.6	113	78-116	
Dibromochloromethane	ug/L	<1.0	50	45.0	90	70-120	
Dibromomethane	ug/L	<1.0	50	49.8	100	75-125	
Dichlorodifluoromethane	ug/L	<1.0	50	43.5	87	22-154	
Ethanol	ug/L	<250	1250	1360	109	10-151	CL
Ethylbenzene	ug/L	<1.0	50	43.2	86	70-113	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	33.4	67	59-121	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	45.2	90	67-115	
Methylene Chloride	ug/L	<1.0	50	49.5	99	61-142	
n-Butylbenzene	ug/L	<1.0	50	41.0	82	73-107	
n-Propylbenzene	ug/L	<1.0	50	45.5	91	68-116	
p-Isopropyltoluene	ug/L	<1.0	50	38.9	78	73-101	
sec-Butylbenzene	ug/L	<1.0	50	41.4	83	72-103	
Styrene	ug/L	<1.0	50	45.4	91	72-118	
tert-Butylbenzene	ug/L	<1.0	50	41.6	83	68-100	
Tetrachloroethene	ug/L	<1.0	50	40.8	82	60-128	
Toluene	ug/L	<1.0	50	47.3	95	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50.8	102	56-142	
trans-1,3-Dichloropropene	ug/L	<1.0	50	57.0	114	79-116	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	58.7	117	71-121	
Trichloroethene	ug/L	<1.0	50	44.0	88	69-117	
Vinyl chloride	ug/L	<1.0	50	53.2	106	43-143	
Xylene (Total)	ug/L	<3.0	150	131	87	71-109	
1,2-Dichloroethane-d4 (S)	%				97	68-153	
4-Bromofluorobenzene (S)	%				97	79-124	
Toluene-d8 (S)	%				97	69-124	

SAMPLE DUPLICATE: 263446

Parameter	Units	7042991002	Dup	RPD	Qualifiers
		Result	Result		
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,1-Dichloropropene	ug/L	<1.0	<1.0		
1,2,3-Trichlorobenzene	ug/L	<1.0	<1.0		CL
1,2,3-Trichloropropane	ug/L	<1.0	<1.0		
1,2,4,5-tetramethylbenzene	ug/L	<1.0	<1.0		N3
1,2,4-Trimethylbenzene	ug/L	<1.0	<1.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3,5-Trimethylbenzene	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

SAMPLE DUPLICATE: 263446

Parameter	Units	7042991002 Result	Dup Result	RPD	Qualifiers
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,3-Dichloropropane	ug/L	<1.0	<1.0		
1,4-Diethylbenzene	ug/L	<1.0	<1.0		N3
2,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Chlorotoluene	ug/L	<1.0	<1.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Chlorotoluene	ug/L	<1.0	<1.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<1.0	<1.0		
Bromobenzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chlorodifluoromethane	ug/L	<1.0	<1.0		N3
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	ug/L	2.4	1.8	28	D6
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dibromomethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Ethanol	ug/L	<250	<250		CL
Ethylbenzene	ug/L	<1.0	<1.0		
Hexachloro-1,3-butadiene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
n-Propylbenzene	ug/L	<1.0	<1.0		
p-Isopropyltoluene	ug/L	<1.0	<1.0		
sec-Butylbenzene	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
trans-1,4-Dichloro-2-butene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

SAMPLE DUPLICATE: 263446

Parameter	Units	7042991002 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	99	100	1	
4-Bromofluorobenzene (S)	%	99	97	2	
Toluene-d8 (S)	%	98	98	1	

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QUALITY CONTROL DATA

Project: MONTHLY-2/14

Pace Project No.: 7042991

QC Batch:	56872	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	7042991001, 7042991002, 7042991003		

METHOD BLANK: 261408 Matrix: Water

Associated Lab Samples: 7042991001, 7042991002, 7042991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	02/19/18 13:53	

LABORATORY CONTROL SAMPLE: 261409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	512	102	85-115	

MATRIX SPIKE SAMPLE: 261411

Parameter	Units	7042974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	63.0	300	478	138	75-125	M1

MATRIX SPIKE SAMPLE: 261413

Parameter	Units	7043109005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	353	300	668	105	75-125	

SAMPLE DUPLICATE: 261410

Parameter	Units	7042974001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	63.0	72.0	13	

SAMPLE DUPLICATE: 261412

Parameter	Units	7043109005 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	353	367	4	

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QUALIFIERS

Project: MONTHLY-2/14

Pace Project No.: 7042991

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MONTHLY-2/14

Pace Project No.: 7042991

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7042991001	INFLUENT #1	EPA 200.7	56735	EPA 200.7	56743
7042991002	INFLUENT #2	EPA 200.7	56735	EPA 200.7	56743
7042991003	EFFLUENT #1	EPA 200.7	56735	EPA 200.7	56743
7042991001	INFLUENT #1	EPA 200.7	56699		
7042991002	INFLUENT #2	EPA 200.7	56699		
7042991003	EFFLUENT #1	EPA 200.7	56699		
7042991001	INFLUENT #1	EPA 8260C/5030C	57050		
7042991002	INFLUENT #2	EPA 8260C/5030C	57353		
7042991003	EFFLUENT #1	EPA 8260C/5030C	57050		
7042991001	INFLUENT #1	SM22 2540C	56872		
7042991002	INFLUENT #2	SM22 2540C	56872		
7042991003	EFFLUENT #1	SM22 2540C	56872		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request

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

WO#: 7042991



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	FAIRCHILD CORP.	Report To:	PAUL LANZILLOTTA	Attention:	
Address:	136 GAZZA BLVD.	Copy To:		Company Name:	
Phone:	631 777-7310	Purchase Order No.:		Address:	
Fax:		Project Name:	MONTHLY	Pace Quote Reference:	
Requested Due Date/TAT:		Project Number:		Pace Project Manager:	
Matrix Codes		Matrix Codes		REGULATORY AGENCY	
Drinking Water		DW		☐ NPDES	
Waste Water		WW		☐ GROUND WATER	
Product		P		☐ DRINKING WATER	
Soil/Solid		SL		☐ RCRA	
Oil		OL		☐ UST	
Wipe		WP		☐ OT-HER	
Air		AR			
Tissue		TS			
Other		OT			

Section D Required Client Information	Matrix Codes	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB						
ITEM #			DATE	TIME	DATE	TIME				
1	INFLEWENT #1	WT G	2/14/18	15:45	2/14/18	17:15				601
2	INFLEWENT #2	WT G	2/14/18	16:00	2/14/18	17:15				602
3	EFFLEWENT #1	WT G	2/14/18	16:30	2/14/18	17:15				603
4										
5										
6										
7										
8										
9										
10										
11										
12										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
	Paul Lanzilotta	2/14/18	17:15	Paul Lanzilotta	2/14/18	17:15	Ice (Y/N)	Sealed Cooler (Y/N)
							Received on	Custody
							Temp in °C	Samples Intact (Y/N)
REF: CONTAINER ORDER ORIGINAL # 330037								
DATE Signed (MM/DD/YY): 2/14/18								
SIGNATURE of SAMPLER: Paul Lanzilotta								
PRINT Name of SAMPLER: PAUL LANZILLOTTA								
SAMPLER NAME AND SIGNATURE								



Sample Condition Upon Receipt

WO#: 7042991

Client Name:

FAIR

PM: JDS Due Date: 02/26/18

CLIENT: FAIR

Courier: ☐ Fed Ex ☐ UPS ☒ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ NoSeals intact: ☐ Yes ☐ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Type of Ice: Wet Blue None

Thermometer Used: 1H092

Correction Factor: 10.0

☒ Samples on Ice, cooling process has begun

Cooler Temperature (°C): 13.3

Cooler Temperature Corrected (°C): 13.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil ☐ N/A, water sample

Date and Initials of person examining contents: JK 2/14/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NODid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	☒ Yes	☐ No	1.
Chain of Custody Filled Out:	☒ Yes	☐ No	2.
Chain of Custody Relinquished:	☒ Yes	☐ No	3.
Sampler Name & Signature on COC:	☒ Yes	☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No	5.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No	6.
Rush Turn Around Time Requested:	☐ Yes	☐ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒ Yes	☐ No	8.
Correct Containers Used:	☒ Yes	☐ No	9.
-Pace Containers Used:	☒ Yes	☐ No	
Containers Intact:	☒ Yes	☐ No	10.
Filtered volume received for Dissolved tests	☐ Yes	☒ No ☐ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes	☐ No	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL			
All containers needing preservation have been checked	☒ Yes	☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # HCL613865			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☒ Yes	☐ No ☐ N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No ☒ N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #			
Headspace in VOA Vials (>6mm):	☐ Yes	☒ No ☐ N/A	15.
Trip Blank Present:	☐ Yes	☒ No ☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes	☐ No ☐ N/A	
Pace Trip Blank Lot # (if applicable):			

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

April 06, 2018

James
Wire to Water Electrical Contractors
136 Gazza Blvd
Farmingdale, NY 117351420

RE: Project: FAIR MONTHLY-3/30/18
Pace Project No.: 7046754

Dear James:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Paul Lanzillotta, Wire to Water Electrical Contractors
Caroline Mendoza, Fairchild Corporation
Stuart Skopicki, Wire to Water Electrical Contractors



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

Sample: INFLUENT #1		Lab ID: 7046754001		Collected: 03/30/18 10:30		Received: 03/30/18 12:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	04/03/18 07:40	04/04/18 02:55	7440-41-7		
Iron	711	ug/L	20.0	1	04/03/18 07:40	04/04/18 02:55	7439-89-6		
Manganese	72.7	ug/L	10.0	1	04/03/18 07:40	04/04/18 02:55	7439-96-5		
Zinc	44.0	ug/L	20.0	1	04/03/18 07:40	04/04/18 02:55	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		04/03/18 12:36	7440-41-7		
Iron, Dissolved	352	ug/L	20.0	1		04/03/18 12:36	7439-89-6		
Manganese, Dissolved	69.1	ug/L	10.0	1		04/03/18 12:36	7439-96-5		
Zinc, Dissolved	45.7	ug/L	20.0	1		04/03/18 12:36	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		04/04/18 11:31	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		04/04/18 11:31	74-87-3		
Vinyl chloride	23.8	ug/L	1.0	1		04/04/18 11:31	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		04/04/18 11:31	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		04/04/18 11:31	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		04/04/18 11:31	75-09-2		
1,1-Dichloroethene	8.3	ug/L	1.0	1		04/04/18 11:31	75-35-4		
trans-1,2-Dichloroethene	2.3	ug/L	1.0	1		04/04/18 11:31	156-60-5		
1,1-Dichloroethane	19.0	ug/L	1.0	1		04/04/18 11:31	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		04/04/18 11:31	594-20-7		
cis-1,2-Dichloroethene	249	ug/L	10.0	10		04/04/18 12:23	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		04/04/18 11:31	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		04/04/18 11:31	74-97-5		
1,1,1-Trichloroethane	1.6	ug/L	1.0	1		04/04/18 11:31	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		04/04/18 11:31	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		04/04/18 11:31	563-58-6		
Benzene	2.1	ug/L	1.0	1		04/04/18 11:31	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		04/04/18 11:31	107-06-2		
Trichloroethene	109	ug/L	1.0	1		04/04/18 11:31	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		04/04/18 11:31	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		04/04/18 11:31	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		04/04/18 11:31	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		04/04/18 11:31	10061-02-6	L1	
Toluene	<1.0	ug/L	1.0	1		04/04/18 11:31	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		04/04/18 11:31	10061-01-5	L1	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		04/04/18 11:31	79-00-5		
Tetrachloroethene	611	ug/L	10.0	10		04/04/18 12:23	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		04/04/18 11:31	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		04/04/18 11:31	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		04/04/18 11:31	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		04/04/18 11:31	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		04/04/18 11:31	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

Sample: INFLUENT #1		Lab ID: 7046754001	Collected: 03/30/18 10:30	Received: 03/30/18 12:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		04/04/18 11:31	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		04/04/18 11:31	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		04/04/18 11:31	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		04/04/18 11:31	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		04/04/18 11:31	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		04/04/18 11:31	95-49-8	L1
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		04/04/18 11:31	106-43-4	L1
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	98-06-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		04/04/18 11:31	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		04/04/18 11:31	87-68-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	87-61-6	CL
2-Butanone (MEK)	<5.0	ug/L	5.0	1		04/04/18 11:31	78-93-3	L1
2-Hexanone	<5.0	ug/L	5.0	1		04/04/18 11:31	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		04/04/18 11:31	75-15-0	
Acetone	<5.0	ug/L	5.0	1		04/04/18 11:31	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		04/04/18 11:31	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		04/04/18 11:31	110-57-6	L1
Ethanol	<250	ug/L	250	1		04/04/18 11:31	64-17-5	
Chlorodifluoromethane	1.0	ug/L	1.0	1		04/04/18 11:31	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:31	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	114	%	68-153	1		04/04/18 11:31	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-124	1		04/04/18 11:31	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		04/04/18 11:31	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	114	mg/L	10.0	1		04/04/18 14:10		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

Sample: INFLUENT #2		Lab ID: 7046754002		Collected: 03/30/18 10:45		Received: 03/30/18 12:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	04/03/18 07:40	04/04/18 02:34	7440-41-7		
Iron	679	ug/L	20.0	1	04/03/18 07:40	04/04/18 02:34	7439-89-6		
Manganese	74.4	ug/L	10.0	1	04/03/18 07:40	04/04/18 02:34	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	04/03/18 07:40	04/04/18 02:34	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		04/03/18 12:41	7440-41-7		
Iron, Dissolved	228	ug/L	20.0	1		04/03/18 12:41	7439-89-6		
Manganese, Dissolved	71.2	ug/L	10.0	1		04/03/18 12:41	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		04/03/18 12:41	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		04/04/18 13:01	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		04/04/18 13:01	74-87-3		
Vinyl chloride	<1.0	ug/L	1.0	1		04/04/18 13:01	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		04/04/18 13:01	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		04/04/18 13:01	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		04/04/18 13:01	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		04/04/18 13:01	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		04/04/18 13:01	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		04/04/18 13:01	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		04/04/18 13:01	594-20-7		
cis-1,2-Dichloroethene	1.3	ug/L	1.0	1		04/04/18 13:01	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		04/04/18 13:01	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		04/04/18 13:01	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		04/04/18 13:01	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		04/04/18 13:01	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		04/04/18 13:01	563-58-6		
Benzene	<1.0	ug/L	1.0	1		04/04/18 13:01	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		04/04/18 13:01	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		04/04/18 13:01	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		04/04/18 13:01	78-87-5	M1	
Bromodichloromethane	<1.0	ug/L	1.0	1		04/04/18 13:01	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		04/04/18 13:01	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		04/04/18 13:01	10061-02-6	L1,M0	
Toluene	<1.0	ug/L	1.0	1		04/04/18 13:01	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		04/04/18 13:01	10061-01-5	L1,M0	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		04/04/18 13:01	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		04/04/18 13:01	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		04/04/18 13:01	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		04/04/18 13:01	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		04/04/18 13:01	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		04/04/18 13:01	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		04/04/18 13:01	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

Sample: INFLUENT #2		Lab ID: 7046754002	Collected: 03/30/18 10:45	Received: 03/30/18 12:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		04/04/18 13:01	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		04/04/18 13:01	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		04/04/18 13:01	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		04/04/18 13:01	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	108-86-1	M1
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		04/04/18 13:01	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		04/04/18 13:01	95-49-8	L1,M0
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		04/04/18 13:01	106-43-4	L1,M0
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	98-06-6	M1
p-Isopropyltoluene	<1.0	ug/L	1.0	1		04/04/18 13:01	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		04/04/18 13:01	87-68-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	87-61-6	CL
2-Butanone (MEK)	<5.0	ug/L	5.0	1		04/04/18 13:01	78-93-3	L1,M0
2-Hexanone	<5.0	ug/L	5.0	1		04/04/18 13:01	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		04/04/18 13:01	75-15-0	
Acetone	<5.0	ug/L	5.0	1		04/04/18 13:01	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		04/04/18 13:01	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		04/04/18 13:01	110-57-6	L1
Ethanol	<250	ug/L	250	1		04/04/18 13:01	64-17-5	
Chlorodifluoromethane	<1.0	ug/L	1.0	1		04/04/18 13:01	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		04/04/18 13:01	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	68-153	1		04/04/18 13:01	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		04/04/18 13:01	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		04/04/18 13:01	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	102	mg/L	10.0	1		04/04/18 14:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

Sample: EFFLUENT #1		Lab ID: 7046754003		Collected: 03/30/18 11:00		Received: 03/30/18 12:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	04/03/18 07:40	04/04/18 02:39	7440-41-7		
Iron	646	ug/L	20.0	1	04/03/18 07:40	04/04/18 02:39	7439-89-6		
Manganese	74.0	ug/L	10.0	1	04/03/18 07:40	04/04/18 02:39	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	04/03/18 07:40	04/04/18 02:39	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		04/03/18 12:42	7440-41-7		
Iron, Dissolved	56.0	ug/L	20.0	1		04/03/18 12:42	7439-89-6		
Manganese, Dissolved	69.7	ug/L	10.0	1		04/03/18 12:42	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		04/03/18 12:42	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		04/04/18 11:13	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		04/04/18 11:13	74-87-3		
Vinyl chloride	<1.0	ug/L	1.0	1		04/04/18 11:13	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		04/04/18 11:13	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		04/04/18 11:13	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		04/04/18 11:13	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		04/04/18 11:13	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		04/04/18 11:13	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		04/04/18 11:13	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		04/04/18 11:13	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		04/04/18 11:13	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		04/04/18 11:13	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		04/04/18 11:13	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		04/04/18 11:13	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		04/04/18 11:13	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		04/04/18 11:13	563-58-6		
Benzene	<1.0	ug/L	1.0	1		04/04/18 11:13	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		04/04/18 11:13	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		04/04/18 11:13	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		04/04/18 11:13	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		04/04/18 11:13	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		04/04/18 11:13	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		04/04/18 11:13	10061-02-6	L1	
Toluene	<1.0	ug/L	1.0	1		04/04/18 11:13	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		04/04/18 11:13	10061-01-5	L1	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		04/04/18 11:13	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		04/04/18 11:13	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		04/04/18 11:13	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		04/04/18 11:13	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		04/04/18 11:13	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		04/04/18 11:13	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		04/04/18 11:13	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

Sample: EFFLUENT #1		Lab ID: 7046754003	Collected: 03/30/18 11:00	Received: 03/30/18 12:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		04/04/18 11:13	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		04/04/18 11:13	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		04/04/18 11:13	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		04/04/18 11:13	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		04/04/18 11:13	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		04/04/18 11:13	95-49-8	L1
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		04/04/18 11:13	106-43-4	L1
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	98-06-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		04/04/18 11:13	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		04/04/18 11:13	87-68-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	87-61-6	CL
2-Butanone (MEK)	<5.0	ug/L	5.0	1		04/04/18 11:13	78-93-3	L1
2-Hexanone	<5.0	ug/L	5.0	1		04/04/18 11:13	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		04/04/18 11:13	75-15-0	
Acetone	<5.0	ug/L	5.0	1		04/04/18 11:13	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		04/04/18 11:13	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		04/04/18 11:13	110-57-6	L1
Ethanol	<250	ug/L	250	1		04/04/18 11:13	64-17-5	
Chlorodifluoromethane	<1.0	ug/L	1.0	1		04/04/18 11:13	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		04/04/18 11:13	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	68-153	1		04/04/18 11:13	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		04/04/18 11:13	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		04/04/18 11:13	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	86.0	mg/L	10.0	1		04/04/18 14:11		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

QC Batch:	61659	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	7046754001, 7046754002, 7046754003		

METHOD BLANK: 282878 Matrix: Water

Associated Lab Samples: 7046754001, 7046754002, 7046754003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	5.0	04/03/18 12:34	
Iron, Dissolved	ug/L	<20.0	20.0	04/03/18 12:34	
Manganese, Dissolved	ug/L	<10.0	10.0	04/03/18 12:34	
Zinc, Dissolved	ug/L	<20.0	20.0	04/03/18 12:34	

LABORATORY CONTROL SAMPLE: 282879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	50	49.0	98	85-115	
Iron, Dissolved	ug/L	2000	1940	97	85-115	
Manganese, Dissolved	ug/L	250	238	95	85-115	
Zinc, Dissolved	ug/L	1000	950	95	85-115	

MATRIX SPIKE SAMPLE: 282882

Parameter	Units	7046754001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	50	49.9	100	70-130	
Iron, Dissolved	ug/L	352	2000	2380	101	70-130	
Manganese, Dissolved	ug/L	69.1	250	320	100	70-130	
Zinc, Dissolved	ug/L	45.7	1000	1050	100	70-130	

SAMPLE DUPLICATE: 282881

Parameter	Units	7046754001 Result	Dup Result	RPD	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	<5.0		
Iron, Dissolved	ug/L	352	363	3	
Manganese, Dissolved	ug/L	69.1	70.6	2	
Zinc, Dissolved	ug/L	45.7	46.6	2	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

QC Batch: 61714 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7046754001, 7046754002, 7046754003

METHOD BLANK: 283075 Matrix: Water

Associated Lab Samples: 7046754001, 7046754002, 7046754003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium	ug/L	<5.0	5.0	04/04/18 01:49	
Iron	ug/L	<20.0	20.0	04/04/18 01:49	
Manganese	ug/L	<10.0	10.0	04/04/18 01:49	
Zinc	ug/L	<20.0	20.0	04/04/18 01:49	

LABORATORY CONTROL SAMPLE: 283076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	50	48.6	97	85-115	
Iron	ug/L	2000	1880	94	85-115	
Manganese	ug/L	250	240	96	85-115	
Zinc	ug/L	1000	958	96	85-115	

MATRIX SPIKE SAMPLE: 283078

Parameter	Units	7046687001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	47.5	95	70-130	
Iron	ug/L	467	2000	2000	77	70-130	
Manganese	ug/L	45.6	250	282	95	70-130	
Zinc	ug/L	0.18 mg/L	1000	1130	95	70-130	

MATRIX SPIKE SAMPLE: 283080

Parameter	Units	7046754001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	46.7	93	70-130	
Iron	ug/L	711	2000	2520	90	70-130	
Manganese	ug/L	72.7	250	299	91	70-130	
Zinc	ug/L	44.0	1000	982	94	70-130	

SAMPLE DUPLICATE: 283077

Parameter	Units	7046687001 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	467	472	1	
Manganese	ug/L	45.6	46.3	2	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

SAMPLE DUPLICATE: 283077

Parameter	Units	7046687001 Result	Dup Result	RPD	Qualifiers
Zinc	ug/L	0.18 mg/L	225	23	D6

SAMPLE DUPLICATE: 283079

Parameter	Units	7046754001 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	711	729	2	
Manganese	ug/L	72.7	74.7	3	
Zinc	ug/L	44.0	44.8	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

QC Batch:	61842	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
Associated Lab Samples:	7046754001, 7046754002, 7046754003		

METHOD BLANK: 283871 Matrix: Water

Associated Lab Samples: 7046754001, 7046754002, 7046754003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	04/04/18 06:22	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	04/04/18 06:22	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	04/04/18 06:22	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	04/04/18 06:22	
1,1-Dichloroethane	ug/L	<1.0	1.0	04/04/18 06:22	
1,1-Dichloroethene	ug/L	<1.0	1.0	04/04/18 06:22	
1,1-Dichloropropene	ug/L	<1.0	1.0	04/04/18 06:22	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	04/04/18 06:22	CL
1,2,3-Trichloropropane	ug/L	<1.0	1.0	04/04/18 06:22	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	04/04/18 06:22	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	04/04/18 06:22	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	04/04/18 06:22	
1,2-Dichloroethane	ug/L	<1.0	1.0	04/04/18 06:22	
1,2-Dichloropropane	ug/L	<1.0	1.0	04/04/18 06:22	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	04/04/18 06:22	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	04/04/18 06:22	
1,3-Dichloropropane	ug/L	<1.0	1.0	04/04/18 06:22	
1,4-Diethylbenzene	ug/L	<1.0	1.0	04/04/18 06:22	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	04/04/18 06:22	
2-Butanone (MEK)	ug/L	<5.0	5.0	04/04/18 06:22	
2-Chlorotoluene	ug/L	<1.0	1.0	04/04/18 06:22	
2-Hexanone	ug/L	<5.0	5.0	04/04/18 06:22	
4-Chlorotoluene	ug/L	<1.0	1.0	04/04/18 06:22	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	04/04/18 06:22	
Acetone	ug/L	<5.0	5.0	04/04/18 06:22	
Benzene	ug/L	<1.0	1.0	04/04/18 06:22	
Bromobenzene	ug/L	<1.0	1.0	04/04/18 06:22	
Bromochloromethane	ug/L	<1.0	1.0	04/04/18 06:22	
Bromodichloromethane	ug/L	<1.0	1.0	04/04/18 06:22	
Bromoform	ug/L	<1.0	1.0	04/04/18 06:22	
Bromomethane	ug/L	<1.0	1.0	04/04/18 06:22	
Carbon disulfide	ug/L	<1.0	1.0	04/04/18 06:22	
Carbon tetrachloride	ug/L	<1.0	1.0	04/04/18 06:22	
Chlorobenzene	ug/L	<1.0	1.0	04/04/18 06:22	
Chlorodifluoromethane	ug/L	<1.0	1.0	04/04/18 06:22	N3
Chloroethane	ug/L	<1.0	1.0	04/04/18 06:22	
Chloroform	ug/L	<1.0	1.0	04/04/18 06:22	
Chloromethane	ug/L	<1.0	1.0	04/04/18 06:22	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	04/04/18 06:22	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	04/04/18 06:22	
Dibromochloromethane	ug/L	<1.0	1.0	04/04/18 06:22	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

METHOD BLANK: 283871

Matrix: Water

Associated Lab Samples: 7046754001, 7046754002, 7046754003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	04/04/18 06:22	CL
Dichlorodifluoromethane	ug/L	<1.0	1.0	04/04/18 06:22	
Ethanol	ug/L	<250	250	04/04/18 06:22	
Ethylbenzene	ug/L	<1.0	1.0	04/04/18 06:22	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	04/04/18 06:22	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	04/04/18 06:22	
Methylene Chloride	ug/L	<1.0	1.0	04/04/18 06:22	
n-Butylbenzene	ug/L	<1.0	1.0	04/04/18 06:22	
n-Propylbenzene	ug/L	<1.0	1.0	04/04/18 06:22	
p-Isopropyltoluene	ug/L	<1.0	1.0	04/04/18 06:22	
sec-Butylbenzene	ug/L	<1.0	1.0	04/04/18 06:22	
Styrene	ug/L	<1.0	1.0	04/04/18 06:22	
tert-Butylbenzene	ug/L	<1.0	1.0	04/04/18 06:22	
Tetrachloroethene	ug/L	<1.0	1.0	04/04/18 06:22	
Toluene	ug/L	<1.0	1.0	04/04/18 06:22	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	04/04/18 06:22	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	04/04/18 06:22	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	04/04/18 06:22	
Trichloroethene	ug/L	<1.0	1.0	04/04/18 06:22	
Vinyl chloride	ug/L	<1.0	1.0	04/04/18 06:22	
Xylene (Total)	ug/L	<3.0	3.0	04/04/18 06:22	
1,2-Dichloroethane-d4 (S)	%	111	68-153	04/04/18 06:22	
4-Bromofluorobenzene (S)	%	99	79-124	04/04/18 06:22	
Toluene-d8 (S)	%	98	69-124	04/04/18 06:22	

LABORATORY CONTROL SAMPLE: 283872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.4	97	74-113	
1,1,1-Trichloroethane	ug/L	50	50.4	101	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	55.2	110	74-121	
1,1,2-Trichloroethane	ug/L	50	52.4	105	80-117	
1,1-Dichloroethane	ug/L	50	58.1	116	83-151	
1,1-Dichloroethene	ug/L	50	52.1	104	45-146	
1,1-Dichloropropene	ug/L	50	54.5	109	59-127	
1,2,3-Trichlorobenzene	ug/L	50	41.7	83	67-103	CL
1,2,3-Trichloropropane	ug/L	50	50.3	101	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	45.7	91	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	49.5	99	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	83-115	
1,2-Dichloroethane	ug/L	50	51.9	104	74-129	
1,2-Dichloropropane	ug/L	50	56.8	114	75-117	
1,3,5-Trimethylbenzene	ug/L	50	49.3	99	67-116	
1,3-Dichlorobenzene	ug/L	50	50.9	102	71-112	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

LABORATORY CONTROL SAMPLE: 283872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	49.5	99	74-112	
1,4-Diethylbenzene	ug/L	50	46.3	93	56-130	N3
2,2-Dichloropropane	ug/L	50	52.6	105	63-133	
2-Butanone (MEK)	ug/L	50	109	217	44-162	CH,IH,L1
2-Chlorotoluene	ug/L	50	53.2	106	74-101	L1
2-Hexanone	ug/L	50	59.1	118	32-183	CH
4-Chlorotoluene	ug/L	50	54.4	109	74-101	L1
4-Methyl-2-pentanone (MIBK)	ug/L	50	61.4	123	69-132	
Acetone	ug/L	50	54.8	110	23-188	CH
Benzene	ug/L	50	52.9	106	73-119	
Bromobenzene	ug/L	50	50.3	101	72-102	
Bromochloromethane	ug/L	50	49.8	100	81-116	
Bromodichloromethane	ug/L	50	53.3	107	78-117	
Bromoform	ug/L	50	49.3	99	65-122	
Bromomethane	ug/L	50	51.2	102	52-147	
Carbon disulfide	ug/L	50	49.3	99	41-144	
Carbon tetrachloride	ug/L	50	50.6	101	59-120	
Chlorobenzene	ug/L	50	46.0	92	75-113	
Chlorodifluoromethane	ug/L	50	48.8	98	43-140	N3
Chloroethane	ug/L	50	51.1	102	49-151	
Chloroform	ug/L	50	52.6	105	72-122	
Chloromethane	ug/L	50	51.0	102	46-144	
cis-1,2-Dichloroethene	ug/L	50	53.2	106	72-121	
cis-1,3-Dichloropropene	ug/L	50	58.8	118	78-116	L1
Dibromochloromethane	ug/L	50	46.7	93	70-120	
Dibromomethane	ug/L	50	50.3	101	75-125	
Dichlorodifluoromethane	ug/L	50	32.6	65	22-154	CL
Ethanol	ug/L	1250	1360	109	10-151	
Ethylbenzene	ug/L	50	45.8	92	70-113	
Hexachloro-1,3-butadiene	ug/L	50	42.3	85	59-121	
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	67-115	
Methylene Chloride	ug/L	50	51.9	104	61-142	
n-Butylbenzene	ug/L	50	49.3	99	73-107	
n-Propylbenzene	ug/L	50	51.5	103	68-116	
p-Isopropyltoluene	ug/L	50	45.6	91	73-101	
sec-Butylbenzene	ug/L	50	48.3	97	72-103	
Styrene	ug/L	50	47.9	96	72-118	
tert-Butylbenzene	ug/L	50	48.2	96	68-100	
Tetrachloroethene	ug/L	50	44.2	88	60-128	
Toluene	ug/L	50	50.1	100	72-119	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	56-142	
trans-1,3-Dichloropropene	ug/L	50	59.7	119	79-116	L1
trans-1,4-Dichloro-2-butene	ug/L	50	64.6	129	71-121	CH,L1
Trichloroethene	ug/L	50	46.6	93	69-117	
Vinyl chloride	ug/L	50	49.4	99	43-143	
Xylene (Total)	ug/L	150	139	92	71-109	
1,2-Dichloroethane-d4 (S)	%			107	68-153	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

LABORATORY CONTROL SAMPLE: 283872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	79-124	
Toluene-d8 (S)	%			97	69-124	

MATRIX SPIKE SAMPLE: 284321

Parameter	Units	7046754002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50.6	101	74-113	
1,1,1-Trichloroethane	ug/L	<1.0	50	57.0	114	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	52.6	105	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	53.4	107	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	64.5	129	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	58.9	118	45-146	
1,1-Dichloropropene	ug/L	<1.0	50	63.2	126	59-127	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	40.6	81	67-103	CL
1,2,3-Trichloropropane	ug/L	<1.0	50	48.8	98	71-123	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	46.1	92	66-103	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	50	51.5	103	68-116	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	51.4	103	83-115	
1,2-Dichloroethane	ug/L	<1.0	50	53.2	106	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	61.5	123	75-117	M1
1,3,5-Trimethylbenzene	ug/L	<1.0	50	51.5	103	67-116	
1,3-Dichlorobenzene	ug/L	<1.0	50	53.6	107	71-112	
1,3-Dichloropropane	ug/L	<1.0	50	51.1	102	74-112	
1,4-Diethylbenzene	ug/L	<1.0	50	48.8	98	56-130	N3
2,2-Dichloropropane	ug/L	<1.0	50	56.5	113	63-133	
2-Butanone (MEK)	ug/L	<5.0	50	106	211	44-162	CH,IH,M0
2-Chlorotoluene	ug/L	<1.0	50	55.1	110	74-101	M0
2-Hexanone	ug/L	<5.0	50	56.8	114	32-183	CH
4-Chlorotoluene	ug/L	<1.0	50	56.1	112	74-101	M0
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	60.2	120	69-132	
Acetone	ug/L	<5.0	50	53.9	108	23-188	CH
Benzene	ug/L	<1.0	50	59.2	118	73-119	
Bromobenzene	ug/L	<1.0	50	53.4	107	72-102	M1
Bromochloromethane	ug/L	<1.0	50	53.1	106	81-116	
Bromodichloromethane	ug/L	<1.0	50	56.5	113	78-117	
Bromoform	ug/L	<1.0	50	48.5	97	65-122	
Bromomethane	ug/L	<1.0	50	55.1	110	52-147	
Carbon disulfide	ug/L	<1.0	50	56.1	112	41-144	
Carbon tetrachloride	ug/L	<1.0	50	57.5	115	59-120	
Chlorobenzene	ug/L	<1.0	50	49.6	99	75-113	
Chlorodifluoromethane	ug/L	<1.0	50	57.0	114	43-140	N3
Chloroethane	ug/L	<1.0	50	59.5	119	49-151	
Chloroform	ug/L	<1.0	50	56.6	113	72-122	
Chloromethane	ug/L	<1.0	50	61.1	122	46-144	
cis-1,2-Dichloroethene	ug/L	1.3	50	59.0	116	72-121	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

MATRIX SPIKE SAMPLE: 284321		7046754002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
cis-1,3-Dichloropropene	ug/L	<1.0	50	62.1	124	78-116	M0
Dibromochloromethane	ug/L	<1.0	50	47.8	96	70-120	
Dibromomethane	ug/L	<1.0	50	52.4	105	75-125	
Dichlorodifluoromethane	ug/L	<1.0	50	37.5	75	22-154	CL
Ethanol	ug/L	<250	1250	1340	107	10-151	
Ethylbenzene	ug/L	<1.0	50	49.8	100	70-113	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	43.5	87	59-121	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	54.4	109	67-115	
Methylene Chloride	ug/L	<1.0	50	58.9	118	61-142	
n-Butylbenzene	ug/L	<1.0	50	50.9	102	73-107	
n-Propylbenzene	ug/L	<1.0	50	55.2	110	68-116	
p-Isopropyltoluene	ug/L	<1.0	50	48.2	96	73-101	
sec-Butylbenzene	ug/L	<1.0	50	51.2	102	72-103	
Styrene	ug/L	<1.0	50	50.2	100	72-118	
tert-Butylbenzene	ug/L	<1.0	50	51.4	103	68-100	M1
Tetrachloroethene	ug/L	<1.0	50	50.7	101	60-128	
Toluene	ug/L	<1.0	50	55.2	110	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	60.2	120	56-142	
trans-1,3-Dichloropropene	ug/L	<1.0	50	60.6	121	79-116	M0
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	60.4	121	71-121	CH
Trichloroethene	ug/L	<1.0	50	52.7	105	69-117	
Vinyl chloride	ug/L	<1.0	50	59.9	120	43-143	
Xylene (Total)	ug/L	<3.0	150	149	99	71-109	
1,2-Dichloroethane-d4 (S)	%				110	68-153	
4-Bromofluorobenzene (S)	%				99	79-124	
Toluene-d8 (S)	%				97	69-124	

SAMPLE DUPLICATE: 284322

Parameter	Units	7046754002	Dup	RPD	Qualifiers
		Result	Result		
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,1-Dichloropropene	ug/L	<1.0	<1.0		
1,2,3-Trichlorobenzene	ug/L	<1.0	<1.0		CL
1,2,3-Trichloropropane	ug/L	<1.0	<1.0		
1,2,4,5-tetramethylbenzene	ug/L	<1.0	<1.0		N3
1,2,4-Trimethylbenzene	ug/L	<1.0	<1.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3,5-Trimethylbenzene	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

SAMPLE DUPLICATE: 284322

Parameter	Units	7046754002 Result	Dup Result	RPD	Qualifiers
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,3-Dichloropropane	ug/L	<1.0	<1.0		
1,4-Diethylbenzene	ug/L	<1.0	<1.0		N3
2,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Chlorotoluene	ug/L	<1.0	<1.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Chlorotoluene	ug/L	<1.0	<1.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		CH
Benzene	ug/L	<1.0	<1.0		
Bromobenzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chlorodifluoromethane	ug/L	<1.0	<1.0		N3
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	ug/L	1.3	1.4	6	
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dibromomethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		CL
Ethanol	ug/L	<250	<250		
Ethylbenzene	ug/L	<1.0	<1.0		
Hexachloro-1,3-butadiene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
n-Propylbenzene	ug/L	<1.0	<1.0		
p-Isopropyltoluene	ug/L	<1.0	<1.0		
sec-Butylbenzene	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	1.1		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
trans-1,4-Dichloro-2-butene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

SAMPLE DUPLICATE: 284322

Parameter	Units	7046754002 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	110	112	2	
4-Bromofluorobenzene (S)	%	98	100	2	
Toluene-d8 (S)	%	97	97	1	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

QC Batch: 61990 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 7046754001, 7046754002, 7046754003

METHOD BLANK: 284206 Matrix: Water

Associated Lab Samples: 7046754001, 7046754002, 7046754003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	04/04/18 14:08	

LABORATORY CONTROL SAMPLE: 284207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	230	92	85-115	

MATRIX SPIKE SAMPLE: 284209

Parameter	Units	7046937002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1050	600	1630	98	75-125	

SAMPLE DUPLICATE: 284208

Parameter	Units	7046937002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	1050	1080	4	

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QUALIFIERS

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FAIR MONTHLY-3/30/18

Pace Project No.: 7046754

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7046754001	INFLUENT #1	EPA 200.7	61714	EPA 200.7	61720
7046754002	INFLUENT #2	EPA 200.7	61714	EPA 200.7	61720
7046754003	EFFLUENT #1	EPA 200.7	61714	EPA 200.7	61720
7046754001	INFLUENT #1	EPA 200.7	61659		
7046754002	INFLUENT #2	EPA 200.7	61659		
7046754003	EFFLUENT #1	EPA 200.7	61659		
7046754001	INFLUENT #1	EPA 8260C/5030C	61842		
7046754002	INFLUENT #2	EPA 8260C/5030C	61842		
7046754003	EFFLUENT #1	EPA 8260C/5030C	61842		
7046754001	INFLUENT #1	SM22 2540C	61990		
7046754002	INFLUENT #2	SM22 2540C	61990		
7046754003	EFFLUENT #1	SM22 2540C	61990		

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Sample Condition Upon F

WO#: 7046754

Client Name: FAIRCHILD

PM: JDS Due Date: 04/10/18
CLIENT: FAIR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: 0.0

Cooler Temperature (°C): 3.7

Cooler Temperature Corrected (°C): 3.7

Temp should be above freezing to 6.0°C

USDA Regulated Soil ☒ N/A, water sample

Date and Initials of person examining contents: JK 3/30/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☒ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	
Containers Intact:	☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests	☐ Yes ☒ No ☐ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL		
All containers needing preservation have been checked	☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # HC727135		Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis		Initial when completed: Lot # of added preservative: Date/Time preservative added
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #		
Residual chlorine strips Lot #		
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Time of collection was transcribed off DOTXK

June 11, 2018

James
Wire to Water Electrical Contractors
136 Gazza Blvd
Farmingdale, NY 117351420

RE: Project: FAIR MONTHLY 5/29
Pace Project No.: 7052817

Dear James:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Paul Lanzillotta, Wire to Water Electrical Contractors
Caroline Mendoza, Fairchild Corporation
Stuart Skopicki, Wire to Water Electrical Contractors



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

Sample: INFLUENT #1		Lab ID: 7052817001		Collected: 05/25/18 10:30		Received: 05/25/18 12:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	05/29/18 09:45	05/29/18 22:35	7440-41-7		
Iron	860	ug/L	20.0	1	05/29/18 09:45	05/29/18 22:35	7439-89-6		
Manganese	72.0	ug/L	10.0	1	05/29/18 09:45	05/29/18 22:35	7439-96-5		
Zinc	48.1	ug/L	20.0	1	05/29/18 09:45	05/29/18 22:35	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		05/29/18 17:31	7440-41-7		
Iron, Dissolved	843	ug/L	20.0	1		05/29/18 17:31	7439-89-6		
Manganese, Dissolved	73.8	ug/L	10.0	1		05/29/18 17:31	7439-96-5		
Zinc, Dissolved	58.5	ug/L	20.0	1		05/29/18 17:31	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		06/07/18 00:11	75-71-8		
Chloromethane	<1.0	ug/L	1.0	1		06/07/18 00:11	74-87-3		
Vinyl chloride	22.3	ug/L	1.0	1		06/07/18 00:11	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		06/07/18 00:11	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		06/07/18 00:11	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		06/07/18 00:11	75-09-2		
1,1-Dichloroethene	8.3	ug/L	1.0	1		06/07/18 00:11	75-35-4		
trans-1,2-Dichloroethene	4.5	ug/L	1.0	1		06/07/18 00:11	156-60-5		
1,1-Dichloroethane	16.4	ug/L	1.0	1		06/07/18 00:11	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		06/07/18 00:11	594-20-7		
cis-1,2-Dichloroethene	239	ug/L	10.0	10		06/07/18 09:25	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		06/07/18 00:11	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		06/07/18 00:11	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		06/07/18 00:11	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		06/07/18 00:11	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		06/07/18 00:11	563-58-6		
Benzene	2.0	ug/L	1.0	1		06/07/18 00:11	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		06/07/18 00:11	107-06-2		
Trichloroethene	129	ug/L	1.0	1		06/07/18 00:11	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		06/07/18 00:11	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		06/07/18 00:11	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		06/07/18 00:11	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/07/18 00:11	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		06/07/18 00:11	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/07/18 00:11	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		06/07/18 00:11	79-00-5		
Tetrachloroethene	714	ug/L	10.0	10		06/07/18 09:25	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		06/07/18 00:11	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		06/07/18 00:11	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		06/07/18 00:11	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		06/07/18 00:11	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		06/07/18 00:11	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

Sample: INFLUENT #1		Lab ID: 7052817001	Collected: 05/25/18 10:30	Received: 05/25/18 12:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		06/07/18 00:11	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		06/07/18 00:11	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		06/07/18 00:11	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		06/07/18 00:11	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		06/07/18 00:11	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		06/07/18 00:11	95-49-8	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		06/07/18 00:11	106-43-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	98-06-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		06/07/18 00:11	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		06/07/18 00:11	87-68-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	87-61-6	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		06/07/18 00:11	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		06/07/18 00:11	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		06/07/18 00:11	75-15-0	
Acetone	<5.0	ug/L	5.0	1		06/07/18 00:11	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		06/07/18 00:11	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		06/07/18 00:11	110-57-6	
Ethanol	<250	ug/L	250	1		06/07/18 00:11	64-17-5	CL
Chlorodifluoromethane	<1.0	ug/L	1.0	1		06/07/18 00:11	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		06/07/18 00:11	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		06/07/18 00:11	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		06/07/18 00:11	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		06/07/18 00:11	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	129	mg/L	10.0	1		05/31/18 14:10		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

Sample: INFLUENT #2		Lab ID: 7052817002		Collected: 05/25/18 10:45		Received: 05/25/18 12:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	05/29/18 09:45	05/29/18 22:41	7440-41-7		
Iron	687	ug/L	20.0	1	05/29/18 09:45	05/29/18 22:41	7439-89-6		
Manganese	70.9	ug/L	10.0	1	05/29/18 09:45	05/29/18 22:41	7439-96-5		
Zinc	20.1	ug/L	20.0	1	05/29/18 09:45	05/29/18 22:41	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		05/29/18 17:32	7440-41-7		
Iron, Dissolved	201	ug/L	20.0	1		05/29/18 17:32	7439-89-6		
Manganese, Dissolved	72.9	ug/L	10.0	1		05/29/18 17:32	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		05/29/18 17:32	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		06/07/18 09:07	75-71-8		
Chloromethane	<1.0	ug/L	1.0	1		06/07/18 09:07	74-87-3		
Vinyl chloride	<1.0	ug/L	1.0	1		06/07/18 09:07	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		06/07/18 09:07	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		06/07/18 09:07	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		06/07/18 09:07	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		06/07/18 09:07	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		06/07/18 09:07	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		06/07/18 09:07	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		06/07/18 09:07	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		06/07/18 09:07	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		06/07/18 09:07	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		06/07/18 09:07	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		06/07/18 09:07	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		06/07/18 09:07	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		06/07/18 09:07	563-58-6		
Benzene	<1.0	ug/L	1.0	1		06/07/18 09:07	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		06/07/18 09:07	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		06/07/18 09:07	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		06/07/18 09:07	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		06/07/18 09:07	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		06/07/18 09:07	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/07/18 09:07	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		06/07/18 09:07	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/07/18 09:07	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		06/07/18 09:07	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		06/07/18 09:07	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		06/07/18 09:07	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		06/07/18 09:07	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		06/07/18 09:07	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		06/07/18 09:07	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		06/07/18 09:07	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

Sample: INFLUENT #2		Lab ID: 7052817002		Collected: 05/25/18 10:45		Received: 05/25/18 12:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Styrene	<1.0	ug/L	1.0	1		06/07/18 09:07	100-42-5		
Bromoform	<1.0	ug/L	1.0	1		06/07/18 09:07	75-25-2		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		06/07/18 09:07	98-82-8		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		06/07/18 09:07	79-34-5		
Bromobenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	108-86-1		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		06/07/18 09:07	96-18-4		
n-Propylbenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	103-65-1		
2-Chlorotoluene	<1.0	ug/L	1.0	1		06/07/18 09:07	95-49-8		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	108-67-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		06/07/18 09:07	106-43-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	95-63-6		
sec-Butylbenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	98-06-6		
p-Isopropyltoluene	<1.0	ug/L	1.0	1		06/07/18 09:07	99-87-6		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	541-73-1		
n-Butylbenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	104-51-8		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		06/07/18 09:07	87-68-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	87-61-6	CL	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		06/07/18 09:07	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		06/07/18 09:07	591-78-6		
Carbon disulfide	<1.0	ug/L	1.0	1		06/07/18 09:07	75-15-0		
Acetone	<5.0	ug/L	5.0	1		06/07/18 09:07	67-64-1		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		06/07/18 09:07	108-10-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		06/07/18 09:07	110-57-6		
Ethanol	<250	ug/L	250	1		06/07/18 09:07	64-17-5	CL	
Chlorodifluoromethane	<1.0	ug/L	1.0	1		06/07/18 09:07	75-45-6	N3	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	105-05-5	N3	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		06/07/18 09:07	95-93-2	N3	
Surrogates									
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		06/07/18 09:07	17060-07-0		
4-Bromofluorobenzene (S)	100	%	79-124	1		06/07/18 09:07	460-00-4		
Toluene-d8 (S)	96	%	69-124	1		06/07/18 09:07	2037-26-5		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	125	mg/L	10.0	1		05/31/18 14:11			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

Sample: EFFLUENT #1		Lab ID: 7052817003		Collected: 05/25/18 10:45		Received: 05/25/18 12:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	05/29/18 09:45	05/29/18 23:19	7440-41-7		
Iron	684	ug/L	20.0	1	05/29/18 09:45	05/29/18 23:19	7439-89-6		
Manganese	72.9	ug/L	10.0	1	05/29/18 09:45	05/29/18 23:19	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	05/29/18 09:45	05/29/18 23:19	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		05/29/18 17:33	7440-41-7		
Iron, Dissolved	435	ug/L	20.0	1		05/29/18 17:33	7439-89-6		
Manganese, Dissolved	76.9	ug/L	10.0	1		05/29/18 17:33	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		05/29/18 17:33	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		06/06/18 23:35	75-71-8		
Chloromethane	<1.0	ug/L	1.0	1		06/06/18 23:35	74-87-3		
Vinyl chloride	<1.0	ug/L	1.0	1		06/06/18 23:35	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		06/06/18 23:35	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		06/06/18 23:35	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		06/06/18 23:35	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		06/06/18 23:35	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		06/06/18 23:35	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		06/06/18 23:35	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		06/06/18 23:35	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		06/06/18 23:35	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		06/06/18 23:35	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		06/06/18 23:35	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		06/06/18 23:35	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		06/06/18 23:35	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		06/06/18 23:35	563-58-6		
Benzene	<1.0	ug/L	1.0	1		06/06/18 23:35	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		06/06/18 23:35	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		06/06/18 23:35	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		06/06/18 23:35	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		06/06/18 23:35	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		06/06/18 23:35	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/06/18 23:35	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		06/06/18 23:35	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/06/18 23:35	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		06/06/18 23:35	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		06/06/18 23:35	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		06/06/18 23:35	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		06/06/18 23:35	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		06/06/18 23:35	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		06/06/18 23:35	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		06/06/18 23:35	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

Sample: EFFLUENT #1		Lab ID: 7052817003	Collected: 05/25/18 10:45	Received: 05/25/18 12:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		06/06/18 23:35	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		06/06/18 23:35	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		06/06/18 23:35	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		06/06/18 23:35	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		06/06/18 23:35	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		06/06/18 23:35	95-49-8	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		06/06/18 23:35	106-43-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	98-06-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		06/06/18 23:35	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		06/06/18 23:35	87-68-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	87-61-6	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		06/06/18 23:35	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		06/06/18 23:35	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		06/06/18 23:35	75-15-0	
Acetone	<5.0	ug/L	5.0	1		06/06/18 23:35	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		06/06/18 23:35	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		06/06/18 23:35	110-57-6	
Ethanol	<250	ug/L	250	1		06/06/18 23:35	64-17-5	CL
Chlorodifluoromethane	<1.0	ug/L	1.0	1		06/06/18 23:35	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		06/06/18 23:35	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	68-153	1		06/06/18 23:35	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-124	1		06/06/18 23:35	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		06/06/18 23:35	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	135	mg/L	10.0	1		05/31/18 14:12		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

QC Batch:	69098	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	7052817001, 7052817002, 7052817003		

METHOD BLANK: 316783 Matrix: Water

Associated Lab Samples: 7052817001, 7052817002, 7052817003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	5.0	05/29/18 17:29	
Iron, Dissolved	ug/L	<20.0	20.0	05/29/18 17:29	
Manganese, Dissolved	ug/L	<10.0	10.0	05/29/18 17:29	
Zinc, Dissolved	ug/L	<20.0	20.0	05/29/18 17:29	

LABORATORY CONTROL SAMPLE: 316784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	50	48.9	98	85-115	
Iron, Dissolved	ug/L	2000	1950	98	85-115	
Manganese, Dissolved	ug/L	250	245	98	85-115	
Zinc, Dissolved	ug/L	1000	981	98	85-115	

MATRIX SPIKE SAMPLE: 316786

Parameter	Units	7052792001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	50	49.8	100	70-130	
Iron, Dissolved	ug/L	<20.0	2000	2040	102	70-130	
Manganese, Dissolved	ug/L	1640	250	1840	80	70-130	
Zinc, Dissolved	ug/L	<20.0	1000	1040	103	70-130	

SAMPLE DUPLICATE: 316785

Parameter	Units	7052792001 Result	Dup Result	RPD	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	<5.0		
Iron, Dissolved	ug/L	<20.0	<20.0		
Manganese, Dissolved	ug/L	1640	1640	0	
Zinc, Dissolved	ug/L	<20.0	<20.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

QC Batch: 69197 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7052817001, 7052817002, 7052817003

METHOD BLANK: 317118 Matrix: Water

Associated Lab Samples: 7052817001, 7052817002, 7052817003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium	ug/L	<5.0	5.0	05/29/18 21:51	
Iron	ug/L	<20.0	20.0	05/29/18 21:51	
Manganese	ug/L	<10.0	10.0	05/29/18 21:51	
Zinc	ug/L	<20.0	20.0	05/29/18 21:51	

LABORATORY CONTROL SAMPLE: 317119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	50	49.0	98	85-115	
Iron	ug/L	2000	1990	99	85-115	
Manganese	ug/L	250	243	97	85-115	
Zinc	ug/L	1000	981	98	85-115	

MATRIX SPIKE SAMPLE: 317121

Parameter	Units	7052784001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	51.3	103	70-130	
Iron	ug/L	1700	2000	4010	116	70-130	
Manganese	ug/L	245	250	496	100	70-130	
Zinc	ug/L	92.8	1000	1120	103	70-130	

MATRIX SPIKE SAMPLE: 317123

Parameter	Units	7052784002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	49.8	100	70-130	
Iron	ug/L	50.4	2000	1990	97	70-130	
Manganese	ug/L	<10.0	250	252	99	70-130	
Zinc	ug/L	20.8	1000	1010	99	70-130	

SAMPLE DUPLICATE: 317120

Parameter	Units	7052784001 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	1700	1540	10	
Manganese	ug/L	245	229	7	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

SAMPLE DUPLICATE: 317120

Parameter	Units	7052784001 Result	Dup Result	RPD	Qualifiers
Zinc	ug/L	92.8	87.7	6	

SAMPLE DUPLICATE: 317122

Parameter	Units	7052784002 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	50.4	49.5	2	
Manganese	ug/L	<10.0	<10.0		
Zinc	ug/L	20.8	20.1	4	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

QC Batch:	70390	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
Associated Lab Samples:	7052817001, 7052817003		

METHOD BLANK: 322616 Matrix: Water

Associated Lab Samples: 7052817001, 7052817003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	06/06/18 17:58	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	06/06/18 17:58	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	06/06/18 17:58	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	06/06/18 17:58	
1,1-Dichloroethane	ug/L	<1.0	1.0	06/06/18 17:58	
1,1-Dichloroethene	ug/L	<1.0	1.0	06/06/18 17:58	
1,1-Dichloropropene	ug/L	<1.0	1.0	06/06/18 17:58	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	06/06/18 17:58	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	06/06/18 17:58	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	06/06/18 17:58	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	06/06/18 17:58	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	06/06/18 17:58	
1,2-Dichloroethane	ug/L	<1.0	1.0	06/06/18 17:58	
1,2-Dichloropropane	ug/L	<1.0	1.0	06/06/18 17:58	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	06/06/18 17:58	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	06/06/18 17:58	
1,3-Dichloropropane	ug/L	<1.0	1.0	06/06/18 17:58	
1,4-Diethylbenzene	ug/L	<1.0	1.0	06/06/18 17:58	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	06/06/18 17:58	
2-Butanone (MEK)	ug/L	<5.0	5.0	06/06/18 17:58	
2-Chlorotoluene	ug/L	<1.0	1.0	06/06/18 17:58	
2-Hexanone	ug/L	<5.0	5.0	06/06/18 17:58	
4-Chlorotoluene	ug/L	<1.0	1.0	06/06/18 17:58	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	06/06/18 17:58	
Acetone	ug/L	<5.0	5.0	06/06/18 17:58	
Benzene	ug/L	<1.0	1.0	06/06/18 17:58	
Bromobenzene	ug/L	<1.0	1.0	06/06/18 17:58	
Bromochloromethane	ug/L	<1.0	1.0	06/06/18 17:58	
Bromodichloromethane	ug/L	<1.0	1.0	06/06/18 17:58	
Bromoform	ug/L	<1.0	1.0	06/06/18 17:58	
Bromomethane	ug/L	<1.0	1.0	06/06/18 17:58	
Carbon disulfide	ug/L	<1.0	1.0	06/06/18 17:58	
Carbon tetrachloride	ug/L	<1.0	1.0	06/06/18 17:58	
Chlorobenzene	ug/L	<1.0	1.0	06/06/18 17:58	
Chlorodifluoromethane	ug/L	<1.0	1.0	06/06/18 17:58	N3
Chloroethane	ug/L	<1.0	1.0	06/06/18 17:58	
Chloroform	ug/L	<1.0	1.0	06/06/18 17:58	
Chloromethane	ug/L	<1.0	1.0	06/06/18 17:58	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	06/06/18 17:58	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	06/06/18 17:58	
Dibromochloromethane	ug/L	<1.0	1.0	06/06/18 17:58	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

METHOD BLANK: 322616

Matrix: Water

Associated Lab Samples: 7052817001, 7052817003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	06/06/18 17:58	CL
Dichlorodifluoromethane	ug/L	<1.0	1.0	06/06/18 17:58	
Ethanol	ug/L	<250	250	06/06/18 17:58	
Ethylbenzene	ug/L	<1.0	1.0	06/06/18 17:58	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	06/06/18 17:58	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	06/06/18 17:58	
Methylene Chloride	ug/L	<1.0	1.0	06/06/18 17:58	
n-Butylbenzene	ug/L	<1.0	1.0	06/06/18 17:58	
n-Propylbenzene	ug/L	<1.0	1.0	06/06/18 17:58	
p-Isopropyltoluene	ug/L	<1.0	1.0	06/06/18 17:58	
sec-Butylbenzene	ug/L	<1.0	1.0	06/06/18 17:58	
Styrene	ug/L	<1.0	1.0	06/06/18 17:58	
tert-Butylbenzene	ug/L	<1.0	1.0	06/06/18 17:58	
Tetrachloroethene	ug/L	<1.0	1.0	06/06/18 17:58	
Toluene	ug/L	<1.0	1.0	06/06/18 17:58	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	06/06/18 17:58	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	06/06/18 17:58	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	06/06/18 17:58	
Trichloroethene	ug/L	<1.0	1.0	06/06/18 17:58	
Vinyl chloride	ug/L	<1.0	1.0	06/06/18 17:58	
Xylene (Total)	ug/L	<3.0	3.0	06/06/18 17:58	
1,2-Dichloroethane-d4 (S)	%	90	68-153	06/06/18 17:58	
4-Bromofluorobenzene (S)	%	99	79-124	06/06/18 17:58	
Toluene-d8 (S)	%	97	69-124	06/06/18 17:58	

LABORATORY CONTROL SAMPLE: 322617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.7	89	74-113	
1,1,1-Trichloroethane	ug/L	50	47.5	95	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	74-121	
1,1,2-Trichloroethane	ug/L	50	48.1	96	80-117	
1,1-Dichloroethane	ug/L	50	47.9	96	83-151	
1,1-Dichloroethene	ug/L	50	51.9	104	45-146	
1,1-Dichloropropene	ug/L	50	50.8	102	59-127	
1,2,3-Trichlorobenzene	ug/L	50	38.3	77	67-103	
1,2,3-Trichloropropane	ug/L	50	48.4	97	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	40.1	80	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	46.0	92	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	83-115	
1,2-Dichloroethane	ug/L	50	47.1	94	74-129	
1,2-Dichloropropane	ug/L	50	45.7	91	75-117	
1,3,5-Trimethylbenzene	ug/L	50	46.3	93	67-116	
1,3-Dichlorobenzene	ug/L	50	47.7	95	71-112	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

LABORATORY CONTROL SAMPLE: 322617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	48.0	96	74-112	
1,4-Diethylbenzene	ug/L	50	39.9	80	56-130	N3
2,2-Dichloropropane	ug/L	50	42.8	86	63-133	
2-Butanone (MEK)	ug/L	50	37.5	75	44-162	
2-Chlorotoluene	ug/L	50	48.1	96	74-101	
2-Hexanone	ug/L	50	43.2	86	32-183	
4-Chlorotoluene	ug/L	50	49.1	98	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	40.7	81	69-132	
Acetone	ug/L	50	40.1	80	23-188	
Benzene	ug/L	50	49.4	99	73-119	
Bromobenzene	ug/L	50	51.1	102	72-102	
Bromochloromethane	ug/L	50	51.5	103	81-116	
Bromodichloromethane	ug/L	50	47.0	94	78-117	
Bromoform	ug/L	50	42.9	86	65-122	
Bromomethane	ug/L	50	48.1	96	52-147	
Carbon disulfide	ug/L	50	47.7	95	41-144	
Carbon tetrachloride	ug/L	50	45.1	90	59-120	
Chlorobenzene	ug/L	50	49.2	98	75-113	
Chlorodifluoromethane	ug/L	50	46.6	93	43-140	N3
Chloroethane	ug/L	50	44.9	90	49-151	
Chloroform	ug/L	50	49.9	100	72-122	
Chloromethane	ug/L	50	39.5	79	46-144	
cis-1,2-Dichloroethene	ug/L	50	50.3	101	72-121	
cis-1,3-Dichloropropene	ug/L	50	45.2	90	78-116	
Dibromochloromethane	ug/L	50	45.3	91	70-120	
Dibromomethane	ug/L	50	48.3	97	75-125	
Dichlorodifluoromethane	ug/L	50	53.7	107	22-154	
Ethanol	ug/L	1250	959	77	10-151	CL
Ethylbenzene	ug/L	50	49.2	98	70-113	
Hexachloro-1,3-butadiene	ug/L	50	39.0	78	59-121	
Isopropylbenzene (Cumene)	ug/L	50	49.7	99	67-115	
Methylene Chloride	ug/L	50	51.9	104	61-142	
n-Butylbenzene	ug/L	50	39.4	79	73-107	
n-Propylbenzene	ug/L	50	47.2	94	68-116	
p-Isopropyltoluene	ug/L	50	41.6	83	73-101	
sec-Butylbenzene	ug/L	50	42.7	85	72-103	
Styrene	ug/L	50	47.9	96	72-118	
tert-Butylbenzene	ug/L	50	44.2	88	68-100	
Tetrachloroethene	ug/L	50	51.2	102	60-128	
Toluene	ug/L	50	49.6	99	72-119	
trans-1,2-Dichloroethene	ug/L	50	53.1	106	56-142	
trans-1,3-Dichloropropene	ug/L	50	43.2	86	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	42.6	85	71-121	
Trichloroethene	ug/L	50	52.9	106	69-117	
Vinyl chloride	ug/L	50	43.0	86	43-143	
Xylene (Total)	ug/L	150	147	98	71-109	
1,2-Dichloroethane-d4 (S)	%			87	68-153	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

LABORATORY CONTROL SAMPLE: 322617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			99	79-124	
Toluene-d8 (S)	%			97	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 323249 323250

Parameter	Units	7052517015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	43.1	44.5	86	89	74-113	3	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	46.8	49.2	94	98	65-118	5	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	45.9	46.7	92	93	74-121	2	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	47.1	47.4	94	95	80-117	1	
1,1-Dichloroethane	ug/L	<1.0	50	50	48.1	48.4	96	97	83-151	1	
1,1-Dichloroethene	ug/L	<1.0	50	50	51.3	51.6	103	103	45-146	1	
1,1-Dichloropropene	ug/L	<1.0	50	50	50.8	52.3	102	105	59-127	3	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	37.0	43.5	74	87	67-103	16	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	45.0	46.9	90	94	71-123	4	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	50	39.0	41.3	78	83	66-103	6	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	50	50	45.3	46.8	91	94	68-116	3	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	48.0	49.3	96	99	83-115	3	
1,2-Dichloroethane	ug/L	<1.0	50	50	45.4	46.4	91	93	74-129	2	
1,2-Dichloropropane	ug/L	<1.0	50	50	45.5	46.8	91	94	75-117	3	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	50	46.2	47.3	92	95	67-116	2	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	46.6	48.5	93	97	71-112	4	
1,3-Dichloropropane	ug/L	<1.0	50	50	46.3	47.7	93	95	74-112	3	
1,4-Diethylbenzene	ug/L	<1.0	50	50	39.8	41.9	80	84	56-130	5	N3
2,2-Dichloropropane	ug/L	<1.0	50	50	38.0	40.2	76	80	63-133	6	
2-Butanone (MEK)	ug/L	<5.0	50	50	34.7	34.9	69	70	44-162	1	
2-Chlorotoluene	ug/L	<1.0	50	50	47.2	48.9	94	98	74-101	4	
2-Hexanone	ug/L	<5.0	50	50	40.2	41.8	80	84	32-183	4	
4-Chlorotoluene	ug/L	<1.0	50	50	48.6	50.0	97	100	74-101	3	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	39.1	41.1	78	82	69-132	5	
Acetone	ug/L	<5.0	50	50	37.6	38.5	75	77	23-188	2	
Benzene	ug/L	<1.0	50	50	48.6	49.9	97	100	73-119	3	
Bromobenzene	ug/L	<1.0	50	50	49.6	51.3	99	103	72-102	3	M1
Bromochloromethane	ug/L	<1.0	50	50	50.2	50.6	100	101	81-116	1	
Bromodichloromethane	ug/L	<1.0	50	50	45.4	47.6	91	95	78-117	5	
Bromoform	ug/L	<1.0	50	50	40.0	42.8	80	86	65-122	7	
Bromomethane	ug/L	<1.0	50	50	41.0	42.8	82	86	52-147	4	
Carbon disulfide	ug/L	<1.0	50	50	46.1	46.9	92	94	41-144	2	
Carbon tetrachloride	ug/L	<1.0	50	50	44.4	47.4	89	95	59-120	7	
Chlorobenzene	ug/L	<1.0	50	50	48.0	49.2	96	98	75-113	2	
Chlorodifluoromethane	ug/L	<1.0	50	50	39.8	40.5	80	81	43-140	2	N3
Chloroethane	ug/L	<1.0	50	50	40.5	41.8	81	84	49-151	3	
Chloroform	ug/L	<1.0	50	50	49.0	49.9	98	100	72-122	2	
Chloromethane	ug/L	<1.0	50	50	32.4	33.1	65	66	46-144	2	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 323249 323250											
Parameter	Units	7052517015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	49.7	50.1	99	100	72-121	1	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	42.8	44.3	86	89	78-116	4	
Dibromochloromethane	ug/L	<1.0	50	50	44.0	45.4	88	91	70-120	3	
Dibromomethane	ug/L	<1.0	50	50	47.5	47.8	95	96	75-125	1	
Dichlorodifluoromethane	ug/L	<1.0	50	50	36.0	36.2	72	72	22-154	1	
Ethanol	ug/L	<250	1250	1250	960	801	77	64	10-151	18	CL
Ethylbenzene	ug/L	<1.0	50	50	49.4	50.2	99	100	70-113	2	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	40.0	46.1	80	92	59-121	14	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	49.0	50.5	98	101	67-115	3	
Methylene Chloride	ug/L	<1.0	50	50	49.5	48.5	99	97	61-142	2	
n-Butylbenzene	ug/L	<1.0	50	50	39.8	41.8	80	84	73-107	5	
n-Propylbenzene	ug/L	<1.0	50	50	47.2	48.4	94	97	68-116	2	
p-Isopropyltoluene	ug/L	<1.0	50	50	41.9	43.5	84	87	73-101	4	
sec-Butylbenzene	ug/L	<1.0	50	50	43.2	44.6	86	89	72-103	3	
Styrene	ug/L	<1.0	50	50	47.2	48.5	94	97	72-118	3	
tert-Butylbenzene	ug/L	<1.0	50	50	44.1	45.8	88	92	68-100	4	
Tetrachloroethene	ug/L	1.1	50	50	53.0	54.3	104	106	60-128	2	
Toluene	ug/L	<1.0	50	50	49.4	50.9	99	102	72-119	3	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	52.1	53.2	104	106	56-142	2	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	40.9	42.8	82	86	79-116	5	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	38.8	39.9	78	80	71-121	3	
Trichloroethene	ug/L	<1.0	50	50	53.3	54.6	107	109	69-117	2	
Vinyl chloride	ug/L	<1.0	50	50	37.6	38.0	75	76	43-143	1	
Xylene (Total)	ug/L	<3.0	150	150	145	148	97	99	71-109	2	
1,2-Dichloroethane-d4 (S)	%						89	97	68-153		
4-Bromofluorobenzene (S)	%						102	101	79-124		
Toluene-d8 (S)	%						97	97	69-124		

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

QC Batch:	70415	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
Associated Lab Samples:	7052817002		

METHOD BLANK: 323070 Matrix: Water

Associated Lab Samples: 7052817002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	06/07/18 07:31	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	06/07/18 07:31	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	06/07/18 07:31	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	06/07/18 07:31	
1,1-Dichloroethane	ug/L	<1.0	1.0	06/07/18 07:31	
1,1-Dichloroethene	ug/L	<1.0	1.0	06/07/18 07:31	
1,1-Dichloropropene	ug/L	<1.0	1.0	06/07/18 07:31	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	06/07/18 07:31	CL
1,2,3-Trichloropropane	ug/L	<1.0	1.0	06/07/18 07:31	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	06/07/18 07:31	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	06/07/18 07:31	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	06/07/18 07:31	
1,2-Dichloroethane	ug/L	<1.0	1.0	06/07/18 07:31	
1,2-Dichloropropane	ug/L	<1.0	1.0	06/07/18 07:31	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	06/07/18 07:31	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	06/07/18 07:31	
1,3-Dichloropropane	ug/L	<1.0	1.0	06/07/18 07:31	
1,4-Diethylbenzene	ug/L	<1.0	1.0	06/07/18 07:31	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	06/07/18 07:31	
2-Butanone (MEK)	ug/L	<5.0	5.0	06/07/18 07:31	
2-Chlorotoluene	ug/L	<1.0	1.0	06/07/18 07:31	
2-Hexanone	ug/L	<5.0	5.0	06/07/18 07:31	
4-Chlorotoluene	ug/L	<1.0	1.0	06/07/18 07:31	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	06/07/18 07:31	
Acetone	ug/L	<5.0	5.0	06/07/18 07:31	
Benzene	ug/L	<1.0	1.0	06/07/18 07:31	
Bromobenzene	ug/L	<1.0	1.0	06/07/18 07:31	
Bromochloromethane	ug/L	<1.0	1.0	06/07/18 07:31	
Bromodichloromethane	ug/L	<1.0	1.0	06/07/18 07:31	
Bromoform	ug/L	<1.0	1.0	06/07/18 07:31	
Bromomethane	ug/L	<1.0	1.0	06/07/18 07:31	
Carbon disulfide	ug/L	<1.0	1.0	06/07/18 07:31	
Carbon tetrachloride	ug/L	<1.0	1.0	06/07/18 07:31	
Chlorobenzene	ug/L	<1.0	1.0	06/07/18 07:31	
Chlorodifluoromethane	ug/L	<1.0	1.0	06/07/18 07:31	N3
Chloroethane	ug/L	<1.0	1.0	06/07/18 07:31	
Chloroform	ug/L	<1.0	1.0	06/07/18 07:31	
Chloromethane	ug/L	<1.0	1.0	06/07/18 07:31	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	06/07/18 07:31	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	06/07/18 07:31	
Dibromochloromethane	ug/L	<1.0	1.0	06/07/18 07:31	

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29
Pace Project No.: 7052817

METHOD BLANK: 323070

Matrix: Water

Associated Lab Samples: 7052817002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	06/07/18 07:31	CL
Dichlorodifluoromethane	ug/L	<1.0	1.0	06/07/18 07:31	
Ethanol	ug/L	<250	250	06/07/18 07:31	
Ethylbenzene	ug/L	<1.0	1.0	06/07/18 07:31	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	06/07/18 07:31	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	06/07/18 07:31	
Methylene Chloride	ug/L	<1.0	1.0	06/07/18 07:31	
n-Butylbenzene	ug/L	<1.0	1.0	06/07/18 07:31	
n-Propylbenzene	ug/L	<1.0	1.0	06/07/18 07:31	
p-Isopropyltoluene	ug/L	<1.0	1.0	06/07/18 07:31	
sec-Butylbenzene	ug/L	<1.0	1.0	06/07/18 07:31	
Styrene	ug/L	<1.0	1.0	06/07/18 07:31	
tert-Butylbenzene	ug/L	<1.0	1.0	06/07/18 07:31	
Tetrachloroethene	ug/L	<1.0	1.0	06/07/18 07:31	
Toluene	ug/L	<1.0	1.0	06/07/18 07:31	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	06/07/18 07:31	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	06/07/18 07:31	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	06/07/18 07:31	
Trichloroethene	ug/L	<1.0	1.0	06/07/18 07:31	
Vinyl chloride	ug/L	<1.0	1.0	06/07/18 07:31	
Xylene (Total)	ug/L	<3.0	3.0	06/07/18 07:31	
1,2-Dichloroethane-d4 (S)	%	91	68-153	06/07/18 07:31	
4-Bromofluorobenzene (S)	%	100	79-124	06/07/18 07:31	
Toluene-d8 (S)	%	97	69-124	06/07/18 07:31	

LABORATORY CONTROL SAMPLE: 323071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	43.6	87	74-113	CL
1,1,1-Trichloroethane	ug/L	50	45.0	90	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	44.3	89	74-121	
1,1,2-Trichloroethane	ug/L	50	45.8	92	80-117	
1,1-Dichloroethane	ug/L	50	44.9	90	83-151	
1,1-Dichloroethene	ug/L	50	49.1	98	45-146	
1,1-Dichloropropene	ug/L	50	47.8	96	59-127	
1,2,3-Trichlorobenzene	ug/L	50	36.6	73	67-103	
1,2,3-Trichloropropane	ug/L	50	43.7	87	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	38.3	77	66-103	
1,2,4-Trimethylbenzene	ug/L	50	43.7	87	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	47.8	96	83-115	
1,2-Dichloroethane	ug/L	50	44.6	89	74-129	
1,2-Dichloropropane	ug/L	50	44.6	89	75-117	
1,3,5-Trimethylbenzene	ug/L	50	44.0	88	67-116	
1,3-Dichlorobenzene	ug/L	50	45.6	91	71-112	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

LABORATORY CONTROL SAMPLE: 323071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	46.0	92	74-112	
1,4-Diethylbenzene	ug/L	50	38.6	77	56-130	N3
2,2-Dichloropropane	ug/L	50	41.8	84	63-133	
2-Butanone (MEK)	ug/L	50	33.3	67	44-162	
2-Chlorotoluene	ug/L	50	45.6	91	74-101	
2-Hexanone	ug/L	50	38.5	77	32-183	
4-Chlorotoluene	ug/L	50	46.9	94	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	38.0	76	69-132	
Acetone	ug/L	50	35.4	71	23-188	
Benzene	ug/L	50	46.6	93	73-119	
Bromobenzene	ug/L	50	48.8	98	72-102	
Bromochloromethane	ug/L	50	49.1	98	81-116	
Bromodichloromethane	ug/L	50	45.9	92	78-117	
Bromoform	ug/L	50	42.4	85	65-122	
Bromomethane	ug/L	50	44.1	88	52-147	
Carbon disulfide	ug/L	50	44.6	89	41-144	
Carbon tetrachloride	ug/L	50	43.7	87	59-120	
Chlorobenzene	ug/L	50	46.7	93	75-113	
Chlorodifluoromethane	ug/L	50	42.7	85	43-140	N3
Chloroethane	ug/L	50	41.5	83	49-151	
Chloroform	ug/L	50	46.8	94	72-122	
Chloromethane	ug/L	50	36.4	73	46-144	
cis-1,2-Dichloroethene	ug/L	50	47.6	95	72-121	
cis-1,3-Dichloropropene	ug/L	50	44.4	89	78-116	
Dibromochloromethane	ug/L	50	44.5	89	70-120	
Dibromomethane	ug/L	50	46.7	93	75-125	
Dichlorodifluoromethane	ug/L	50	46.1	92	22-154	
Ethanol	ug/L	1250	657	53	10-151	CL
Ethylbenzene	ug/L	50	46.5	93	70-113	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	59-121	
Isopropylbenzene (Cumene)	ug/L	50	46.1	92	67-115	
Methylene Chloride	ug/L	50	50.3	101	61-142	
n-Butylbenzene	ug/L	50	38.3	77	73-107	
n-Propylbenzene	ug/L	50	44.2	88	68-116	
p-Isopropyltoluene	ug/L	50	40.3	81	73-101	
sec-Butylbenzene	ug/L	50	40.9	82	72-103	
Styrene	ug/L	50	46.1	92	72-118	
tert-Butylbenzene	ug/L	50	41.9	84	68-100	
Tetrachloroethene	ug/L	50	49.0	98	60-128	
Toluene	ug/L	50	47.3	95	72-119	
trans-1,2-Dichloroethene	ug/L	50	50.2	100	56-142	
trans-1,3-Dichloropropene	ug/L	50	42.8	86	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	38.8	78	71-121	
Trichloroethene	ug/L	50	50.2	100	69-117	
Vinyl chloride	ug/L	50	39.5	79	43-143	
Xylene (Total)	ug/L	150	139	93	71-109	
1,2-Dichloroethane-d4 (S)	%			89	68-153	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

LABORATORY CONTROL SAMPLE: 323071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			102	79-124	
Toluene-d8 (S)	%			98	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 323274

323275

Parameter	Units	7053289006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	44.2	45.3	88	91	74-113	3	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	50.0	51.2	100	102	65-118	2	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	47.3	47.2	95	94	74-121	0	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	48.5	48.9	97	98	80-117	1	
1,1-Dichloroethane	ug/L	<1.0	50	50	51.8	52.0	104	104	83-151	0	
1,1-Dichloroethene	ug/L	<1.0	50	50	57.2	56.9	114	114	45-146	1	
1,1-Dichloropropene	ug/L	<1.0	50	50	54.4	55.5	109	111	59-127	2	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	40.2	46.3	80	93	67-103	14	CL
1,2,3-Trichloropropane	ug/L	<1.0	50	50	45.9	46.5	92	93	71-123	1	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	50	40.4	42.1	81	84	66-103	4	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	50	50	46.4	47.6	93	95	68-116	2	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	49.1	50.0	98	100	83-115	2	
1,2-Dichloroethane	ug/L	<1.0	50	50	49.0	48.7	98	97	74-129	1	
1,2-Dichloropropane	ug/L	<1.0	50	50	48.2	49.3	96	99	75-117	2	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	50	46.7	47.9	93	96	67-116	2	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	47.7	48.7	95	97	71-112	2	
1,3-Dichloropropane	ug/L	<1.0	50	50	47.8	48.2	96	96	74-112	1	
1,4-Diethylbenzene	ug/L	<1.0	50	50	40.9	42.9	82	86	56-130	5	N3
2,2-Dichloropropane	ug/L	<1.0	50	50	47.3	48.6	95	97	63-133	3	
2-Butanone (MEK)	ug/L	<5.0	50	50	39.0	38.8	78	78	44-162	0	
2-Chlorotoluene	ug/L	<1.0	50	50	48.6	49.6	97	99	74-101	2	
2-Hexanone	ug/L	<5.0	50	50	42.8	43.5	86	87	32-183	1	
4-Chlorotoluene	ug/L	<1.0	50	50	49.7	51.1	99	102	74-101	3	M1
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	42.3	42.8	85	86	69-132	1	
Acetone	ug/L	<5.0	50	50	40.1	39.3	80	79	23-188	2	
Benzene	ug/L	<1.0	50	50	51.3	51.8	103	104	73-119	1	
Bromobenzene	ug/L	<1.0	50	50	50.6	51.9	101	104	72-102	3	M1
Bromochloromethane	ug/L	<1.0	50	50	52.6	52.0	105	104	81-116	1	
Bromodichloromethane	ug/L	<1.0	50	50	48.1	49.5	96	99	78-117	3	
Bromoform	ug/L	<1.0	50	50	41.3	43.2	83	86	65-122	5	
Bromomethane	ug/L	<1.0	50	50	47.3	48.7	95	97	52-147	3	
Carbon disulfide	ug/L	<1.0	50	50	52.1	51.5	104	103	41-144	1	
Carbon tetrachloride	ug/L	<1.0	50	50	48.0	49.7	96	99	59-120	4	
Chlorobenzene	ug/L	<1.0	50	50	48.7	49.8	97	100	75-113	2	
Chlorodifluoromethane	ug/L	<1.0	50	50	49.7	49.3	99	99	43-140	1	N3
Chloroethane	ug/L	<1.0	50	50	48.6	47.2	97	94	49-151	3	
Chloroform	ug/L	<1.0	50	50	51.5	52.2	103	104	72-122	1	
Chloromethane	ug/L	<1.0	50	50	42.3	42.5	85	85	46-144	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 323274 323275											
Parameter	Units	7053289006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	52.3	52.2	105	104	72-121	0	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	46.8	48.1	94	96	78-116	3	
Dibromochloromethane	ug/L	<1.0	50	50	44.3	45.8	89	92	70-120	3	
Dibromomethane	ug/L	<1.0	50	50	48.5	49.1	97	98	75-125	1	
Dichlorodifluoromethane	ug/L	<1.0	50	50	50.3	50.3	101	101	22-154	0	
Ethanol	ug/L	<250	1250	1250	991	843	79	67	10-151	16	CL
Ethylbenzene	ug/L	<1.0	50	50	49.9	50.8	100	102	70-113	2	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	41.4	48.6	83	97	59-121	16	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	50.1	50.9	100	102	67-115	2	
Methylene Chloride	ug/L	<1.0	50	50	54.4	54.3	109	109	61-142	0	
n-Butylbenzene	ug/L	<1.0	50	50	41.1	42.7	82	85	73-107	4	
n-Propylbenzene	ug/L	<1.0	50	50	47.9	48.8	96	98	68-116	2	
p-Isopropyltoluene	ug/L	<1.0	50	50	42.5	44.2	85	88	73-101	4	
sec-Butylbenzene	ug/L	<1.0	50	50	43.8	44.9	88	90	72-103	3	
Styrene	ug/L	<1.0	50	50	47.9	48.8	96	98	72-118	2	
tert-Butylbenzene	ug/L	<1.0	50	50	44.7	45.9	89	92	68-100	3	
Tetrachloroethene	ug/L	<1.0	50	50	52.9	53.9	106	108	60-128	2	
Toluene	ug/L	<1.0	50	50	51.3	52.3	103	105	72-119	2	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	56.6	56.1	113	112	56-142	1	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	44.1	45.5	88	91	79-116	3	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	42.4	43.9	85	88	71-121	3	
Trichloroethene	ug/L	<1.0	50	50	55.6	56.4	111	113	69-117	1	
Vinyl chloride	ug/L	<1.0	50	50	46.6	45.8	93	92	43-143	2	
Xylene (Total)	ug/L	<3.0	150	150	147	149	98	100	71-109	1	
1,2-Dichloroethane-d4 (S)	%						92	91	68-153		
4-Bromofluorobenzene (S)	%						102	102	79-124		
Toluene-d8 (S)	%						96	97	69-124		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

QC Batch:	69604	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	7052817001, 7052817002, 7052817003		

METHOD BLANK: 318941 Matrix: Water

Associated Lab Samples: 7052817001, 7052817002, 7052817003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	05/31/18 14:04	

LABORATORY CONTROL SAMPLE: 318942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	516	103	85-115	

MATRIX SPIKE SAMPLE: 318944

Parameter	Units	7052696008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	184	300	476	97	75-125	

MATRIX SPIKE SAMPLE: 318946

Parameter	Units	7052517015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	161	300	434	91	75-125	

SAMPLE DUPLICATE: 318943

Parameter	Units	7052696008 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	184	174	6	

SAMPLE DUPLICATE: 318945

Parameter	Units	7052517015 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	161	139	15	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|--|
| CL | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| N3 | Accreditation is not offered by the relevant laboratory accrediting body for this parameter. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FAIR MONTHLY 5/29

Pace Project No.: 7052817

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7052817001	INFLUENT #1	EPA 200.7	69197	EPA 200.7	69211
7052817002	INFLUENT #2	EPA 200.7	69197	EPA 200.7	69211
7052817003	EFFLUENT #1	EPA 200.7	69197	EPA 200.7	69211
7052817001	INFLUENT #1	EPA 200.7	69098		
7052817002	INFLUENT #2	EPA 200.7	69098		
7052817003	EFFLUENT #1	EPA 200.7	69098		
7052817001	INFLUENT #1	EPA 8260C/5030C	70390		
7052817002	INFLUENT #2	EPA 8260C/5030C	70415		
7052817003	EFFLUENT #1	EPA 8260C/5030C	70390		
7052817001	INFLUENT #1	SM22 2540C	69604		
7052817002	INFLUENT #2	SM22 2540C	69604		
7052817003	EFFLUENT #1	SM22 2540C	69604		

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CHAIN-OF-CUSTODY / Analytical Request Document

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



WO#: 7052817

Section A Required Client Information: Company: FAIRCHILD CORP Address: 136 GAZZA BLVD FARMINGDALE, NY 11735 Email To: paul@wvlab.com Phone: 631 777-7310 Requested Due Date/TAT:		Section B Required Project Information: Report To: PAUL LANZILLOTTA Copy To: Purchase Order No.: Project Name: FAIR MONTHLY 5/29/18 Project Number:		Section C Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: JOHN STANTON Pace Profile #:	
Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other		Matrix Codes DW WT WW P SL OL WP AR TS OT		NPDES ☐ GROUND WATER ☐ DRINKING WATER UST ☐ RCRA ☐ OTHER ☐	
Site Location STATE:		NPDES ☐ GROUND WATER ☐ DRINKING WATER UST ☐ RCRA ☐ OTHER ☐		Site Location STATE:	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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		Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other								Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Paul Lanzilotta	5/25/18	12:00	Paul Lanzilotta	5/25/18	12:00	Y N Y

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: PAUL LANZILLOTTA SIGNATURE of SAMPLER: <i>Paul Lanzilotta</i>		DATE Signed (MM/DD/YY): 5/25/18	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
--	--	--	------------	-----------------------	-----------------------------	----------------------

ORIGINAL



Sample Condition Upon Receipt

Client Name:

Fairchild

Project

WO#: 7052817

PM: JDS Due Date: 06/06/18

CLIENT: FAIR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: 0.0

Cooler Temperature (°C): 11.0

Cooler Temperature Corrected (°C): 11.0

Temperature Blank Present: ☐ Yes ☒ No

Type of Ice: Wet Blue None

☒ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil ☒ N/A, water sample)

Date and Initials of person examining contents: 5/25/18 JPP

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	
Containers Intact:	☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests	☒ Yes ☐ No ☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL		
All containers needing preservation have been checked	☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # <u>HCG 31385</u>		Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis		Initial when completed: Lot # of added preservative: Date/Time preservative added
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #		
Residual chlorine strips Lot #		
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

July 11, 2018

James
Wire to Water Electrical Contractors
136 Gazza Blvd
Farmingdale, NY 117351420

RE: Project: MONTHLY-7/6
Pace Project No.: 7057324

Dear James:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Paul Lanzillotta, Wire to Water Electrical Contractors
Caroline Mendoza, Fairchild Corporation
Stuart Skopicki, Wire to Water Electrical Contractors



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MONTHLY-7/6

Pace Project No.: 7057324

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-7/6

Pace Project No.: 7057324

Sample: INFLUENT #1		Lab ID: 7057324001		Collected: 07/06/18 10:45		Received: 07/06/18 11:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	07/09/18 09:37	07/09/18 22:33	7440-41-7		
Iron	818	ug/L	20.0	1	07/09/18 09:37	07/09/18 22:33	7439-89-6		
Manganese	76.7	ug/L	10.0	1	07/09/18 09:37	07/09/18 22:33	7439-96-5		
Zinc	66.1	ug/L	20.0	1	07/09/18 09:37	07/09/18 22:33	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		07/10/18 12:51	7440-41-7		
Iron, Dissolved	776	ug/L	20.0	1		07/10/18 12:51	7439-89-6		
Manganese, Dissolved	76.4	ug/L	10.0	1		07/10/18 12:51	7439-96-5		
Zinc, Dissolved	61.5	ug/L	20.0	1		07/10/18 12:51	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/10/18 14:50	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		07/10/18 14:50	74-87-3		
Vinyl chloride	20.7	ug/L	1.0	1		07/10/18 14:50	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		07/10/18 14:50	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		07/10/18 14:50	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		07/10/18 14:50	75-09-2		
1,1-Dichloroethene	6.6	ug/L	1.0	1		07/10/18 14:50	75-35-4		
trans-1,2-Dichloroethene	1.3	ug/L	1.0	1		07/10/18 14:50	156-60-5		
1,1-Dichloroethane	14.1	ug/L	1.0	1		07/10/18 14:50	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:50	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/10/18 14:50	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		07/10/18 14:50	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		07/10/18 14:50	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:50	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/10/18 14:50	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		07/10/18 14:50	563-58-6		
Benzene	1.9	ug/L	1.0	1		07/10/18 14:50	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:50	107-06-2		
Trichloroethene	102	ug/L	1.0	1		07/10/18 14:50	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:50	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/10/18 14:50	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		07/10/18 14:50	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/10/18 14:50	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		07/10/18 14:50	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/10/18 14:50	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:50	79-00-5		
Tetrachloroethene	465	ug/L	10.0	10		07/10/18 15:15	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:50	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/10/18 14:50	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		07/10/18 14:50	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/10/18 14:50	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		07/10/18 14:50	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-7/6

Pace Project No.: 7057324

Sample: INFLUENT #1		Lab ID: 7057324001	Collected: 07/06/18 10:45	Received: 07/06/18 11:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		07/10/18 14:50	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		07/10/18 14:50	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		07/10/18 14:50	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/10/18 14:50	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:50	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		07/10/18 14:50	95-49-8	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		07/10/18 14:50	106-43-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	98-06-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		07/10/18 14:50	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		07/10/18 14:50	87-68-3	CL,IL,L2
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	87-61-6	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		07/10/18 14:50	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		07/10/18 14:50	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		07/10/18 14:50	75-15-0	
Acetone	<5.0	ug/L	5.0	1		07/10/18 14:50	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		07/10/18 14:50	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		07/10/18 14:50	110-57-6	
Ethanol	<250	ug/L	250	1		07/10/18 14:50	64-17-5	IL
Chlorodifluoromethane	<1.0	ug/L	1.0	1		07/10/18 14:50	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:50	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	68-153	1		07/10/18 14:50	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-124	1		07/10/18 14:50	460-00-4	
Toluene-d8 (S)	100	%	69-124	1		07/10/18 14:50	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	102	mg/L	20.0	1		07/10/18 14:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-7/6

Pace Project No.: 7057324

Sample: INFLUENT #2		Lab ID: 7057324002		Collected: 07/06/18 11:00		Received: 07/06/18 11:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	07/09/18 09:37	07/09/18 22:38	7440-41-7		
Iron	772	ug/L	20.0	1	07/09/18 09:37	07/09/18 22:38	7439-89-6		
Manganese	77.3	ug/L	10.0	1	07/09/18 09:37	07/09/18 22:38	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	07/09/18 09:37	07/09/18 22:38	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		07/10/18 12:55	7440-41-7		
Iron, Dissolved	386	ug/L	20.0	1		07/10/18 12:55	7439-89-6		
Manganese, Dissolved	74.6	ug/L	10.0	1		07/10/18 12:55	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		07/10/18 12:55	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/10/18 14:29	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		07/10/18 14:29	74-87-3		
Vinyl chloride	<1.0	ug/L	1.0	1		07/10/18 14:29	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		07/10/18 14:29	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		07/10/18 14:29	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		07/10/18 14:29	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/10/18 14:29	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/10/18 14:29	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:29	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:29	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/10/18 14:29	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		07/10/18 14:29	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		07/10/18 14:29	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:29	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/10/18 14:29	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		07/10/18 14:29	563-58-6		
Benzene	<1.0	ug/L	1.0	1		07/10/18 14:29	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:29	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		07/10/18 14:29	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:29	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/10/18 14:29	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		07/10/18 14:29	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/10/18 14:29	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		07/10/18 14:29	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/10/18 14:29	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:29	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/10/18 14:29	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:29	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/10/18 14:29	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		07/10/18 14:29	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/10/18 14:29	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		07/10/18 14:29	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-7/6

Pace Project No.: 7057324

Sample: INFLUENT #2		Lab ID: 7057324002	Collected: 07/06/18 11:00	Received: 07/06/18 11:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		07/10/18 14:29	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		07/10/18 14:29	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		07/10/18 14:29	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/10/18 14:29	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:29	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		07/10/18 14:29	95-49-8	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		07/10/18 14:29	106-43-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	98-06-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		07/10/18 14:29	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		07/10/18 14:29	87-68-3	CL,IL,L2
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	87-61-6	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		07/10/18 14:29	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		07/10/18 14:29	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		07/10/18 14:29	75-15-0	
Acetone	<5.0	ug/L	5.0	1		07/10/18 14:29	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		07/10/18 14:29	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		07/10/18 14:29	110-57-6	
Ethanol	<250	ug/L	250	1		07/10/18 14:29	64-17-5	IL
Chlorodifluoromethane	<1.0	ug/L	1.0	1		07/10/18 14:29	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:29	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		07/10/18 14:29	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		07/10/18 14:29	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		07/10/18 14:29	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	98.0	mg/L	20.0	1		07/10/18 14:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-7/6

Pace Project No.: 7057324

Sample: EFFLUENT #1		Lab ID: 7057324003		Collected: 07/06/18 11:15		Received: 07/06/18 11:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	07/09/18 09:37	07/09/18 22:44	7440-41-7		
Iron	766	ug/L	20.0	1	07/09/18 09:37	07/09/18 22:44	7439-89-6		
Manganese	75.4	ug/L	10.0	1	07/09/18 09:37	07/09/18 22:44	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	07/09/18 09:37	07/09/18 22:44	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		07/10/18 12:56	7440-41-7		
Iron, Dissolved	71.9	ug/L	20.0	1		07/10/18 12:56	7439-89-6		
Manganese, Dissolved	73.6	ug/L	10.0	1		07/10/18 12:56	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		07/10/18 12:56	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		07/10/18 14:08	75-71-8	CL	
Chloromethane	<1.0	ug/L	1.0	1		07/10/18 14:08	74-87-3		
Vinyl chloride	<1.0	ug/L	1.0	1		07/10/18 14:08	75-01-4		
Chloroethane	<1.0	ug/L	1.0	1		07/10/18 14:08	75-00-3		
Bromomethane	<1.0	ug/L	1.0	1		07/10/18 14:08	74-83-9		
Methylene Chloride	<1.0	ug/L	1.0	1		07/10/18 14:08	75-09-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/10/18 14:08	75-35-4		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/10/18 14:08	156-60-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:08	75-34-3		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:08	594-20-7		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		07/10/18 14:08	156-59-2		
Chloroform	<1.0	ug/L	1.0	1		07/10/18 14:08	67-66-3		
Bromochloromethane	<1.0	ug/L	1.0	1		07/10/18 14:08	74-97-5		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:08	71-55-6		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/10/18 14:08	56-23-5		
1,1-Dichloropropene	<1.0	ug/L	1.0	1		07/10/18 14:08	563-58-6		
Benzene	<1.0	ug/L	1.0	1		07/10/18 14:08	71-43-2		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:08	107-06-2		
Trichloroethene	<1.0	ug/L	1.0	1		07/10/18 14:08	79-01-6		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:08	78-87-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/10/18 14:08	75-27-4		
Dibromomethane	<1.0	ug/L	1.0	1		07/10/18 14:08	74-95-3		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/10/18 14:08	10061-02-6		
Toluene	<1.0	ug/L	1.0	1		07/10/18 14:08	108-88-3		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/10/18 14:08	10061-01-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/10/18 14:08	79-00-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/10/18 14:08	127-18-4		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:08	142-28-9		
Dibromochloromethane	<1.0	ug/L	1.0	1		07/10/18 14:08	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		07/10/18 14:08	106-93-4		
Chlorobenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	108-90-7		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/10/18 14:08	630-20-6		
Ethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	100-41-4		
Xylene (Total)	<3.0	ug/L	3.0	1		07/10/18 14:08	1330-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-7/6

Pace Project No.: 7057324

Sample: EFFLUENT #1		Lab ID: 7057324003	Collected: 07/06/18 11:15	Received: 07/06/18 11:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
Styrene	<1.0	ug/L	1.0	1		07/10/18 14:08	100-42-5	
Bromoform	<1.0	ug/L	1.0	1		07/10/18 14:08	75-25-2	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		07/10/18 14:08	98-82-8	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/10/18 14:08	79-34-5	
Bromobenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	108-86-1	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		07/10/18 14:08	96-18-4	
n-Propylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	103-65-1	
2-Chlorotoluene	<1.0	ug/L	1.0	1		07/10/18 14:08	95-49-8	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	108-67-8	
4-Chlorotoluene	<1.0	ug/L	1.0	1		07/10/18 14:08	106-43-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	95-63-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	98-06-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		07/10/18 14:08	99-87-6	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	541-73-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	104-51-8	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		07/10/18 14:08	87-68-3	CL,IL,L2
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	87-61-6	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		07/10/18 14:08	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		07/10/18 14:08	591-78-6	
Carbon disulfide	<1.0	ug/L	1.0	1		07/10/18 14:08	75-15-0	
Acetone	<5.0	ug/L	5.0	1		07/10/18 14:08	67-64-1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		07/10/18 14:08	108-10-1	
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		07/10/18 14:08	110-57-6	
Ethanol	<250	ug/L	250	1		07/10/18 14:08	64-17-5	IL
Chlorodifluoromethane	<1.0	ug/L	1.0	1		07/10/18 14:08	75-45-6	N3
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	105-05-5	N3
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		07/10/18 14:08	95-93-2	N3
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	68-153	1		07/10/18 14:08	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		07/10/18 14:08	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		07/10/18 14:08	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	80.0	mg/L	20.0	1		07/10/18 14:55		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-7/6

Pace Project No.: 7057324

QC Batch:	74459	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	7057324001, 7057324002, 7057324003		

METHOD BLANK: 342172 Matrix: Water

Associated Lab Samples: 7057324001, 7057324002, 7057324003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	5.0	07/10/18 12:48	
Iron, Dissolved	ug/L	<20.0	20.0	07/10/18 12:48	
Manganese, Dissolved	ug/L	<10.0	10.0	07/10/18 12:48	
Zinc, Dissolved	ug/L	<20.0	20.0	07/10/18 12:48	

LABORATORY CONTROL SAMPLE: 342173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	50	49.0	98	85-115	
Iron, Dissolved	ug/L	2000	1940	97	85-115	
Manganese, Dissolved	ug/L	250	241	96	85-115	
Zinc, Dissolved	ug/L	1000	981	98	85-115	

MATRIX SPIKE SAMPLE: 342176

Parameter	Units	7057324001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	50	51.7	103	70-130	
Iron, Dissolved	ug/L	776	2000	2800	101	70-130	
Manganese, Dissolved	ug/L	76.4	250	333	103	70-130	
Zinc, Dissolved	ug/L	61.5	1000	1120	106	70-130	

SAMPLE DUPLICATE: 342175

Parameter	Units	7057324001 Result	Dup Result	RPD	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	<5.0		
Iron, Dissolved	ug/L	776	774	0	
Manganese, Dissolved	ug/L	76.4	75.9	1	
Zinc, Dissolved	ug/L	61.5	61.8	0	

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QUALITY CONTROL DATA

Project: MONTHLY-7/6

Pace Project No.: 7057324

QC Batch: 74321 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7057324001, 7057324002, 7057324003

METHOD BLANK: 341541 Matrix: Water

Associated Lab Samples: 7057324001, 7057324002, 7057324003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium	ug/L	<5.0	5.0	07/09/18 20:53	
Iron	ug/L	<20.0	20.0	07/09/18 20:53	
Manganese	ug/L	<10.0	10.0	07/09/18 20:53	
Zinc	ug/L	<20.0	20.0	07/09/18 20:53	

LABORATORY CONTROL SAMPLE: 341542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	50	50.5	101	85-115	
Iron	ug/L	2000	2040	102	85-115	
Manganese	ug/L	250	253	101	85-115	
Zinc	ug/L	1000	1020	102	85-115	

MATRIX SPIKE SAMPLE: 341544

Parameter	Units	7057026001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	51.5	103	70-130	
Iron	ug/L	<20.0	2000	2090	105	70-130	
Manganese	ug/L	<10.0	250	257	103	70-130	
Zinc	ug/L	<20.0	1000	1060	105	70-130	

MATRIX SPIKE SAMPLE: 341546

Parameter	Units	7057026002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	50.8	102	70-130	
Iron	ug/L	27.1	2000	2150	106	70-130	
Manganese	ug/L	<10.0	250	259	102	70-130	
Zinc	ug/L	23.7	1000	1050	103	70-130	

SAMPLE DUPLICATE: 341543

Parameter	Units	7057026001 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	<20.0	<20.0		
Manganese	ug/L	<10.0	<10.0		

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QUALITY CONTROL DATA

Project: MONTHLY-7/6

Pace Project No.: 7057324

SAMPLE DUPLICATE: 341543

Parameter	Units	7057026001 Result	Dup Result	RPD	Qualifiers
Zinc	ug/L	<20.0	<20.0		

SAMPLE DUPLICATE: 341545

Parameter	Units	7057026002 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	27.1	<20.0		
Manganese	ug/L	<10.0	<10.0		
Zinc	ug/L	23.7	23.4	1	

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QUALITY CONTROL DATA

Project: MONTHLY-7/6

Pace Project No.: 7057324

QC Batch:	74666	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
Associated Lab Samples:	7057324001, 7057324002, 7057324003		

METHOD BLANK: 343084 Matrix: Water

Associated Lab Samples: 7057324001, 7057324002, 7057324003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	07/10/18 12:20	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	07/10/18 12:20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	07/10/18 12:20	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	07/10/18 12:20	
1,1-Dichloroethane	ug/L	<1.0	1.0	07/10/18 12:20	
1,1-Dichloroethene	ug/L	<1.0	1.0	07/10/18 12:20	
1,1-Dichloropropene	ug/L	<1.0	1.0	07/10/18 12:20	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	07/10/18 12:20	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	07/10/18 12:20	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	07/10/18 12:20	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	07/10/18 12:20	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	07/10/18 12:20	
1,2-Dichloroethane	ug/L	<1.0	1.0	07/10/18 12:20	
1,2-Dichloropropane	ug/L	<1.0	1.0	07/10/18 12:20	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	07/10/18 12:20	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	07/10/18 12:20	
1,3-Dichloropropane	ug/L	<1.0	1.0	07/10/18 12:20	
1,4-Diethylbenzene	ug/L	<1.0	1.0	07/10/18 12:20	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	07/10/18 12:20	
2-Butanone (MEK)	ug/L	<5.0	5.0	07/10/18 12:20	
2-Chlorotoluene	ug/L	<1.0	1.0	07/10/18 12:20	
2-Hexanone	ug/L	<5.0	5.0	07/10/18 12:20	
4-Chlorotoluene	ug/L	<1.0	1.0	07/10/18 12:20	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	07/10/18 12:20	
Acetone	ug/L	<5.0	5.0	07/10/18 12:20	
Benzene	ug/L	<1.0	1.0	07/10/18 12:20	
Bromobenzene	ug/L	<1.0	1.0	07/10/18 12:20	
Bromochloromethane	ug/L	<1.0	1.0	07/10/18 12:20	
Bromodichloromethane	ug/L	<1.0	1.0	07/10/18 12:20	
Bromoform	ug/L	<1.0	1.0	07/10/18 12:20	
Bromomethane	ug/L	<1.0	1.0	07/10/18 12:20	
Carbon disulfide	ug/L	<1.0	1.0	07/10/18 12:20	
Carbon tetrachloride	ug/L	<1.0	1.0	07/10/18 12:20	
Chlorobenzene	ug/L	<1.0	1.0	07/10/18 12:20	
Chlorodifluoromethane	ug/L	<1.0	1.0	07/10/18 12:20	N3
Chloroethane	ug/L	<1.0	1.0	07/10/18 12:20	
Chloroform	ug/L	<1.0	1.0	07/10/18 12:20	
Chloromethane	ug/L	<1.0	1.0	07/10/18 12:20	CL
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	07/10/18 12:20	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	07/10/18 12:20	
Dibromochloromethane	ug/L	<1.0	1.0	07/10/18 12:20	

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QUALITY CONTROL DATA

Project: MONTHLY-7/6

Pace Project No.: 7057324

METHOD BLANK: 343084

Matrix: Water

Associated Lab Samples: 7057324001, 7057324002, 7057324003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	07/10/18 12:20	
Dichlorodifluoromethane	ug/L	<1.0	1.0	07/10/18 12:20	
Ethanol	ug/L	<250	250	07/10/18 12:20	IL
Ethylbenzene	ug/L	<1.0	1.0	07/10/18 12:20	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	07/10/18 12:20	CL,IL
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	07/10/18 12:20	
Methylene Chloride	ug/L	<1.0	1.0	07/10/18 12:20	
n-Butylbenzene	ug/L	<1.0	1.0	07/10/18 12:20	
n-Propylbenzene	ug/L	<1.0	1.0	07/10/18 12:20	
p-Isopropyltoluene	ug/L	<1.0	1.0	07/10/18 12:20	
sec-Butylbenzene	ug/L	<1.0	1.0	07/10/18 12:20	
Styrene	ug/L	<1.0	1.0	07/10/18 12:20	
tert-Butylbenzene	ug/L	<1.0	1.0	07/10/18 12:20	
Tetrachloroethene	ug/L	<1.0	1.0	07/10/18 12:20	
Toluene	ug/L	<1.0	1.0	07/10/18 12:20	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	07/10/18 12:20	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	07/10/18 12:20	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	07/10/18 12:20	
Trichloroethene	ug/L	<1.0	1.0	07/10/18 12:20	
Vinyl chloride	ug/L	<1.0	1.0	07/10/18 12:20	
Xylene (Total)	ug/L	<3.0	3.0	07/10/18 12:20	
1,2-Dichloroethane-d4 (S)	%	94	68-153	07/10/18 12:20	
4-Bromofluorobenzene (S)	%	98	79-124	07/10/18 12:20	
Toluene-d8 (S)	%	92	69-124	07/10/18 12:20	

LABORATORY CONTROL SAMPLE: 343085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.0	92	74-113	
1,1,1-Trichloroethane	ug/L	50	47.4	95	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	40.2	80	74-121	
1,1,2-Trichloroethane	ug/L	50	47.0	94	80-117	
1,1-Dichloroethane	ug/L	50	47.7	95	83-151	
1,1-Dichloroethene	ug/L	50	40.5	81	45-146	
1,1-Dichloropropene	ug/L	50	44.9	90	59-127	
1,2,3-Trichlorobenzene	ug/L	50	45.6	91	67-103	
1,2,3-Trichloropropane	ug/L	50	42.4	85	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	42.9	86	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	43.3	87	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	83-115	
1,2-Dichloroethane	ug/L	50	51.5	103	74-129	
1,2-Dichloropropane	ug/L	50	43.5	87	75-117	
1,3,5-Trimethylbenzene	ug/L	50	42.1	84	67-116	
1,3-Dichlorobenzene	ug/L	50	44.1	88	71-112	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-7/6

Pace Project No.: 7057324

LABORATORY CONTROL SAMPLE: 343085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	41.7	83	74-112	
1,4-Diethylbenzene	ug/L	50	43.1	86	56-130	N3
2,2-Dichloropropane	ug/L	50	49.4	99	63-133	CH
2-Butanone (MEK)	ug/L	50	42.4	85	44-162	
2-Chlorotoluene	ug/L	50	43.0	86	74-101	
2-Hexanone	ug/L	50	39.1	78	32-183	
4-Chlorotoluene	ug/L	50	43.1	86	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	41.4	83	69-132	
Acetone	ug/L	50	40.7	81	23-188	
Benzene	ug/L	50	43.1	86	73-119	
Bromobenzene	ug/L	50	44.2	88	72-102	
Bromochloromethane	ug/L	50	49.6	99	81-116	
Bromodichloromethane	ug/L	50	46.6	93	78-117	
Bromoform	ug/L	50	48.2	96	65-122	
Bromomethane	ug/L	50	39.4	79	52-147	
Carbon disulfide	ug/L	50	41.1	82	41-144	
Carbon tetrachloride	ug/L	50	44.6	89	59-120	
Chlorobenzene	ug/L	50	43.4	87	75-113	
Chlorodifluoromethane	ug/L	50	45.7	91	43-140	N3
Chloroethane	ug/L	50	40.1	80	49-151	
Chloroform	ug/L	50	51.9	104	72-122	
Chloromethane	ug/L	50	33.5	67	46-144	CL
cis-1,2-Dichloroethene	ug/L	50	48.4	97	72-121	
cis-1,3-Dichloropropene	ug/L	50	46.7	93	78-116	
Dibromochloromethane	ug/L	50	45.9	92	70-120	
Dibromomethane	ug/L	50	47.2	94	75-125	
Dichlorodifluoromethane	ug/L	50	48.9	98	22-154	
Ethanol	ug/L	1250	1220	97	10-151	IL
Ethylbenzene	ug/L	50	42.3	85	70-113	
Hexachloro-1,3-butadiene	ug/L	50	14.1	28	59-121	CL,IL,L2
Isopropylbenzene (Cumene)	ug/L	50	42.2	84	67-115	
Methylene Chloride	ug/L	50	44.4	89	61-142	
n-Butylbenzene	ug/L	50	41.1	82	73-107	
n-Propylbenzene	ug/L	50	43.5	87	68-116	
p-Isopropyltoluene	ug/L	50	45.4	91	73-101	
sec-Butylbenzene	ug/L	50	41.7	83	72-103	
Styrene	ug/L	50	44.9	90	72-118	
tert-Butylbenzene	ug/L	50	41.8	84	68-100	
Tetrachloroethene	ug/L	50	46.2	92	60-128	
Toluene	ug/L	50	44.0	88	72-119	
trans-1,2-Dichloroethene	ug/L	50	46.2	92	56-142	
trans-1,3-Dichloropropene	ug/L	50	46.1	92	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	42.9	86	71-121	
Trichloroethene	ug/L	50	42.9	86	69-117	
Vinyl chloride	ug/L	50	36.4	73	43-143	
Xylene (Total)	ug/L	150	133	88	71-109	
1,2-Dichloroethane-d4 (S)	%			109	68-153	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-7/6

Pace Project No.: 7057324

LABORATORY CONTROL SAMPLE: 343085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	79-124	
Toluene-d8 (S)	%			95	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343086 343087

Parameter	Units	7057408001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	41.3	40.9	83	82	74-113	1	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	45.7	46.3	91	93	65-118	1	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	35.2	38.2	70	76	74-121	8	M1
1,1,2-Trichloroethane	ug/L	<1.0	50	50	44.4	46.2	89	92	80-117	4	
1,1-Dichloroethane	ug/L	<1.0	50	50	45.3	48.6	91	97	83-151	7	
1,1-Dichloroethene	ug/L	<1.0	50	50	43.5	42.5	87	85	45-146	2	
1,1-Dichloropropene	ug/L	<1.0	50	50	45.5	46.5	91	93	59-127	2	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	41.4	46.5	83	93	67-103	12	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	37.8	42.8	76	86	71-123	12	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	50	40.6	42.4	81	85	66-103	4	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	50	50	39.3	41.7	79	83	68-116	6	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	45.1	46.6	90	93	83-115	3	
1,2-Dichloroethane	ug/L	<1.0	50	50	44.9	47.5	90	95	74-129	6	
1,2-Dichloropropane	ug/L	<1.0	50	50	45.6	44.2	91	88	75-117	3	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	50	39.2	40.9	78	82	67-116	4	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	39.2	41.2	78	82	71-112	5	
1,3-Dichloropropane	ug/L	<1.0	50	50	39.2	40.0	78	80	74-112	2	
1,4-Diethylbenzene	ug/L	<1.0	50	50	38.2	40.6	76	81	56-130	6	N3
2,2-Dichloropropane	ug/L	<1.0	50	50	47.9	50.1	96	100	63-133	4	CH
2-Butanone (MEK)	ug/L	<5.0	50	50	34.0	36.4	68	73	44-162	7	
2-Chlorotoluene	ug/L	<1.0	50	50	37.6	39.8	75	80	74-101	5	
2-Hexanone	ug/L	<5.0	50	50	36.1	37.3	72	75	32-183	3	
4-Chlorotoluene	ug/L	<1.0	50	50	40.7	42.1	81	84	74-101	4	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	38.0	40.3	76	81	69-132	6	
Acetone	ug/L	<5.0	50	50	28.3	32.2	57	64	23-188	13	
Benzene	ug/L	<1.0	50	50	43.0	43.5	86	87	73-119	1	
Bromobenzene	ug/L	<1.0	50	50	38.6	41.1	77	82	72-102	6	
Bromochloromethane	ug/L	<1.0	50	50	45.9	45.6	92	91	81-116	1	
Bromodichloromethane	ug/L	<1.0	50	50	44.3	44.6	89	89	78-117	1	
Bromoform	ug/L	<1.0	50	50	43.1	44.7	86	89	65-122	4	
Bromomethane	ug/L	<1.0	50	50	32.5	33.7	65	67	52-147	4	
Carbon disulfide	ug/L	<1.0	50	50	41.5	41.7	83	83	41-144	0	
Carbon tetrachloride	ug/L	<1.0	50	50	45.3	45.7	91	91	59-120	1	
Chlorobenzene	ug/L	<1.0	50	50	42.3	42.9	85	86	75-113	2	
Chlorodifluoromethane	ug/L	<1.0	50	50	43.8	44.8	88	90	43-140	2	N3
Chloroethane	ug/L	<1.0	50	50	44.2	44.5	88	89	49-151	1	
Chloroform	ug/L	<1.0	50	50	46.6	49.3	93	99	72-122	5	
Chloromethane	ug/L	<1.0	50	50	30.5	29.5	61	59	46-144	3	CL

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-7/6

Pace Project No.: 7057324

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 343086 343087											
Parameter	Units	7057408001		MS	MSD	MS		MSD	% Rec		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	Result	% Rec	Limits	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	50	46.8	47.0	94	94	72-121	1
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	50	43.5	44.8	87	90	78-116	3
Dibromochloromethane	ug/L	<1.0	50	50	50	41.0	44.1	82	88	70-120	7
Dibromomethane	ug/L	<1.0	50	50	50	46.3	46.2	93	92	75-125	0
Dichlorodifluoromethane	ug/L	<1.0	50	50	50	43.0	46.5	86	93	22-154	8
Ethanol	ug/L	<250	1250	1250	1250	1540	1020	123	81	10-151	41 IL,R1
Ethylbenzene	ug/L	<1.0	50	50	50	42.5	43.7	85	87	70-113	3
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	50	15.4	12.0	31	24	59-121	25 CL,IL,M0,R1
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	50	38.9	40.9	78	82	67-115	5
Methylene Chloride	ug/L	<1.0	50	50	50	41.0	39.8	82	80	61-142	3
n-Butylbenzene	ug/L	<1.0	50	50	50	39.0	40.9	78	82	73-107	5
n-Propylbenzene	ug/L	<1.0	50	50	50	40.1	42.3	80	85	68-116	5
p-Isopropyltoluene	ug/L	<1.0	50	50	50	41.6	42.7	83	85	73-101	3
sec-Butylbenzene	ug/L	<1.0	50	50	50	40.1	41.8	80	84	72-103	4
Styrene	ug/L	<1.0	50	50	50	43.2	42.6	86	85	72-118	1
tert-Butylbenzene	ug/L	<1.0	50	50	50	40.1	41.0	80	82	68-100	2
Tetrachloroethene	ug/L	<1.0	50	50	50	37.3	39.1	75	78	60-128	5
Toluene	ug/L	<1.0	50	50	50	43.4	44.8	87	90	72-119	3
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	50	45.0	46.8	90	94	56-142	4
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50	45.2	43.9	90	88	79-116	3
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	50	38.2	40.3	76	81	71-121	6
Trichloroethene	ug/L	<1.0	50	50	50	41.7	44.2	83	88	69-117	6
Vinyl chloride	ug/L	<1.0	50	50	50	36.9	38.7	74	77	43-143	5
Xylene (Total)	ug/L	<3.0	150	150	150	125	129	84	86	71-109	3
1,2-Dichloroethane-d4 (S)	%							105	107	68-153	
4-Bromofluorobenzene (S)	%							98	101	79-124	
Toluene-d8 (S)	%							97	96	69-124	

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QUALITY CONTROL DATA

Project: MONTHLY-7/6

Pace Project No.: 7057324

QC Batch:	74532	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	7057324001, 7057324002, 7057324003		

METHOD BLANK: 342417 Matrix: Water

Associated Lab Samples: 7057324001, 7057324002, 7057324003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	07/10/18 14:28	

LABORATORY CONTROL SAMPLE: 342418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	474	95	85-115	

MATRIX SPIKE SAMPLE: 342420

Parameter	Units	7057203001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	94.0	600	676	97	75-125	

MATRIX SPIKE SAMPLE: 342422

Parameter	Units	7057324002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	98.0	600	660	94	75-125	

SAMPLE DUPLICATE: 342419

Parameter	Units	7057203001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	94.0	106	12	

SAMPLE DUPLICATE: 342421

Parameter	Units	7057324002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	106	8	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MONTHLY-7/6

Pace Project No.: 7057324

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MONTHLY-7/6

Pace Project No.: 7057324

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7057324001	INFLUENT #1	EPA 200.7	74321	EPA 200.7	74327
7057324002	INFLUENT #2	EPA 200.7	74321	EPA 200.7	74327
7057324003	EFFLUENT #1	EPA 200.7	74321	EPA 200.7	74327
7057324001	INFLUENT #1	EPA 200.7	74459		
7057324002	INFLUENT #2	EPA 200.7	74459		
7057324003	EFFLUENT #1	EPA 200.7	74459		
7057324001	INFLUENT #1	EPA 8260C/5030C	74666		
7057324002	INFLUENT #2	EPA 8260C/5030C	74666		
7057324003	EFFLUENT #1	EPA 8260C/5030C	74666		
7057324001	INFLUENT #1	SM22 2540C	74532		
7057324002	INFLUENT #2	SM22 2540C	74532		
7057324003	EFFLUENT #1	SM22 2540C	74532		

REPORT OF LABORATORY ANALYSIS

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WO#: 7057324

Section A

Required Client Information:

Company: Fairchild Corporation

Company:	1 Allending Corporate
Address:	136 Gazza Blvd

Address: 130 Gazza Blvd
Farmersdale NY 11735-1430

Farmingdale, NY 117351420

Email: paul@wiretowater.com

Phone: _____

Section B

Required Project Information:

Report To: Paul Lanzillotta

Report To:	Paul Lanzetta
Copy To:	

Copy to:

Purchase Order #:

Project Name: MONTHLY

Project #:

Section C

Invoice Information:

Attention:

Company Name:

Company I

Address: _____

Pace Quote:

Pace Project Ma

Pace Profile #:

[illegible]

Client Name:

Fairchild Corporation

Pro

WO#: 7057324

PM: JDS Due Date: 07/17/18
CLIENT: FAIR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: 0.0

Cooler Temperature (°C): 11.1

Cooler Temperature Corrected (°C): 11.1

Temperature Blank Present: ☐

Type of Ice: ☒ Wet ☐ Blue ☐ None

☒ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

Date and Initials of person examining contents: DL 7/6/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☒ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☒ Yes	☐ No		1.
Chain of Custody Filled Out:	☒ Yes	☐ No		2.
Chain of Custody Relinquished:	☒ Yes	☐ No		3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD):	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
-Pace Containers Used:	☒ Yes	☐ No		10.
Containers Intact:	☒ Yes	☐ No		11.
Filtered volume received for Dissolved tests	☐ Yes	☒ No	☐ N/A	12.
Sample Labels match COC:	☒ Yes	☐ No		
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☒ Yes	☐ No	☐ N/A	13.
pH paper Lot # <u>H0727135</u>				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	☒ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☐ Yes	☐ No	☒ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☒ No	☐ N/A	15.
Trip Blank Present:	☐ Yes	☒ No	☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if applicable):				
				Initial when completed: Lot # of added preservative: Date/Time preservative added:
				14. Positive for Res. Chlorine? Y N

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

September 10, 2018

James
Wire to Water Electrical Contractors
136 Gazza Blvd
Farmingdale, NY 117351420

RE: Project: MONTHLY 8/29
Pace Project No.: 7063137

Dear James:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Paul Lanzillotta, Wire to Water Electrical Contractors
Caroline Mendoza, Fairchild Corporation
Stuart Skopicki, Wire to Water Electrical Contractors



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MONTHLY 8/29

Pace Project No.: 7063137

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY 8/29

Pace Project No.: 7063137

Sample: INFLUENT #1		Lab ID: 7063137001		Collected: 08/29/18 12:00		Received: 08/29/18 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	08/30/18 09:33	08/31/18 03:58	7440-41-7		
Iron	909	ug/L	20.0	1	08/30/18 09:33	08/31/18 03:58	7439-89-6		
Manganese	76.1	ug/L	10.0	1	08/30/18 09:33	08/31/18 03:58	7439-96-5		
Zinc	35.0	ug/L	20.0	1	08/30/18 09:33	08/31/18 03:58	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		08/31/18 13:20	7440-41-7		
Iron, Dissolved	924	ug/L	20.0	1		08/31/18 13:20	7439-89-6		
Manganese, Dissolved	74.9	ug/L	10.0	1		08/31/18 13:20	7439-96-5		
Zinc, Dissolved	55.4	ug/L	20.0	1		08/31/18 13:20	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Acetone	<5.0	ug/L	5.0	1		08/30/18 19:30	67-64-1		
Benzene	1.5	ug/L	1.0	1		08/30/18 19:30	71-43-2		
Bromobenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	108-86-1		
Bromochloromethane	<1.0	ug/L	1.0	1		08/30/18 19:30	74-97-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		08/30/18 19:30	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		08/30/18 19:30	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		08/30/18 19:30	74-83-9		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/30/18 19:30	78-93-3		
n-Butylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	104-51-8		
sec-Butylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	98-06-6		
Carbon disulfide	<1.0	ug/L	1.0	1		08/30/18 19:30	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/30/18 19:30	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	108-90-7		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		08/30/18 19:30	75-45-6	N3	
Chloroethane	<1.0	ug/L	1.0	1		08/30/18 19:30	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		08/30/18 19:30	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		08/30/18 19:30	74-87-3	CL	
2-Chlorotoluene	<1.0	ug/L	1.0	1		08/30/18 19:30	95-49-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		08/30/18 19:30	106-43-4		
Dibromochloromethane	<1.0	ug/L	1.0	1		08/30/18 19:30	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		08/30/18 19:30	106-93-4		
Dibromomethane	<1.0	ug/L	1.0	1		08/30/18 19:30	74-95-3		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	541-73-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		08/30/18 19:30	110-57-6		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		08/30/18 19:30	75-71-8		
1,1-Dichloroethane	14.1	ug/L	1.0	1		08/30/18 19:30	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/30/18 19:30	107-06-2		
1,1-Dichloroethene	5.6	ug/L	1.0	1		08/30/18 19:30	75-35-4		
cis-1,2-Dichloroethene	159	ug/L	1.0	1		08/30/18 19:30	156-59-2		
trans-1,2-Dichloroethene	1.5	ug/L	1.0	1		08/30/18 19:30	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/30/18 19:30	78-87-5		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		08/30/18 19:30	142-28-9		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		08/30/18 19:30	594-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY 8/29

Pace Project No.: 7063137

Sample: INFLUENT #1		Lab ID: 7063137001	Collected: 08/29/18 12:00	Received: 08/29/18 15:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C						
1,1-Dichloropropene	<1.0	ug/L	1.0	1		08/30/18 19:30	563-58-6	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/30/18 19:30	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/30/18 19:30	10061-02-6	
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	105-05-5	N3
Ethanol	<250	ug/L	250	1		08/30/18 19:30	64-17-5	
Ethylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		08/30/18 19:30	87-68-3	CL,L2
2-Hexanone	<5.0	ug/L	5.0	1		08/30/18 19:30	591-78-6	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		08/30/18 19:30	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		08/30/18 19:30	99-87-6	
Methylene Chloride	<1.0	ug/L	1.0	1		08/30/18 19:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/30/18 19:30	108-10-1	
n-Propylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	103-65-1	
Styrene	<1.0	ug/L	1.0	1		08/30/18 19:30	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/30/18 19:30	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/30/18 19:30	79-34-5	
Tetrachloroethene	450	ug/L	20.0	20		08/30/18 19:50	127-18-4	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	95-93-2	N3
Toluene	<1.0	ug/L	1.0	1		08/30/18 19:30	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	87-61-6	
1,1,1-Trichloroethane	1.5	ug/L	1.0	1		08/30/18 19:30	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/30/18 19:30	79-00-5	
Trichloroethene	86.4	ug/L	1.0	1		08/30/18 19:30	79-01-6	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		08/30/18 19:30	96-18-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:30	108-67-8	
Vinyl chloride	18.5	ug/L	1.0	1		08/30/18 19:30	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		08/30/18 19:30	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	68-153	1		08/30/18 19:30	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		08/30/18 19:30	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		08/30/18 19:30	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C						
Total Dissolved Solids	132	mg/L	10.0	1		09/04/18 14:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY 8/29

Pace Project No.: 7063137

Sample: INFLUENT #2		Lab ID: 7063137002		Collected: 08/29/18 12:15		Received: 08/29/18 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	08/30/18 09:33	08/31/18 04:03	7440-41-7		
Iron	676	ug/L	20.0	1	08/30/18 09:33	08/31/18 04:03	7439-89-6		
Manganese	70.2	ug/L	10.0	1	08/30/18 09:33	08/31/18 04:03	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	08/30/18 09:33	08/31/18 04:03	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		08/31/18 13:25	7440-41-7		
Iron, Dissolved	392	ug/L	20.0	1		08/31/18 13:25	7439-89-6		
Manganese, Dissolved	73.2	ug/L	10.0	1		08/31/18 13:25	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		08/31/18 13:25	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Acetone	<5.0	ug/L	5.0	1		08/30/18 19:09	67-64-1		
Benzene	<1.0	ug/L	1.0	1		08/30/18 19:09	71-43-2		
Bromobenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	108-86-1		
Bromochloromethane	<1.0	ug/L	1.0	1		08/30/18 19:09	74-97-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		08/30/18 19:09	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		08/30/18 19:09	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		08/30/18 19:09	74-83-9		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/30/18 19:09	78-93-3		
n-Butylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	104-51-8		
sec-Butylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	98-06-6		
Carbon disulfide	<1.0	ug/L	1.0	1		08/30/18 19:09	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/30/18 19:09	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	108-90-7		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		08/30/18 19:09	75-45-6	N3	
Chloroethane	<1.0	ug/L	1.0	1		08/30/18 19:09	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		08/30/18 19:09	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		08/30/18 19:09	74-87-3	CL	
2-Chlorotoluene	<1.0	ug/L	1.0	1		08/30/18 19:09	95-49-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		08/30/18 19:09	106-43-4		
Dibromochloromethane	<1.0	ug/L	1.0	1		08/30/18 19:09	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		08/30/18 19:09	106-93-4		
Dibromomethane	<1.0	ug/L	1.0	1		08/30/18 19:09	74-95-3		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	541-73-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		08/30/18 19:09	110-57-6		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		08/30/18 19:09	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/30/18 19:09	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/30/18 19:09	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		08/30/18 19:09	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		08/30/18 19:09	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		08/30/18 19:09	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/30/18 19:09	78-87-5		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		08/30/18 19:09	142-28-9		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		08/30/18 19:09	594-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY 8/29

Pace Project No.: 7063137

Sample: INFLUENT #2		Lab ID: 7063137002		Collected: 08/29/18 12:15		Received: 08/29/18 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
1,1-Dichloropropene	<1.0	ug/L	1.0	1		08/30/18 19:09	563-58-6		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/30/18 19:09	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/30/18 19:09	10061-02-6		
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	105-05-5	N3	
Ethanol	<250	ug/L	250	1		08/30/18 19:09	64-17-5		
Ethylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	100-41-4		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		08/30/18 19:09	87-68-3	CL,L2	
2-Hexanone	<5.0	ug/L	5.0	1		08/30/18 19:09	591-78-6		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		08/30/18 19:09	98-82-8		
p-Isopropyltoluene	<1.0	ug/L	1.0	1		08/30/18 19:09	99-87-6		
Methylene Chloride	<1.0	ug/L	1.0	1		08/30/18 19:09	75-09-2		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/30/18 19:09	108-10-1		
n-Propylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	103-65-1		
Styrene	<1.0	ug/L	1.0	1		08/30/18 19:09	100-42-5		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/30/18 19:09	630-20-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/30/18 19:09	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		08/30/18 19:09	127-18-4		
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	95-93-2	N3	
Toluene	<1.0	ug/L	1.0	1		08/30/18 19:09	108-88-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	87-61-6		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/30/18 19:09	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/30/18 19:09	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		08/30/18 19:09	79-01-6		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		08/30/18 19:09	96-18-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	95-63-6		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		08/30/18 19:09	108-67-8		
Vinyl chloride	<1.0	ug/L	1.0	1		08/30/18 19:09	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		08/30/18 19:09	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		08/30/18 19:09	17060-07-0		
4-Bromofluorobenzene (S)	97	%	79-124	1		08/30/18 19:09	460-00-4		
Toluene-d8 (S)	91	%	69-124	1		08/30/18 19:09	2037-26-5		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	124	mg/L	10.0	1		09/04/18 14:54			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY 8/29

Pace Project No.: 7063137

Sample: EFFLUENT #1		Lab ID: 7063137003		Collected: 08/29/18 12:30		Received: 08/29/18 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	08/30/18 09:33	08/31/18 04:09	7440-41-7		
Iron	722	ug/L	20.0	1	08/30/18 09:33	08/31/18 04:09	7439-89-6		
Manganese	72.2	ug/L	10.0	1	08/30/18 09:33	08/31/18 04:09	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	08/30/18 09:33	08/31/18 04:09	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		08/31/18 13:26	7440-41-7		
Iron, Dissolved	380	ug/L	20.0	1		08/31/18 13:26	7439-89-6		
Manganese, Dissolved	75.9	ug/L	10.0	1		08/31/18 13:26	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		08/31/18 13:26	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Acetone	<5.0	ug/L	5.0	1		08/30/18 18:49	67-64-1		
Benzene	<1.0	ug/L	1.0	1		08/30/18 18:49	71-43-2		
Bromobenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	108-86-1		
Bromochloromethane	<1.0	ug/L	1.0	1		08/30/18 18:49	74-97-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		08/30/18 18:49	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		08/30/18 18:49	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		08/30/18 18:49	74-83-9		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/30/18 18:49	78-93-3		
n-Butylbenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	104-51-8		
sec-Butylbenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	98-06-6		
Carbon disulfide	<1.0	ug/L	1.0	1		08/30/18 18:49	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/30/18 18:49	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	108-90-7		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		08/30/18 18:49	75-45-6	N3	
Chloroethane	<1.0	ug/L	1.0	1		08/30/18 18:49	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		08/30/18 18:49	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		08/30/18 18:49	74-87-3	CL	
2-Chlorotoluene	<1.0	ug/L	1.0	1		08/30/18 18:49	95-49-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		08/30/18 18:49	106-43-4		
Dibromochloromethane	<1.0	ug/L	1.0	1		08/30/18 18:49	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		08/30/18 18:49	106-93-4		
Dibromomethane	<1.0	ug/L	1.0	1		08/30/18 18:49	74-95-3		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	541-73-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		08/30/18 18:49	110-57-6		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		08/30/18 18:49	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/30/18 18:49	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/30/18 18:49	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		08/30/18 18:49	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		08/30/18 18:49	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		08/30/18 18:49	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/30/18 18:49	78-87-5		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		08/30/18 18:49	142-28-9		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		08/30/18 18:49	594-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY 8/29

Pace Project No.: 7063137

Sample: EFFLUENT #1		Lab ID: 7063137003		Collected: 08/29/18 12:30		Received: 08/29/18 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
1,1-Dichloropropene	<1.0	ug/L	1.0	1		08/30/18 18:49	563-58-6		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/30/18 18:49	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/30/18 18:49	10061-02-6		
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	105-05-5	N3	
Ethanol	<250	ug/L	250	1		08/30/18 18:49	64-17-5		
Ethylbenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	100-41-4		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		08/30/18 18:49	87-68-3	CL,L2	
2-Hexanone	<5.0	ug/L	5.0	1		08/30/18 18:49	591-78-6		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		08/30/18 18:49	98-82-8		
p-Isopropyltoluene	<1.0	ug/L	1.0	1		08/30/18 18:49	99-87-6		
Methylene Chloride	<1.0	ug/L	1.0	1		08/30/18 18:49	75-09-2		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/30/18 18:49	108-10-1		
n-Propylbenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	103-65-1		
Styrene	<1.0	ug/L	1.0	1		08/30/18 18:49	100-42-5		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/30/18 18:49	630-20-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/30/18 18:49	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		08/30/18 18:49	127-18-4		
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	95-93-2	N3	
Toluene	<1.0	ug/L	1.0	1		08/30/18 18:49	108-88-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	87-61-6		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/30/18 18:49	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/30/18 18:49	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		08/30/18 18:49	79-01-6		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		08/30/18 18:49	96-18-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	95-63-6		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		08/30/18 18:49	108-67-8		
Vinyl chloride	<1.0	ug/L	1.0	1		08/30/18 18:49	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		08/30/18 18:49	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		08/30/18 18:49	17060-07-0		
4-Bromofluorobenzene (S)	100	%	79-124	1		08/30/18 18:49	460-00-4		
Toluene-d8 (S)	94	%	69-124	1		08/30/18 18:49	2037-26-5		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	139	mg/L	10.0	1		09/04/18 14:54			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY 8/29

Pace Project No.: 7063137

QC Batch:	81225	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	7063137001, 7063137002, 7063137003		

METHOD BLANK: 373533 Matrix: Water

Associated Lab Samples: 7063137001, 7063137002, 7063137003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	5.0	08/31/18 13:18	
Iron, Dissolved	ug/L	<20.0	20.0	08/31/18 13:18	
Manganese, Dissolved	ug/L	<10.0	10.0	08/31/18 13:18	
Zinc, Dissolved	ug/L	<20.0	20.0	08/31/18 13:18	

LABORATORY CONTROL SAMPLE: 373534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	50	49.6	99	85-115	
Iron, Dissolved	ug/L	2000	1980	99	85-115	
Manganese, Dissolved	ug/L	250	248	99	85-115	
Zinc, Dissolved	ug/L	1000	996	100	85-115	

MATRIX SPIKE SAMPLE: 373537

Parameter	Units	7063137001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	50	48.1	96	70-130	
Iron, Dissolved	ug/L	924	2000	2840	96	70-130	
Manganese, Dissolved	ug/L	74.9	250	318	97	70-130	
Zinc, Dissolved	ug/L	55.4	1000	1050	99	70-130	

SAMPLE DUPLICATE: 373536

Parameter	Units	7063137001 Result	Dup Result	RPD	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	<5.0		
Iron, Dissolved	ug/L	924	919	1	
Manganese, Dissolved	ug/L	74.9	73.6	2	
Zinc, Dissolved	ug/L	55.4	55.5	0	

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QUALITY CONTROL DATA

Project: MONTHLY 8/29

Pace Project No.: 7063137

QC Batch: 81215 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7063137001, 7063137002, 7063137003

METHOD BLANK: 373466 Matrix: Water

Associated Lab Samples: 7063137001, 7063137002, 7063137003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium	ug/L	<5.0	5.0	08/31/18 03:18	
Iron	ug/L	<20.0	20.0	08/31/18 03:18	
Manganese	ug/L	<10.0	10.0	08/31/18 03:18	
Zinc	ug/L	<20.0	20.0	08/31/18 03:18	

LABORATORY CONTROL SAMPLE: 373467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	50	51.6	103	85-115	
Iron	ug/L	2000	2070	104	85-115	
Manganese	ug/L	250	256	102	85-115	
Zinc	ug/L	1000	1020	102	85-115	

MATRIX SPIKE SAMPLE: 373469

Parameter	Units	7063068004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	52.1	104	70-130	
Iron	ug/L	390	2000	2490	105	70-130	
Manganese	ug/L	<10.0	250	270	105	70-130	
Zinc	ug/L	56.5	1000	1070	102	70-130	

SAMPLE DUPLICATE: 373468

Parameter	Units	7063068004 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	390	363	7	
Manganese	ug/L	<10.0	<10.0		
Zinc	ug/L	56.5	51.5	9	

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QUALITY CONTROL DATA

Project: MONTHLY 8/29

Pace Project No.: 7063137

QC Batch:	81321	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
Associated Lab Samples:	7063137001, 7063137002, 7063137003		

METHOD BLANK: 374170 Matrix: Water

Associated Lab Samples: 7063137001, 7063137002, 7063137003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	08/30/18 13:02	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	08/30/18 13:02	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	08/30/18 13:02	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	08/30/18 13:02	
1,1-Dichloroethane	ug/L	<1.0	1.0	08/30/18 13:02	
1,1-Dichloroethene	ug/L	<1.0	1.0	08/30/18 13:02	
1,1-Dichloropropene	ug/L	<1.0	1.0	08/30/18 13:02	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	08/30/18 13:02	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	08/30/18 13:02	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	08/30/18 13:02	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	08/30/18 13:02	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	08/30/18 13:02	
1,2-Dichloroethane	ug/L	<1.0	1.0	08/30/18 13:02	
1,2-Dichloropropane	ug/L	<1.0	1.0	08/30/18 13:02	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	08/30/18 13:02	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	08/30/18 13:02	
1,3-Dichloropropane	ug/L	<1.0	1.0	08/30/18 13:02	
1,4-Diethylbenzene	ug/L	<1.0	1.0	08/30/18 13:02	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	08/30/18 13:02	
2-Butanone (MEK)	ug/L	<5.0	5.0	08/30/18 13:02	
2-Chlorotoluene	ug/L	<1.0	1.0	08/30/18 13:02	
2-Hexanone	ug/L	<5.0	5.0	08/30/18 13:02	
4-Chlorotoluene	ug/L	<1.0	1.0	08/30/18 13:02	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	08/30/18 13:02	
Acetone	ug/L	<5.0	5.0	08/30/18 13:02	
Benzene	ug/L	<1.0	1.0	08/30/18 13:02	
Bromobenzene	ug/L	<1.0	1.0	08/30/18 13:02	
Bromochloromethane	ug/L	<1.0	1.0	08/30/18 13:02	
Bromodichloromethane	ug/L	<1.0	1.0	08/30/18 13:02	
Bromoform	ug/L	<1.0	1.0	08/30/18 13:02	
Bromomethane	ug/L	<1.0	1.0	08/30/18 13:02	
Carbon disulfide	ug/L	<1.0	1.0	08/30/18 13:02	
Carbon tetrachloride	ug/L	<1.0	1.0	08/30/18 13:02	
Chlorobenzene	ug/L	<1.0	1.0	08/30/18 13:02	
Chlorodifluoromethane	ug/L	<1.0	1.0	08/30/18 13:02	N3
Chloroethane	ug/L	<1.0	1.0	08/30/18 13:02	
Chloroform	ug/L	<1.0	1.0	08/30/18 13:02	
Chloromethane	ug/L	<1.0	1.0	08/30/18 13:02	CL
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	08/30/18 13:02	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	08/30/18 13:02	
Dibromochloromethane	ug/L	<1.0	1.0	08/30/18 13:02	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY 8/29

Pace Project No.: 7063137

METHOD BLANK: 374170

Matrix: Water

Associated Lab Samples: 7063137001, 7063137002, 7063137003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	08/30/18 13:02	
Dichlorodifluoromethane	ug/L	<1.0	1.0	08/30/18 13:02	
Ethanol	ug/L	<250	250	08/30/18 13:02	
Ethylbenzene	ug/L	<1.0	1.0	08/30/18 13:02	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	08/30/18 13:02	CL
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	08/30/18 13:02	
Methylene Chloride	ug/L	<1.0	1.0	08/30/18 13:02	
n-Butylbenzene	ug/L	<1.0	1.0	08/30/18 13:02	
n-Propylbenzene	ug/L	<1.0	1.0	08/30/18 13:02	
p-Isopropyltoluene	ug/L	<1.0	1.0	08/30/18 13:02	
sec-Butylbenzene	ug/L	<1.0	1.0	08/30/18 13:02	
Styrene	ug/L	<1.0	1.0	08/30/18 13:02	
tert-Butylbenzene	ug/L	<1.0	1.0	08/30/18 13:02	
Tetrachloroethene	ug/L	<1.0	1.0	08/30/18 13:02	
Toluene	ug/L	<1.0	1.0	08/30/18 13:02	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	08/30/18 13:02	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	08/30/18 13:02	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	08/30/18 13:02	
Trichloroethene	ug/L	<1.0	1.0	08/30/18 13:02	
Vinyl chloride	ug/L	<1.0	1.0	08/30/18 13:02	
Xylene (Total)	ug/L	<3.0	3.0	08/30/18 13:02	
1,2-Dichloroethane-d4 (S)	%	98	68-153	08/30/18 13:02	
4-Bromofluorobenzene (S)	%	94	79-124	08/30/18 13:02	
Toluene-d8 (S)	%	95	69-124	08/30/18 13:02	

LABORATORY CONTROL SAMPLE: 374171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.7	89	74-113	
1,1,1-Trichloroethane	ug/L	50	46.0	92	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	39.1	78	74-121	
1,1,2-Trichloroethane	ug/L	50	45.9	92	80-117	
1,1-Dichloroethane	ug/L	50	49.8	100	83-151	
1,1-Dichloroethene	ug/L	50	47.0	94	45-146	
1,1-Dichloropropene	ug/L	50	45.2	90	59-127	
1,2,3-Trichlorobenzene	ug/L	50	46.0	92	67-103	
1,2,3-Trichloropropane	ug/L	50	43.0	86	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	41.8	84	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	41.8	84	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	83-115	
1,2-Dichloroethane	ug/L	50	52.5	105	74-129	
1,2-Dichloropropane	ug/L	50	50.0	100	75-117	
1,3,5-Trimethylbenzene	ug/L	50	41.5	83	67-116	
1,3-Dichlorobenzene	ug/L	50	41.7	83	71-112	

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QUALITY CONTROL DATA

Project: MONTHLY 8/29

Pace Project No.: 7063137

LABORATORY CONTROL SAMPLE: 374171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	42.7	85	74-112	
1,4-Diethylbenzene	ug/L	50	38.7	77	56-130	N3
2,2-Dichloropropane	ug/L	50	49.4	99	63-133	CH
2-Butanone (MEK)	ug/L	50	38.3	77	44-162	
2-Chlorotoluene	ug/L	50	39.9	80	74-101	
2-Hexanone	ug/L	50	41.7	83	32-183	
4-Chlorotoluene	ug/L	50	41.6	83	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	43.9	88	69-132	
Acetone	ug/L	50	38.2	76	23-188	
Benzene	ug/L	50	43.4	87	73-119	
Bromobenzene	ug/L	50	40.9	82	72-102	
Bromochloromethane	ug/L	50	52.2	104	81-116	
Bromodichloromethane	ug/L	50	47.3	95	78-117	
Bromoform	ug/L	50	51.5	103	65-122	
Bromomethane	ug/L	50	39.2	78	52-147	
Carbon disulfide	ug/L	50	40.4	81	41-144	
Carbon tetrachloride	ug/L	50	45.2	90	59-120	
Chlorobenzene	ug/L	50	44.6	89	75-113	
Chlorodifluoromethane	ug/L	50	46.8	94	43-140	N3
Chloroethane	ug/L	50	42.0	84	49-151	
Chloroform	ug/L	50	50.2	100	72-122	
Chloromethane	ug/L	50	28.1	56	46-144	CL
cis-1,2-Dichloroethene	ug/L	50	51.1	102	72-121	
cis-1,3-Dichloropropene	ug/L	50	45.2	90	78-116	
Dibromochloromethane	ug/L	50	46.9	94	70-120	
Dibromomethane	ug/L	50	51.1	102	75-125	
Dichlorodifluoromethane	ug/L	50	33.7	67	22-154	
Ethanol	ug/L	1250	1160	93	10-151	
Ethylbenzene	ug/L	50	45.1	90	70-113	
Hexachloro-1,3-butadiene	ug/L	50	12.2	24	59-121	CL,L2
Isopropylbenzene (Cumene)	ug/L	50	41.9	84	67-115	
Methylene Chloride	ug/L	50	42.6	85	61-142	
n-Butylbenzene	ug/L	50	41.4	83	73-107	
n-Propylbenzene	ug/L	50	41.7	83	68-116	
p-Isopropyltoluene	ug/L	50	41.7	83	73-101	
sec-Butylbenzene	ug/L	50	40.4	81	72-103	
Styrene	ug/L	50	45.3	91	72-118	
tert-Butylbenzene	ug/L	50	39.6	79	68-100	
Tetrachloroethene	ug/L	50	52.8	106	60-128	
Toluene	ug/L	50	44.8	90	72-119	
trans-1,2-Dichloroethene	ug/L	50	49.2	98	56-142	
trans-1,3-Dichloropropene	ug/L	50	48.4	97	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	51.5	103	71-121	CH
Trichloroethene	ug/L	50	45.4	91	69-117	
Vinyl chloride	ug/L	50	35.9	72	43-143	
Xylene (Total)	ug/L	150	133	89	71-109	
1,2-Dichloroethane-d4 (S)	%			96	68-153	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY 8/29

Pace Project No.: 7063137

LABORATORY CONTROL SAMPLE: 374171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			98	79-124	
Toluene-d8 (S)	%			95	69-124	

SAMPLE DUPLICATE: 374172

Parameter	Units	7063137002 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,1-Dichloropropene	ug/L	<1.0	<1.0		
1,2,3-Trichlorobenzene	ug/L	<1.0	<1.0		
1,2,3-Trichloropropane	ug/L	<1.0	<1.0		
1,2,4,5-tetramethylbenzene	ug/L	<1.0	<1.0		N3
1,2,4-Trimethylbenzene	ug/L	<1.0	<1.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3,5-Trimethylbenzene	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,3-Dichloropropane	ug/L	<1.0	<1.0		
1,4-Diethylbenzene	ug/L	<1.0	<1.0		N3
2,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Chlorotoluene	ug/L	<1.0	<1.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Chlorotoluene	ug/L	<1.0	<1.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<1.0	<1.0		
Bromobenzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chlorodifluoromethane	ug/L	<1.0	<1.0		N3
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		CL
cis-1,2-Dichloroethene	ug/L	<1.0	1.1		

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QUALITY CONTROL DATA

Project: MONTHLY 8/29

Pace Project No.: 7063137

SAMPLE DUPLICATE: 374172

Parameter	Units	7063137002 Result	Dup Result	RPD	Qualifiers
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dibromomethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Ethanol	ug/L	<250	<250		
Ethylbenzene	ug/L	<1.0	<1.0		
Hexachloro-1,3-butadiene	ug/L	<1.0	<1.0		CL
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
n-Propylbenzene	ug/L	<1.0	<1.0		
p-Isopropyltoluene	ug/L	<1.0	<1.0		
sec-Butylbenzene	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
trans-1,4-Dichloro-2-butene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	99	99	0	
4-Bromofluorobenzene (S)	%	97	100	4	
Toluene-d8 (S)	%	91	95	4	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY 8/29

Pace Project No.: 7063137

QC Batch:	81562	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	7063137001, 7063137002, 7063137003		

METHOD BLANK: 375183 Matrix: Water

Associated Lab Samples: 7063137001, 7063137002, 7063137003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	09/04/18 14:33	

LABORATORY CONTROL SAMPLE: 375184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	494	99	85-115	

MATRIX SPIKE SAMPLE: 375188

Parameter	Units	7062947021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	212	300	500	96	75-125	

MATRIX SPIKE SAMPLE: 375234

Parameter	Units	7063086001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	169	300	458	96	75-125	

SAMPLE DUPLICATE: 375187

Parameter	Units	7062947021 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	212	215	1	

SAMPLE DUPLICATE: 375233

Parameter	Units	7063086001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	169	177	5	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MONTHLY 8/29

Pace Project No.: 7063137

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MONTHLY 8/29

Pace Project No.: 7063137

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7063137001	INFLUENT #1	EPA 200.7	81215	EPA 200.7	81249
7063137002	INFLUENT #2	EPA 200.7	81215	EPA 200.7	81249
7063137003	EFFLUENT #1	EPA 200.7	81215	EPA 200.7	81249
7063137001	INFLUENT #1	EPA 200.7	81225		
7063137002	INFLUENT #2	EPA 200.7	81225		
7063137003	EFFLUENT #1	EPA 200.7	81225		
7063137001	INFLUENT #1	EPA 8260C/5030C	81321		
7063137002	INFLUENT #2	EPA 8260C/5030C	81321		
7063137003	EFFLUENT #1	EPA 8260C/5030C	81321		
7063137001	INFLUENT #1	SM22 2540C	81562		
7063137002	INFLUENT #2	SM22 2540C	81562		
7063137003	EFFLUENT #1	SM22 2540C	81562		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant field

Analytical

WO#: 7063137



706.3137

Of 1

[illegible]



Sample Condition Upon Receipt

WO#: 7063137

Client Name:

FAIR

Pro

PM: JDS Due Date: 09/10/18

CLIENT: FAIR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor:

0.0

Cooler Temperature (°C):

39

Cooler Temperature Corrected (°C):

39

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents:

8/29

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☒ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	6.
Rush Turn Around Time Requested: ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	10.
Containers Intact: ☒ Yes ☐ No	11. Note if sediment is visible in the dissolved container.
Filtered volume received for Dissolved tests: ☐ Yes ☐ No ☒ N/A	12.
Sample Labels match COC: ☒ Yes ☐ No	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
-Includes date/time/ID/Analysis Matrix SL WTI OIL	Sample #
All containers needing preservation have been checked: ☒ Yes ☐ No ☐ N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
pH paper Lot # 112739245	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide) ☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #	
Residual chlorine strips Lot #	
Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present: ☐ Yes ☒ No ☐ N/A	16.
Trip Blank Custody Seals Present: ☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if applicable):	

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

October 15, 2018

James
Wire to Water Electrical Contractors
136 Gazza Blvd
Farmingdale, NY 117351420

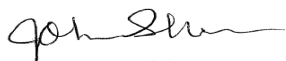
RE: Project: MONHTLY 10/4
Pace Project No.: 7066920

Dear James:

Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Paul Lanzillotta, Wire to Water Electrical Contractors
Caroline Mendoza, Fairchild Corporation
Stuart Skopicki, Wire to Water Electrical Contractors



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MONTHLY 10/4

Pace Project No.: 7066920

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONHTLY 10/4

Pace Project No.: 7066920

Sample: INFLUENT#1		Lab ID: 7066920001		Collected: 10/04/18 12:08		Received: 10/04/18 13:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	10/09/18 09:53	10/09/18 23:39	7440-41-7		
Iron	867	ug/L	20.0	1	10/09/18 09:53	10/09/18 23:39	7439-89-6		
Manganese	86.2	ug/L	10.0	1	10/09/18 09:53	10/09/18 23:39	7439-96-5		
Zinc	56.6	ug/L	20.0	1	10/09/18 09:53	10/09/18 23:39	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		10/09/18 22:05	7440-41-7		
Iron, Dissolved	126	ug/L	20.0	1		10/09/18 22:05	7439-89-6		
Manganese, Dissolved	60.1	ug/L	10.0	1		10/09/18 22:05	7439-96-5		
Zinc, Dissolved	46.9	ug/L	20.0	1		10/09/18 22:05	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Acetone	<100	ug/L	100	20		10/11/18 13:53	67-64-1		
Benzene	<20.0	ug/L	20.0	20		10/11/18 13:53	71-43-2		
Bromobenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	108-86-1		
Bromochloromethane	<20.0	ug/L	20.0	20		10/11/18 13:53	74-97-5		
Bromodichloromethane	<20.0	ug/L	20.0	20		10/11/18 13:53	75-27-4		
Bromoform	<20.0	ug/L	20.0	20		10/11/18 13:53	75-25-2		
Bromomethane	<20.0	ug/L	20.0	20		10/11/18 13:53	74-83-9		
2-Butanone (MEK)	<100	ug/L	100	20		10/11/18 13:53	78-93-3		
n-Butylbenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	104-51-8		
sec-Butylbenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	135-98-8		
tert-Butylbenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	98-06-6		
Carbon disulfide	<20.0	ug/L	20.0	20		10/11/18 13:53	75-15-0		
Carbon tetrachloride	<20.0	ug/L	20.0	20		10/11/18 13:53	56-23-5		
Chlorobenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	108-90-7		
Chlorodifluoromethane	<20.0	ug/L	20.0	20		10/11/18 13:53	75-45-6	N3	
Chloroethane	<20.0	ug/L	20.0	20		10/11/18 13:53	75-00-3		
Chloroform	<20.0	ug/L	20.0	20		10/11/18 13:53	67-66-3		
Chloromethane	<20.0	ug/L	20.0	20		10/11/18 13:53	74-87-3	CL	
2-Chlorotoluene	<20.0	ug/L	20.0	20		10/11/18 13:53	95-49-8		
4-Chlorotoluene	<20.0	ug/L	20.0	20		10/11/18 13:53	106-43-4		
Dibromochloromethane	<20.0	ug/L	20.0	20		10/11/18 13:53	124-48-1		
1,2-Dibromoethane (EDB)	<20.0	ug/L	20.0	20		10/11/18 13:53	106-93-4		
Dibromomethane	<20.0	ug/L	20.0	20		10/11/18 13:53	74-95-3		
1,3-Dichlorobenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	541-73-1		
trans-1,4-Dichloro-2-butene	<20.0	ug/L	20.0	20		10/11/18 13:53	110-57-6		
Dichlorodifluoromethane	<20.0	ug/L	20.0	20		10/11/18 13:53	75-71-8	CL	
1,1-Dichloroethane	32.9	ug/L	20.0	20		10/11/18 13:53	75-34-3		
1,2-Dichloroethane	<20.0	ug/L	20.0	20		10/11/18 13:53	107-06-2		
1,1-Dichloroethene	<20.0	ug/L	20.0	20		10/11/18 13:53	75-35-4		
cis-1,2-Dichloroethene	442	ug/L	20.0	20		10/11/18 13:53	156-59-2		
trans-1,2-Dichloroethene	<20.0	ug/L	20.0	20		10/11/18 13:53	156-60-5		
1,2-Dichloropropane	<20.0	ug/L	20.0	20		10/11/18 13:53	78-87-5		
1,3-Dichloropropane	<20.0	ug/L	20.0	20		10/11/18 13:53	142-28-9		
2,2-Dichloropropane	<20.0	ug/L	20.0	20		10/11/18 13:53	594-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONHTLY 10/4

Pace Project No.: 7066920

Sample: INFLUENT#1		Lab ID: 7066920001		Collected: 10/04/18 12:08		Received: 10/04/18 13:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
1,1-Dichloropropene	<20.0	ug/L	20.0	20		10/11/18 13:53	563-58-6		
cis-1,3-Dichloropropene	<20.0	ug/L	20.0	20		10/11/18 13:53	10061-01-5		
trans-1,3-Dichloropropene	<20.0	ug/L	20.0	20		10/11/18 13:53	10061-02-6		
1,4-Diethylbenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	105-05-5	N3	
Ethanol	<5000	ug/L	5000	20		10/11/18 13:53	64-17-5		
Ethylbenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	100-41-4		
Hexachloro-1,3-butadiene	<20.0	ug/L	20.0	20		10/11/18 13:53	87-68-3		
2-Hexanone	<100	ug/L	100	20		10/11/18 13:53	591-78-6		
Isopropylbenzene (Cumene)	<20.0	ug/L	20.0	20		10/11/18 13:53	98-82-8		
p-Isopropyltoluene	<20.0	ug/L	20.0	20		10/11/18 13:53	99-87-6		
Methylene Chloride	<20.0	ug/L	20.0	20		10/11/18 13:53	75-09-2		
4-Methyl-2-pentanone (MIBK)	<100	ug/L	100	20		10/11/18 13:53	108-10-1		
n-Propylbenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	103-65-1		
Styrene	<20.0	ug/L	20.0	20		10/11/18 13:53	100-42-5		
1,1,1,2-Tetrachloroethane	<20.0	ug/L	20.0	20		10/11/18 13:53	630-20-6		
1,1,2,2-Tetrachloroethane	<20.0	ug/L	20.0	20		10/11/18 13:53	79-34-5		
Tetrachloroethene	1370	ug/L	20.0	20		10/11/18 13:53	127-18-4		
1,2,4,5-tetramethylbenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	95-93-2	N3	
Toluene	<20.0	ug/L	20.0	20		10/11/18 13:53	108-88-3		
1,2,3-Trichlorobenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	87-61-6		
1,1,1-Trichloroethane	<20.0	ug/L	20.0	20		10/11/18 13:53	71-55-6		
1,1,2-Trichloroethane	<20.0	ug/L	20.0	20		10/11/18 13:53	79-00-5		
Trichloroethene	241	ug/L	20.0	20		10/11/18 13:53	79-01-6		
1,2,3-Trichloropropane	<20.0	ug/L	20.0	20		10/11/18 13:53	96-18-4		
1,2,4-Trimethylbenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	95-63-6		
1,3,5-Trimethylbenzene	<20.0	ug/L	20.0	20		10/11/18 13:53	108-67-8		
Vinyl chloride	39.7	ug/L	20.0	20		10/11/18 13:53	75-01-4	CL	
Xylene (Total)	<60.0	ug/L	60.0	20		10/11/18 13:53	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	68-153	20		10/11/18 13:53	17060-07-0		
4-Bromofluorobenzene (S)	98	%	79-124	20		10/11/18 13:53	460-00-4		
Toluene-d8 (S)	91	%	69-124	20		10/11/18 13:53	2037-26-5		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	121	mg/L	10.0	1		10/09/18 14:07			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONHTLY 10/4

Pace Project No.: 7066920

Sample: INFLUENT#2		Lab ID: 7066920002		Collected: 10/04/18 12:18		Received: 10/04/18 13:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	10/09/18 09:53	10/09/18 23:44	7440-41-7		
Iron	556	ug/L	20.0	1	10/09/18 09:53	10/09/18 23:44	7439-89-6		
Manganese	57.3	ug/L	10.0	1	10/09/18 09:53	10/09/18 23:44	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	10/09/18 09:53	10/09/18 23:44	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		10/09/18 22:10	7440-41-7		
Iron, Dissolved	375	ug/L	20.0	1		10/09/18 22:10	7439-89-6		
Manganese, Dissolved	57.4	ug/L	10.0	1		10/09/18 22:10	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		10/09/18 22:10	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Acetone	<5.0	ug/L	5.0	1		10/11/18 13:34	67-64-1		
Benzene	<1.0	ug/L	1.0	1		10/11/18 13:34	71-43-2		
Bromobenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	108-86-1		
Bromochloromethane	<1.0	ug/L	1.0	1		10/11/18 13:34	74-97-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		10/11/18 13:34	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		10/11/18 13:34	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		10/11/18 13:34	74-83-9		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/11/18 13:34	78-93-3		
n-Butylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	104-51-8		
sec-Butylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	98-06-6		
Carbon disulfide	<1.0	ug/L	1.0	1		10/11/18 13:34	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/11/18 13:34	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	108-90-7		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		10/11/18 13:34	75-45-6	N3	
Chloroethane	<1.0	ug/L	1.0	1		10/11/18 13:34	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		10/11/18 13:34	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		10/11/18 13:34	74-87-3	CL	
2-Chlorotoluene	<1.0	ug/L	1.0	1		10/11/18 13:34	95-49-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		10/11/18 13:34	106-43-4		
Dibromochloromethane	<1.0	ug/L	1.0	1		10/11/18 13:34	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		10/11/18 13:34	106-93-4		
Dibromomethane	<1.0	ug/L	1.0	1		10/11/18 13:34	74-95-3		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	541-73-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		10/11/18 13:34	110-57-6		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/11/18 13:34	75-71-8	CL	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/11/18 13:34	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/11/18 13:34	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/11/18 13:34	75-35-4		
cis-1,2-Dichloroethene	1.2	ug/L	1.0	1		10/11/18 13:34	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/11/18 13:34	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/11/18 13:34	78-87-5		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/11/18 13:34	142-28-9		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/11/18 13:34	594-20-7		

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ANALYTICAL RESULTS

Project: MONHTLY 10/4

Pace Project No.: 7066920

Sample: INFLUENT#2		Lab ID: 7066920002		Collected: 10/04/18 12:18		Received: 10/04/18 13:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/11/18 13:34	563-58-6		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/11/18 13:34	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/11/18 13:34	10061-02-6		
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	105-05-5	N3	
Ethanol	<250	ug/L	250	1		10/11/18 13:34	64-17-5		
Ethylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	100-41-4		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		10/11/18 13:34	87-68-3		
2-Hexanone	<5.0	ug/L	5.0	1		10/11/18 13:34	591-78-6		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		10/11/18 13:34	98-82-8		
p-Isopropyltoluene	<1.0	ug/L	1.0	1		10/11/18 13:34	99-87-6		
Methylene Chloride	<1.0	ug/L	1.0	1		10/11/18 13:34	75-09-2		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/11/18 13:34	108-10-1		
n-Propylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	103-65-1		
Styrene	<1.0	ug/L	1.0	1		10/11/18 13:34	100-42-5		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/11/18 13:34	630-20-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/11/18 13:34	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		10/11/18 13:34	127-18-4		
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	95-93-2	N3	
Toluene	<1.0	ug/L	1.0	1		10/11/18 13:34	108-88-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	87-61-6		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/11/18 13:34	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/11/18 13:34	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		10/11/18 13:34	79-01-6		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		10/11/18 13:34	96-18-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	95-63-6		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:34	108-67-8		
Vinyl chloride	<1.0	ug/L	1.0	1		10/11/18 13:34	75-01-4	CL	
Xylene (Total)	<3.0	ug/L	3.0	1		10/11/18 13:34	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	68-153	1		10/11/18 13:34	17060-07-0		
4-Bromofluorobenzene (S)	97	%	79-124	1		10/11/18 13:34	460-00-4		
Toluene-d8 (S)	90	%	69-124	1		10/11/18 13:34	2037-26-5		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	128	mg/L	10.0	1		10/09/18 14:07			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONHTLY 10/4

Pace Project No.: 7066920

Sample: EFFLUENT#1		Lab ID: 7066920003		Collected: 10/04/18 12:28		Received: 10/04/18 13:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	10/09/18 09:53	10/09/18 23:50	7440-41-7		
Iron	547	ug/L	20.0	1	10/09/18 09:53	10/09/18 23:50	7439-89-6		
Manganese	55.2	ug/L	10.0	1	10/09/18 09:53	10/09/18 23:50	7439-96-5		
Zinc	24.5	ug/L	20.0	1	10/09/18 09:53	10/09/18 23:50	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		10/09/18 22:15	7440-41-7		
Iron, Dissolved	163	ug/L	20.0	1		10/09/18 22:15	7439-89-6		
Manganese, Dissolved	57.3	ug/L	10.0	1		10/09/18 22:15	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		10/09/18 22:15	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Acetone	<5.0	ug/L	5.0	1		10/11/18 13:14	67-64-1		
Benzene	<1.0	ug/L	1.0	1		10/11/18 13:14	71-43-2		
Bromobenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	108-86-1		
Bromochloromethane	<1.0	ug/L	1.0	1		10/11/18 13:14	74-97-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		10/11/18 13:14	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		10/11/18 13:14	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		10/11/18 13:14	74-83-9		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/11/18 13:14	78-93-3		
n-Butylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	104-51-8		
sec-Butylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	98-06-6		
Carbon disulfide	<1.0	ug/L	1.0	1		10/11/18 13:14	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/11/18 13:14	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	108-90-7		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		10/11/18 13:14	75-45-6	N3	
Chloroethane	<1.0	ug/L	1.0	1		10/11/18 13:14	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		10/11/18 13:14	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		10/11/18 13:14	74-87-3	CL	
2-Chlorotoluene	<1.0	ug/L	1.0	1		10/11/18 13:14	95-49-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		10/11/18 13:14	106-43-4		
Dibromochloromethane	<1.0	ug/L	1.0	1		10/11/18 13:14	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		10/11/18 13:14	106-93-4		
Dibromomethane	<1.0	ug/L	1.0	1		10/11/18 13:14	74-95-3		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	541-73-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		10/11/18 13:14	110-57-6		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/11/18 13:14	75-71-8	CL	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/11/18 13:14	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/11/18 13:14	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/11/18 13:14	75-35-4		
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/11/18 13:14	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/11/18 13:14	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/11/18 13:14	78-87-5		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/11/18 13:14	142-28-9		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/11/18 13:14	594-20-7		

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ANALYTICAL RESULTS

Project: MONHTLY 10/4

Pace Project No.: 7066920

Sample: EFFLUENT#1		Lab ID: 7066920003		Collected: 10/04/18 12:28		Received: 10/04/18 13:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/11/18 13:14	563-58-6		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/11/18 13:14	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/11/18 13:14	10061-02-6		
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	105-05-5	N3	
Ethanol	<250	ug/L	250	1		10/11/18 13:14	64-17-5		
Ethylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	100-41-4		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		10/11/18 13:14	87-68-3		
2-Hexanone	<5.0	ug/L	5.0	1		10/11/18 13:14	591-78-6		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		10/11/18 13:14	98-82-8		
p-Isopropyltoluene	<1.0	ug/L	1.0	1		10/11/18 13:14	99-87-6		
Methylene Chloride	<1.0	ug/L	1.0	1		10/11/18 13:14	75-09-2		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/11/18 13:14	108-10-1		
n-Propylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	103-65-1		
Styrene	<1.0	ug/L	1.0	1		10/11/18 13:14	100-42-5		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/11/18 13:14	630-20-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/11/18 13:14	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		10/11/18 13:14	127-18-4		
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	95-93-2	N3	
Toluene	<1.0	ug/L	1.0	1		10/11/18 13:14	108-88-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	87-61-6		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/11/18 13:14	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/11/18 13:14	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		10/11/18 13:14	79-01-6		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		10/11/18 13:14	96-18-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	95-63-6		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		10/11/18 13:14	108-67-8		
Vinyl chloride	<1.0	ug/L	1.0	1		10/11/18 13:14	75-01-4	CL	
Xylene (Total)	<3.0	ug/L	3.0	1		10/11/18 13:14	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		10/11/18 13:14	17060-07-0		
4-Bromofluorobenzene (S)	98	%	79-124	1		10/11/18 13:14	460-00-4		
Toluene-d8 (S)	93	%	69-124	1		10/11/18 13:14	2037-26-5		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	128	mg/L	10.0	1		10/09/18 14:07			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONHTLY 10/4

Pace Project No.: 7066920

QC Batch:	86073	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	7066920001, 7066920002, 7066920003		

METHOD BLANK: 395923 Matrix: Water

Associated Lab Samples: 7066920001, 7066920002, 7066920003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	5.0	10/09/18 21:26	
Iron, Dissolved	ug/L	<20.0	20.0	10/09/18 21:26	
Manganese, Dissolved	ug/L	<10.0	10.0	10/09/18 21:26	
Zinc, Dissolved	ug/L	<20.0	20.0	10/09/18 21:26	

LABORATORY CONTROL SAMPLE: 395924

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	50	50.4	101	85-115	
Iron, Dissolved	ug/L	2000	1970	98	85-115	
Manganese, Dissolved	ug/L	250	247	99	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

MATRIX SPIKE SAMPLE: 395927

Parameter	Units	7066980001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	50	51.0	102	70-130	
Iron, Dissolved	ug/L	1400	2000	3430	101	70-130	
Manganese, Dissolved	ug/L	279	250	533	102	70-130	
Zinc, Dissolved	ug/L	434	1000	1470	104	70-130	

SAMPLE DUPLICATE: 395926

Parameter	Units	7066980001 Result	Dup Result	RPD	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	<5.0		
Iron, Dissolved	ug/L	1400	1490	6	
Manganese, Dissolved	ug/L	279	293	5	
Zinc, Dissolved	ug/L	434	448	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONHTLY 10/4

Pace Project No.: 7066920

QC Batch: 86225 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7066920001, 7066920002, 7066920003

METHOD BLANK: 396534 Matrix: Water

Associated Lab Samples: 7066920001, 7066920002, 7066920003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium	ug/L	<5.0	5.0	10/09/18 22:38	
Iron	ug/L	<20.0	20.0	10/09/18 22:38	
Manganese	ug/L	<10.0	10.0	10/09/18 22:38	
Zinc	ug/L	<20.0	20.0	10/09/18 22:38	

LABORATORY CONTROL SAMPLE: 396535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	50	48.1	96	85-115	
Iron	ug/L	2000	1940	97	85-115	
Manganese	ug/L	250	229	92	85-115	
Zinc	ug/L	1000	1030	103	85-115	

MATRIX SPIKE SAMPLE: 396537

Parameter	Units	7066979001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	45.4	91	70-130	
Iron	ug/L	5420	2000	7040	81	70-130	
Manganese	ug/L	268	250	484	86	70-130	
Zinc	ug/L	499	1000	1480	98	70-130	

SAMPLE DUPLICATE: 396536

Parameter	Units	7066979001 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	5420	5530	2	
Manganese	ug/L	268	263	2	
Zinc	ug/L	499	497	0	

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QUALITY CONTROL DATA

Project: MONHTLY 10/4

Pace Project No.: 7066920

QC Batch:	86604	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
Associated Lab Samples:	7066920001, 7066920002, 7066920003		

METHOD BLANK: 398576 Matrix: Water

Associated Lab Samples: 7066920001, 7066920002, 7066920003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	10/11/18 12:21	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/11/18 12:21	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	10/11/18 12:21	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	10/11/18 12:21	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/11/18 12:21	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/11/18 12:21	
1,1-Dichloropropene	ug/L	<1.0	1.0	10/11/18 12:21	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	10/11/18 12:21	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	10/11/18 12:21	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	10/11/18 12:21	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	10/11/18 12:21	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	10/11/18 12:21	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/11/18 12:21	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/11/18 12:21	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	10/11/18 12:21	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	10/11/18 12:21	
1,3-Dichloropropane	ug/L	<1.0	1.0	10/11/18 12:21	
1,4-Diethylbenzene	ug/L	<1.0	1.0	10/11/18 12:21	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	10/11/18 12:21	
2-Butanone (MEK)	ug/L	<5.0	5.0	10/11/18 12:21	
2-Chlorotoluene	ug/L	<1.0	1.0	10/11/18 12:21	
2-Hexanone	ug/L	<5.0	5.0	10/11/18 12:21	
4-Chlorotoluene	ug/L	<1.0	1.0	10/11/18 12:21	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	10/11/18 12:21	
Acetone	ug/L	<5.0	5.0	10/11/18 12:21	
Benzene	ug/L	<1.0	1.0	10/11/18 12:21	
Bromobenzene	ug/L	<1.0	1.0	10/11/18 12:21	
Bromochloromethane	ug/L	<1.0	1.0	10/11/18 12:21	
Bromodichloromethane	ug/L	<1.0	1.0	10/11/18 12:21	
Bromoform	ug/L	<1.0	1.0	10/11/18 12:21	
Bromomethane	ug/L	<1.0	1.0	10/11/18 12:21	
Carbon disulfide	ug/L	<1.0	1.0	10/11/18 12:21	
Carbon tetrachloride	ug/L	<1.0	1.0	10/11/18 12:21	
Chlorobenzene	ug/L	<1.0	1.0	10/11/18 12:21	
Chlorodifluoromethane	ug/L	<1.0	1.0	10/11/18 12:21	N3
Chloroethane	ug/L	<1.0	1.0	10/11/18 12:21	
Chloroform	ug/L	<1.0	1.0	10/11/18 12:21	
Chloromethane	ug/L	<1.0	1.0	10/11/18 12:21	CL
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	10/11/18 12:21	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	10/11/18 12:21	
Dibromochloromethane	ug/L	<1.0	1.0	10/11/18 12:21	

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QUALITY CONTROL DATA

Project: MONHTLY 10/4

Pace Project No.: 7066920

METHOD BLANK: 398576

Matrix: Water

Associated Lab Samples: 7066920001, 7066920002, 7066920003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	10/11/18 12:21	CL
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/11/18 12:21	
Ethanol	ug/L	<250	250	10/11/18 12:21	
Ethylbenzene	ug/L	<1.0	1.0	10/11/18 12:21	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	10/11/18 12:21	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	10/11/18 12:21	
Methylene Chloride	ug/L	<1.0	1.0	10/11/18 12:21	
n-Butylbenzene	ug/L	<1.0	1.0	10/11/18 12:21	
n-Propylbenzene	ug/L	<1.0	1.0	10/11/18 12:21	
p-Isopropyltoluene	ug/L	<1.0	1.0	10/11/18 12:21	
sec-Butylbenzene	ug/L	<1.0	1.0	10/11/18 12:21	
Styrene	ug/L	<1.0	1.0	10/11/18 12:21	
tert-Butylbenzene	ug/L	<1.0	1.0	10/11/18 12:21	
Tetrachloroethene	ug/L	<1.0	1.0	10/11/18 12:21	
Toluene	ug/L	<1.0	1.0	10/11/18 12:21	CL
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	10/11/18 12:21	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	10/11/18 12:21	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	10/11/18 12:21	
Trichloroethene	ug/L	<1.0	1.0	10/11/18 12:21	
Vinyl chloride	ug/L	<1.0	1.0	10/11/18 12:21	
Xylene (Total)	ug/L	<3.0	3.0	10/11/18 12:21	
1,2-Dichloroethane-d4 (S)	%	104	68-153	10/11/18 12:21	
4-Bromofluorobenzene (S)	%	99	79-124	10/11/18 12:21	
Toluene-d8 (S)	%	94	69-124	10/11/18 12:21	

LABORATORY CONTROL SAMPLE: 398577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.6	91	74-113	
1,1,1-Trichloroethane	ug/L	50	45.9	92	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	40.7	81	74-121	
1,1,2-Trichloroethane	ug/L	50	48.1	96	80-117	
1,1-Dichloroethane	ug/L	50	49.0	98	83-151	
1,1-Dichloroethene	ug/L	50	40.9	82	45-146	
1,1-Dichloropropene	ug/L	50	45.1	90	59-127	
1,2,3-Trichlorobenzene	ug/L	50	43.6	87	67-103	
1,2,3-Trichloropropane	ug/L	50	44.4	89	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	44.5	89	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	43.2	86	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	83-115	
1,2-Dichloroethane	ug/L	50	54.7	109	74-129	
1,2-Dichloropropane	ug/L	50	48.0	96	75-117	
1,3,5-Trimethylbenzene	ug/L	50	43.5	87	67-116	
1,3-Dichlorobenzene	ug/L	50	45.6	91	71-112	

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QUALITY CONTROL DATA

Project: MONHTLY 10/4

Pace Project No.: 7066920

LABORATORY CONTROL SAMPLE: 398577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	44.5	89	74-112	
1,4-Diethylbenzene	ug/L	50	44.4	89	56-130	N3
2,2-Dichloropropane	ug/L	50	48.0	96	63-133	
2-Butanone (MEK)	ug/L	50	51.8	104	44-162	
2-Chlorotoluene	ug/L	50	41.7	83	74-101	
2-Hexanone	ug/L	50	48.8	98	32-183	
4-Chlorotoluene	ug/L	50	41.6	83	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.4	103	69-132	
Acetone	ug/L	50	61.1	122	23-188	CH,IH
Benzene	ug/L	50	47.2	94	73-119	
Bromobenzene	ug/L	50	44.8	90	72-102	
Bromochloromethane	ug/L	50	50.1	100	81-116	
Bromodichloromethane	ug/L	50	45.6	91	78-117	
Bromoform	ug/L	50	47.8	96	65-122	
Bromomethane	ug/L	50	39.5	79	52-147	
Carbon disulfide	ug/L	50	50.9	102	41-144	
Carbon tetrachloride	ug/L	50	42.3	85	59-120	
Chlorobenzene	ug/L	50	46.7	93	75-113	
Chlorodifluoromethane	ug/L	50	40.2	80	43-140	N3
Chloroethane	ug/L	50	45.5	91	49-151	
Chloroform	ug/L	50	50.3	101	72-122	
Chloromethane	ug/L	50	35.8	72	46-144	CL
cis-1,2-Dichloroethene	ug/L	50	51.5	103	72-121	
cis-1,3-Dichloropropene	ug/L	50	48.5	97	78-116	
Dibromochloromethane	ug/L	50	45.3	91	70-120	
Dibromomethane	ug/L	50	48.1	96	75-125	
Dichlorodifluoromethane	ug/L	50	30.2	60	22-154	CL
Ethanol	ug/L	1250	946	76	10-151	
Ethylbenzene	ug/L	50	47.0	94	70-113	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	59-121	
Isopropylbenzene (Cumene)	ug/L	50	41.9	84	67-115	
Methylene Chloride	ug/L	50	56.7	113	61-142	
n-Butylbenzene	ug/L	50	43.0	86	73-107	
n-Propylbenzene	ug/L	50	42.2	84	68-116	
p-Isopropyltoluene	ug/L	50	41.1	82	73-101	
sec-Butylbenzene	ug/L	50	42.5	85	72-103	
Styrene	ug/L	50	48.1	96	72-118	
tert-Butylbenzene	ug/L	50	42.5	85	68-100	
Tetrachloroethene	ug/L	50	47.3	95	60-128	
Toluene	ug/L	50	47.4	95	72-119	
trans-1,2-Dichloroethene	ug/L	50	50.1	100	56-142	
trans-1,3-Dichloropropene	ug/L	50	49.1	98	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	55.5	111	71-121	
Trichloroethene	ug/L	50	46.3	93	69-117	
Vinyl chloride	ug/L	50	38.1	76	43-143	CL
Xylene (Total)	ug/L	150	142	95	71-109	
1,2-Dichloroethane-d4 (S)	%			101	68-153	

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QUALITY CONTROL DATA

Project: MONHTLY 10/4

Pace Project No.: 7066920

LABORATORY CONTROL SAMPLE: 398577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			104	79-124	
Toluene-d8 (S)	%			94	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 398578 398579

Parameter	Units	7067121002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	45.3	48.2	91	96	74-113	6	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	47.1	52.2	94	104	65-118	10	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	39.4	42.1	79	84	74-121	6	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	47.2	52.5	94	105	80-117	11	
1,1-Dichloroethane	ug/L	<1.0	50	50	48.0	54.8	96	110	83-151	13	
1,1-Dichloroethene	ug/L	<1.0	50	50	39.2	45.4	78	91	45-146	15	
1,1-Dichloropropene	ug/L	<1.0	50	50	47.4	51.2	95	102	59-127	8	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	39.8	44.5	80	89	67-103	11	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	39.8	44.0	80	88	71-123	10	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	50	41.8	45.7	84	91	66-103	9 N3	
1,2,4-Trimethylbenzene	ug/L	<1.0	50	50	41.5	46.1	83	92	68-116	10	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	48.4	54.5	97	109	83-115	12	
1,2-Dichloroethane	ug/L	<1.0	50	50	53.3	59.2	107	118	74-129	10	
1,2-Dichloropropane	ug/L	<1.0	50	50	48.6	51.7	97	103	75-117	6	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	50	42.2	47.0	84	94	67-116	11	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	43.3	47.6	87	95	71-112	9	
1,3-Dichloropropane	ug/L	<1.0	50	50	42.8	46.0	86	92	74-112	7	
1,4-Diethylbenzene	ug/L	<1.0	50	50	43.1	47.7	86	95	56-130	10 N3	
2,2-Dichloropropane	ug/L	<1.0	50	50	46.8	53.9	94	108	63-133	14	
2-Butanone (MEK)	ug/L	<5.0	50	50	47.9	54.2	96	108	44-162	12	
2-Chlorotoluene	ug/L	<1.0	50	50	41.2	45.2	82	90	74-101	9	
2-Hexanone	ug/L	<5.0	50	50	48.0	50.5	96	101	32-183	5	
4-Chlorotoluene	ug/L	<1.0	50	50	40.8	46.0	82	92	74-101	12	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	48.4	53.9	97	108	69-132	11	
Acetone	ug/L	<5.0	50	50	58.6	66.6	117	133	23-188	13 CH,IH	
Benzene	ug/L	<1.0	50	50	48.0	52.2	96	104	73-119	8	
Bromobenzene	ug/L	<1.0	50	50	41.1	45.7	82	91	72-102	11	
Bromochloromethane	ug/L	<1.0	50	50	47.6	52.5	95	105	81-116	10	
Bromodichloromethane	ug/L	<1.0	50	50	44.4	48.2	89	96	78-117	8	
Bromoform	ug/L	<1.0	50	50	41.6	45.2	83	90	65-122	8	
Bromomethane	ug/L	<1.0	50	50	32.8	44.0	66	88	52-147	29 R1	
Carbon disulfide	ug/L	<1.0	50	50	49.7	56.4	99	113	41-144	13	
Carbon tetrachloride	ug/L	<1.0	50	50	43.5	46.9	87	94	59-120	8	
Chlorobenzene	ug/L	<1.0	50	50	46.8	49.8	94	100	75-113	6	
Chlorodifluoromethane	ug/L	<1.0	50	50	37.3	42.7	75	85	43-140	14 N3	
Chloroethane	ug/L	<1.0	50	50	44.3	48.5	89	97	49-151	9	
Chloroform	ug/L	<1.0	50	50	50.9	56.3	102	113	72-122	10	
Chloromethane	ug/L	<1.0	50	50	29.1	34.5	58	69	46-144	17 CL	

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QUALITY CONTROL DATA

Project: MONHTLY 10/4

Pace Project No.: 7066920

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 398578 398579											
Parameter	Units	7067121002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	50.8	58.3	102	117	72-121	14	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	46.1	50.3	92	101	78-116	9	
Dibromochloromethane	ug/L	<1.0	50	50	41.8	44.7	84	89	70-120	7	
Dibromomethane	ug/L	<1.0	50	50	48.5	52.1	97	104	75-125	7	
Dichlorodifluoromethane	ug/L	<1.0	50	50	21.6	23.7	43	47	22-154	10	CL
Ethanol	ug/L	<250	1250	1250	1220	1490	98	119	10-151	20	
Ethylbenzene	ug/L	<1.0	50	50	47.2	50.5	94	101	70-113	7	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	36.3	38.2	73	76	59-121	5	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	40.9	46.0	82	92	67-115	12	
Methylene Chloride	ug/L	<1.0	50	50	55.3	60.1	111	120	61-142	8	
n-Butylbenzene	ug/L	<1.0	50	50	42.7	46.9	85	94	73-107	9	
n-Propylbenzene	ug/L	<1.0	50	50	41.2	46.2	82	92	68-116	11	
p-Isopropyltoluene	ug/L	<1.0	50	50	39.9	44.5	80	89	73-101	11	
sec-Butylbenzene	ug/L	<1.0	50	50	42.5	46.8	85	94	72-103	10	
Styrene	ug/L	<1.0	50	50	46.1	50.3	92	101	72-118	9	
tert-Butylbenzene	ug/L	<1.0	50	50	42.2	46.3	84	93	68-100	9	
Tetrachloroethene	ug/L	<1.0	50	50	45.1	49.9	90	100	60-128	10	
Toluene	ug/L	<1.0	50	50	48.1	52.4	96	105	72-119	9	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	49.2	56.9	98	114	56-142	15	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	47.9	52.8	96	106	79-116	10	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	42.4	45.9	85	92	71-121	8	
Trichloroethene	ug/L	<1.0	50	50	48.8	52.0	98	104	69-117	6	
Vinyl chloride	ug/L	<1.0	50	50	34.9	39.3	70	79	43-143	12	CL
Xylene (Total)	ug/L	<3.0	150	150	143	154	95	103	71-109	8	
1,2-Dichloroethane-d4 (S)	%						103	104	68-153		
4-Bromofluorobenzene (S)	%						106	104	79-124		
Toluene-d8 (S)	%						96	93	69-124		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 398755 398756											
Parameter	Units	7067092007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	46.7	45.3	93	91	74-113	3	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	50.7	49.1	101	98	65-118	3	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	40.9	41.2	82	82	74-121	1	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	50.3	49.4	101	99	80-117	2	
1,1-Dichloroethane	ug/L	<1.0	50	50	51.1	49.6	102	99	83-151	3	
1,1-Dichloroethene	ug/L	<1.0	50	50	42.2	42.5	84	85	45-146	1	
1,1-Dichloropropene	ug/L	<1.0	50	50	50.4	49.4	101	99	59-127	2	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	44.2	42.8	88	86	67-103	3	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	44.1	44.1	88	88	71-123	0	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	50	50	44.0	43.6	88	87	66-103	1	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	50	50	44.8	43.8	90	88	68-116	2	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	52.2	50.6	104	101	83-115	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONHTLY 10/4

Pace Project No.: 7066920

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 398755 398756											
Parameter	Units	7067092007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane	ug/L	<1.0	50	50	56.1	56.6	112	113	74-129	1	
1,2-Dichloropropane	ug/L	<1.0	50	50	51.0	47.9	102	96	75-117	6	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	50	45.6	43.5	91	87	67-116	5	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	45.9	44.1	92	88	71-112	4	
1,3-Dichloropropane	ug/L	<1.0	50	50	45.5	44.8	91	90	74-112	1	
1,4-Diethylbenzene	ug/L	<1.0	50	50	45.8	44.3	92	89	56-130	3	N3
2,2-Dichloropropane	ug/L	<1.0	50	50	50.6	49.1	101	98	63-133	3	
2-Butanone (MEK)	ug/L	<5.0	50	50	52.6	54.5	105	109	44-162	3	
2-Chlorotoluene	ug/L	<1.0	50	50	43.1	42.4	86	85	74-101	2	
2-Hexanone	ug/L	<5.0	50	50	50.5	51.7	101	103	32-183	2	
4-Chlorotoluene	ug/L	<1.0	50	50	44.0	42.3	88	85	74-101	4	
4-Methyl-2-pentanone (MIBK)	ug/L	1.1J	50	50	53.7	53.7	105	105	69-132	0	
Acetone	ug/L	4.0J	50	50	71.7	62.4	135	117	23-188	14	CH,IH
Benzene	ug/L	<1.0	50	50	50.7	49.0	101	98	73-119	3	
Bromobenzene	ug/L	<1.0	50	50	44.8	43.2	90	86	72-102	4	
Bromochloromethane	ug/L	<1.0	50	50	48.8	48.6	98	97	81-116	0	
Bromodichloromethane	ug/L	<1.0	50	50	48.2	46.9	96	94	78-117	3	
Bromoform	ug/L	<1.0	50	50	45.3	44.9	91	90	65-122	1	
Bromomethane	ug/L	<1.0	50	50	39.7	40.4	79	81	52-147	2	
Carbon disulfide	ug/L	<1.0	50	50	53.3	52.1	107	104	41-144	2	
Carbon tetrachloride	ug/L	<1.0	50	50	47.0	45.0	94	90	59-120	4	
Chlorobenzene	ug/L	<1.0	50	50	48.8	47.3	98	95	75-113	3	
Chlorodifluoromethane	ug/L	5.0	50	50	42.2	41.8	74	74	43-140	1	N3
Chloroethane	ug/L	<1.0	50	50	46.0	45.2	92	90	49-151	2	
Chloroform	ug/L	<1.0	50	50	53.3	52.7	107	105	72-122	1	
Chloromethane	ug/L	<1.0	50	50	30.0	30.5	60	61	46-144	2	CL
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	54.7	52.7	109	105	72-121	4	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	48.8	48.3	98	97	78-116	1	
Dibromochloromethane	ug/L	<1.0	50	50	45.4	44.8	91	90	70-120	1	
Dibromomethane	ug/L	<1.0	50	50	50.6	48.9	101	98	75-125	3	
Dichlorodifluoromethane	ug/L	<1.0	50	50	20.1	20.2	40	40	22-154	0	CL
Ethanol	ug/L	<250	1250	1250	1490	1360	120	109	10-151	9	
Ethylbenzene	ug/L	<1.0	50	50	50.7	47.8	101	96	70-113	6	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	37.7	37.1	75	74	59-121	2	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	44.2	42.7	88	85	67-115	3	
Methylene Chloride	ug/L	<1.0	50	50	58.9	55.5	118	111	61-142	6	
n-Butylbenzene	ug/L	<1.0	50	50	44.2	43.8	88	88	73-107	1	
n-Propylbenzene	ug/L	<1.0	50	50	44.1	42.9	88	86	68-116	3	
p-Isopropyltoluene	ug/L	<1.0	50	50	42.6	41.5	85	83	73-101	3	
sec-Butylbenzene	ug/L	<1.0	50	50	44.6	43.8	89	88	72-103	2	
Styrene	ug/L	<1.0	50	50	50.9	48.6	102	97	72-118	5	
tert-Butylbenzene	ug/L	<1.0	50	50	44.8	43.6	90	87	68-100	3	
Tetrachloroethene	ug/L	<1.0	50	50	48.2	46.6	96	93	60-128	3	
Toluene	ug/L	<1.0	50	50	50.9	49.3	102	99	72-119	3	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	53.6	51.9	107	104	56-142	3	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	51.2	51.0	102	102	79-116	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONHTLY 10/4

Pace Project No.: 7066920

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 398755 398756											
Parameter	Units	7067092007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	41.3	42.4	83	85	71-121	3	
Trichloroethene	ug/L	<1.0	50	50	50.0	49.6	100	99	69-117	1	
Vinyl chloride	ug/L	<1.0	50	50	37.0	36.8	74	74	43-143	0 CL	
Xylene (Total)	ug/L	<3.0	150	150	151	144	101	96	71-109	4	
1,2-Dichloroethane-d4 (S)	%						101	100	68-153		
4-Bromofluorobenzene (S)	%						102	106	79-124		
Toluene-d8 (S)	%						91	93	69-124		

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QUALITY CONTROL DATA

Project: MONHTLY 10/4

Pace Project No.: 7066920

QC Batch:	86198	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	7066920001, 7066920002, 7066920003		

METHOD BLANK: 396421 Matrix: Water

Associated Lab Samples: 7066920001, 7066920002, 7066920003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	10/09/18 13:56	

LABORATORY CONTROL SAMPLE: 396422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	498	100	85-115	

MATRIX SPIKE SAMPLE: 396424

Parameter	Units	7066845002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	380	300	726	115	75-125	

MATRIX SPIKE SAMPLE: 396426

Parameter	Units	7066961006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	24.0	300	323	100	75-125	

SAMPLE DUPLICATE: 396423

Parameter	Units	7066845002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	380	392	3	

SAMPLE DUPLICATE: 396425

Parameter	Units	7066961006 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	24.0	26.0	8 D6	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MONHTLY 10/4

Pace Project No.: 7066920

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MONHTLY 10/4

Pace Project No.: 7066920

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7066920001	INFLUENT#1	EPA 200.7	86225	EPA 200.7	86236
7066920002	INFLUENT#2	EPA 200.7	86225	EPA 200.7	86236
7066920003	EFFLUENT#1	EPA 200.7	86225	EPA 200.7	86236
7066920001	INFLUENT#1	EPA 200.7	86073		
7066920002	INFLUENT#2	EPA 200.7	86073		
7066920003	EFFLUENT#1	EPA 200.7	86073		
7066920001	INFLUENT#1	EPA 8260C/5030C	86604		
7066920002	INFLUENT#2	EPA 8260C/5030C	86604		
7066920003	EFFLUENT#1	EPA 8260C/5030C	86604		
7066920001	INFLUENT#1	SM22 2540C	86198		
7066920002	INFLUENT#2	SM22 2540C	86198		
7066920003	EFFLUENT#1	SM22 2540C	86198		

REPORT OF LABORATORY ANALYSIS

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WO#: 7066920

Section CSection BSection A

Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Fairchild Corporation	Report To:	Peet Landwater	Attention:	
Address:	136 Garza Blvd	Copy To:		Company Name:	
	Farmingdale, NY 117351420			Address:	
Email:	peet@landwater.com	Purchase Order #:		Price Quote:	
Phone:	NONE	Project Name:	MONTHLY	Pace Project Manager:	john.stanton@pacelabs.com.
Requested Due Date:	131-377-7310 Fax	Project #:		Pace Profile #:	
				State / Location	
				NY	
				Regulatory Agency	

[illegible][illegible]

SAMPLER NAME AND SIGNATURE		TEMP in C		Received on		Custody		Sealed		Cooler		Y/N		Samples		Y/N	
PRINT Name of SAMPLER:																DATE Signed:	
Judson Fellows																10/4/18	
SIGNATURE of SAMPLER:																	
																	



Sample Condition Upon Receipt

Client Name:

FAIR

Project #

WO#: 7066920

PM: JDS Due Date: 10/15/18

CLIENT: FAIR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: 0.0

Cooler Temperature (°C): 2.9

Cooler Temperature Corrected (°C): 2.9

Temperature Blank Present: ☐ Yes ☐ No

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents: [Signature] 10/14/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☒ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	
Containers Intact:	☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests	☐ Yes ☒ No ☐ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix SL WY OIL		
All containers needing preservation have been checked	☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # HC857H06		Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water), Per Method, VOA pH is checked after analysis		Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
KI starch test strips Lot #		
Residual chlorine strips Lot #		Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

November 26, 2018

Paul Lanzillotta
Wire to Water Electrical Contractors
136 Gazza Blvd.
Farmingdale, NY 117351420

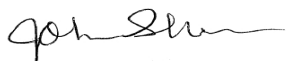
RE: Project: MONTHLY-11/13
Pace Project No.: 7070928

Dear Paul Lanzillotta:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: James, Wire to Water Electrical Contractors
Caroline Mendoza, Fairchild Corporation
Stuart Skopicki, Wire to Water Electrical Contractors



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MONTHLY-11/13

Pace Project No.: 7070928

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-11/13

Pace Project No.: 7070928

Sample: INFLUENT #1		Lab ID: 7070928001		Collected: 11/13/18 15:10		Received: 11/13/18 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	11/16/18 10:05	11/19/18 12:51	7440-41-7		
Iron	762	ug/L	100	1	11/16/18 10:05	11/19/18 12:51	7439-89-6		
Manganese	79.9	ug/L	10.0	1	11/16/18 10:05	11/19/18 12:51	7439-96-5		
Zinc	36.1	ug/L	20.0	1	11/16/18 10:05	11/19/18 12:51	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		11/21/18 00:00	7440-41-7		
Iron, Dissolved	654	ug/L	20.0	1		11/21/18 00:00	7439-89-6		
Manganese, Dissolved	78.7	ug/L	10.0	1		11/21/18 00:00	7439-96-5		
Zinc, Dissolved	38.2	ug/L	20.0	1		11/21/18 00:00	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Acetone	<5.0	ug/L	5.0	1		11/20/18 17:38	67-64-1		
Benzene	1.8	ug/L	1.0	1		11/20/18 17:38	71-43-2		
Bromobenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	108-86-1		
Bromochloromethane	<1.0	ug/L	1.0	1		11/20/18 17:38	74-97-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/20/18 17:38	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		11/20/18 17:38	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		11/20/18 17:38	74-83-9		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/20/18 17:38	78-93-3		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	104-51-8		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	98-06-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/20/18 17:38	75-15-0	CL	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/20/18 17:38	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	108-90-7		
Chlorodifluoromethane	1.1	ug/L	1.0	1		11/20/18 17:38	75-45-6	N3	
Chloroethane	<1.0	ug/L	1.0	1		11/20/18 17:38	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		11/20/18 17:38	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		11/20/18 17:38	74-87-3		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/20/18 17:38	95-49-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/20/18 17:38	106-43-4		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/20/18 17:38	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/20/18 17:38	106-93-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/20/18 17:38	74-95-3		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	541-73-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/20/18 17:38	110-57-6		
Dichlorodifluoromethane	1.3	ug/L	1.0	1		11/20/18 17:38	75-71-8		
1,1-Dichloroethane	14.7	ug/L	1.0	1		11/20/18 17:38	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:38	107-06-2		
1,1-Dichloroethene	5.7	ug/L	1.0	1		11/20/18 17:38	75-35-4	CL	
cis-1,2-Dichloroethene	186	ug/L	1.0	1		11/20/18 17:38	156-59-2	CL	
trans-1,2-Dichloroethene	1.5	ug/L	1.0	1		11/20/18 17:38	156-60-5	CL	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:38	78-87-5		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:38	142-28-9		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:38	594-20-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-11/13

Pace Project No.: 7070928

Sample: INFLUENT #1		Lab ID: 7070928001		Collected: 11/13/18 15:10		Received: 11/13/18 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/20/18 17:38	563-58-6		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/20/18 17:38	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/20/18 17:38	10061-02-6		
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	105-05-5	N3	
Ethanol	<250	ug/L	250	1		11/20/18 17:38	64-17-5		
Ethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	100-41-4		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/20/18 17:38	87-68-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/20/18 17:38	591-78-6		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/20/18 17:38	98-82-8		
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/20/18 17:38	99-87-6		
Methylene Chloride	<1.0	ug/L	1.0	1		11/20/18 17:38	75-09-2	CL	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/20/18 17:38	108-10-1	L1	
n-Propylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	103-65-1		
Styrene	<1.0	ug/L	1.0	1		11/20/18 17:38	100-42-5		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/20/18 17:38	630-20-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/20/18 17:38	79-34-5		
Tetrachloroethene	800	ug/L	10.0	10		11/20/18 17:57	127-18-4	CH	
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	95-93-2	N3	
Toluene	<1.0	ug/L	1.0	1		11/20/18 17:38	108-88-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	87-61-6		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:38	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:38	79-00-5		
Trichloroethene	126	ug/L	1.0	1		11/20/18 17:38	79-01-6		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:38	96-18-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	95-63-6		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:38	108-67-8		
Vinyl chloride	23.0	ug/L	1.0	1		11/20/18 17:38	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/20/18 17:38	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	116	%	68-153	1		11/20/18 17:38	17060-07-0		
4-Bromofluorobenzene (S)	97	%	79-124	1		11/20/18 17:38	460-00-4		
Toluene-d8 (S)	98	%	69-124	1		11/20/18 17:38	2037-26-5		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	121	mg/L	10.0	1		11/19/18 14:52			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY-11/13

Pace Project No.: 7070928

Sample: INFLUENT #2		Lab ID: 7070928002		Collected: 11/13/18 15:25		Received: 11/13/18 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	11/16/18 10:05	11/19/18 12:52	7440-41-7		
Iron	713	ug/L	100	1	11/16/18 10:05	11/19/18 12:52	7439-89-6		
Manganese	79.8	ug/L	10.0	1	11/16/18 10:05	11/19/18 12:52	7439-96-5		
Zinc	20.7	ug/L	20.0	1	11/16/18 10:05	11/19/18 12:52	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		11/21/18 00:17	7440-41-7		
Iron, Dissolved	512	ug/L	20.0	1		11/21/18 00:17	7439-89-6		
Manganese, Dissolved	78.3	ug/L	10.0	1		11/21/18 00:17	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		11/21/18 00:17	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Acetone	<5.0	ug/L	5.0	1		11/20/18 17:20	67-64-1		
Benzene	<1.0	ug/L	1.0	1		11/20/18 17:20	71-43-2		
Bromobenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	108-86-1		
Bromochloromethane	<1.0	ug/L	1.0	1		11/20/18 17:20	74-97-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/20/18 17:20	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		11/20/18 17:20	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		11/20/18 17:20	74-83-9		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/20/18 17:20	78-93-3		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	104-51-8		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	98-06-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/20/18 17:20	75-15-0	CL	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/20/18 17:20	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	108-90-7		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/20/18 17:20	75-45-6	N3	
Chloroethane	<1.0	ug/L	1.0	1		11/20/18 17:20	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		11/20/18 17:20	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		11/20/18 17:20	74-87-3		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/20/18 17:20	95-49-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/20/18 17:20	106-43-4		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/20/18 17:20	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/20/18 17:20	106-93-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/20/18 17:20	74-95-3		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	541-73-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/20/18 17:20	110-57-6		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/20/18 17:20	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:20	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:20	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/20/18 17:20	75-35-4	CL	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/20/18 17:20	156-59-2	CL	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/20/18 17:20	156-60-5	CL	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:20	78-87-5		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:20	142-28-9		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:20	594-20-7		

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ANALYTICAL RESULTS

Project: MONTHLY-11/13

Pace Project No.: 7070928

Sample: INFLUENT #2		Lab ID: 7070928002		Collected: 11/13/18 15:25		Received: 11/13/18 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/20/18 17:20	563-58-6		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/20/18 17:20	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/20/18 17:20	10061-02-6		
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	105-05-5	N3	
Ethanol	<250	ug/L	250	1		11/20/18 17:20	64-17-5		
Ethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	100-41-4		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/20/18 17:20	87-68-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/20/18 17:20	591-78-6		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/20/18 17:20	98-82-8		
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/20/18 17:20	99-87-6		
Methylene Chloride	<1.0	ug/L	1.0	1		11/20/18 17:20	75-09-2	CL	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/20/18 17:20	108-10-1	L1	
n-Propylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	103-65-1		
Styrene	<1.0	ug/L	1.0	1		11/20/18 17:20	100-42-5		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/20/18 17:20	630-20-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/20/18 17:20	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/20/18 17:20	127-18-4		
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	95-93-2	N3	
Toluene	<1.0	ug/L	1.0	1		11/20/18 17:20	108-88-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	87-61-6		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:20	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:20	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		11/20/18 17:20	79-01-6		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:20	96-18-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	95-63-6		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:20	108-67-8		
Vinyl chloride	<1.0	ug/L	1.0	1		11/20/18 17:20	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/20/18 17:20	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	114	%	68-153	1		11/20/18 17:20	17060-07-0		
4-Bromofluorobenzene (S)	96	%	79-124	1		11/20/18 17:20	460-00-4		
Toluene-d8 (S)	98	%	69-124	1		11/20/18 17:20	2037-26-5		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	111	mg/L	10.0	1		11/19/18 14:52			

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ANALYTICAL RESULTS

Project: MONTHLY-11/13

Pace Project No.: 7070928

Sample: EFFLUENT #1		Lab ID: 7070928003		Collected: 11/13/18 15:40		Received: 11/13/18 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Beryllium	<5.0	ug/L	5.0	1	11/16/18 10:05	11/19/18 12:53	7440-41-7		
Iron	692	ug/L	100	1	11/16/18 10:05	11/19/18 12:53	7439-89-6		
Manganese	78.9	ug/L	10.0	1	11/16/18 10:05	11/19/18 12:53	7439-96-5		
Zinc	<20.0	ug/L	20.0	1	11/16/18 10:05	11/19/18 12:53	7440-66-6		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7							
Beryllium, Dissolved	<5.0	ug/L	5.0	1		11/21/18 00:22	7440-41-7		
Iron, Dissolved	396	ug/L	20.0	1		11/21/18 00:22	7439-89-6		
Manganese, Dissolved	78.2	ug/L	10.0	1		11/21/18 00:22	7439-96-5		
Zinc, Dissolved	<20.0	ug/L	20.0	1		11/21/18 00:22	7440-66-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
Acetone	<5.0	ug/L	5.0	1		11/20/18 17:02	67-64-1	IH	
Benzene	<1.0	ug/L	1.0	1		11/20/18 17:02	71-43-2		
Bromobenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	108-86-1		
Bromochloromethane	<1.0	ug/L	1.0	1		11/20/18 17:02	74-97-5		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/20/18 17:02	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		11/20/18 17:02	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		11/20/18 17:02	74-83-9		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/20/18 17:02	78-93-3		
n-Butylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	104-51-8		
sec-Butylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	135-98-8		
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	98-06-6		
Carbon disulfide	<1.0	ug/L	1.0	1		11/20/18 17:02	75-15-0	CL	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/20/18 17:02	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	108-90-7		
Chlorodifluoromethane	<1.0	ug/L	1.0	1		11/20/18 17:02	75-45-6	N3	
Chloroethane	<1.0	ug/L	1.0	1		11/20/18 17:02	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		11/20/18 17:02	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		11/20/18 17:02	74-87-3		
2-Chlorotoluene	<1.0	ug/L	1.0	1		11/20/18 17:02	95-49-8		
4-Chlorotoluene	<1.0	ug/L	1.0	1		11/20/18 17:02	106-43-4		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/20/18 17:02	124-48-1		
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		11/20/18 17:02	106-93-4		
Dibromomethane	<1.0	ug/L	1.0	1		11/20/18 17:02	74-95-3		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	541-73-1		
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		11/20/18 17:02	110-57-6		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/20/18 17:02	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:02	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:02	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/20/18 17:02	75-35-4	CL	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/20/18 17:02	156-59-2	CL	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/20/18 17:02	156-60-5	CL	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:02	78-87-5		
1,3-Dichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:02	142-28-9		
2,2-Dichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:02	594-20-7		

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ANALYTICAL RESULTS

Project: MONTHLY-11/13

Pace Project No.: 7070928

Sample: EFFLUENT #1		Lab ID: 7070928003		Collected: 11/13/18 15:40		Received: 11/13/18 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C							
1,1-Dichloropropene	<1.0	ug/L	1.0	1		11/20/18 17:02	563-58-6		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/20/18 17:02	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/20/18 17:02	10061-02-6		
1,4-Diethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	105-05-5	N3	
Ethanol	<250	ug/L	250	1		11/20/18 17:02	64-17-5		
Ethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	100-41-4		
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		11/20/18 17:02	87-68-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/20/18 17:02	591-78-6		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/20/18 17:02	98-82-8		
p-Isopropyltoluene	<1.0	ug/L	1.0	1		11/20/18 17:02	99-87-6		
Methylene Chloride	<1.0	ug/L	1.0	1		11/20/18 17:02	75-09-2	CL	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/20/18 17:02	108-10-1	L1	
n-Propylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	103-65-1		
Styrene	<1.0	ug/L	1.0	1		11/20/18 17:02	100-42-5		
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/20/18 17:02	630-20-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/20/18 17:02	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/20/18 17:02	127-18-4		
1,2,4,5-tetramethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	95-93-2	N3	
Toluene	<1.0	ug/L	1.0	1		11/20/18 17:02	108-88-3		
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	87-61-6		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:02	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/20/18 17:02	79-00-5		
Trichloroethene	<1.0	ug/L	1.0	1		11/20/18 17:02	79-01-6		
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		11/20/18 17:02	96-18-4		
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	95-63-6		
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		11/20/18 17:02	108-67-8		
Vinyl chloride	<1.0	ug/L	1.0	1		11/20/18 17:02	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/20/18 17:02	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	113	%	68-153	1		11/20/18 17:02	17060-07-0		
4-Bromofluorobenzene (S)	96	%	79-124	1		11/20/18 17:02	460-00-4		
Toluene-d8 (S)	98	%	69-124	1		11/20/18 17:02	2037-26-5		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	128	mg/L	10.0	1		11/19/18 14:52			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-11/13

Pace Project No.: 7070928

QC Batch:	91510	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	7070928001, 7070928002, 7070928003		

METHOD BLANK: 421906 Matrix: Water

Associated Lab Samples: 7070928001, 7070928002, 7070928003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	5.0	11/20/18 23:48	
Iron, Dissolved	ug/L	<20.0	20.0	11/20/18 23:48	
Manganese, Dissolved	ug/L	<10.0	10.0	11/20/18 23:48	
Zinc, Dissolved	ug/L	<20.0	20.0	11/20/18 23:48	

LABORATORY CONTROL SAMPLE: 421907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	50	50.9	102	85-115	
Iron, Dissolved	ug/L	2000	2020	101	85-115	
Manganese, Dissolved	ug/L	250	249	100	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

MATRIX SPIKE SAMPLE: 421909

Parameter	Units	7070928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	50	55.6	111	70-130	
Iron, Dissolved	ug/L	654	2000	2860	110	70-130	
Manganese, Dissolved	ug/L	78.7	250	351	109	70-130	
Zinc, Dissolved	ug/L	38.2	1000	1150	111	70-130	

SAMPLE DUPLICATE: 421908

Parameter	Units	7070928001 Result	Dup Result	RPD	Qualifiers
Beryllium, Dissolved	ug/L	<5.0	<5.0		
Iron, Dissolved	ug/L	654	<20.0		
Manganese, Dissolved	ug/L	78.7	<10.0		
Zinc, Dissolved	ug/L	38.2	<20.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-11/13

Pace Project No.: 7070928

QC Batch:	91649	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples: 7070928001, 7070928002, 7070928003			

METHOD BLANK: 422373 Matrix: Water

Associated Lab Samples: 7070928001, 7070928002, 7070928003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium	ug/L	<5.0	5.0	11/19/18 12:43	
Iron	ug/L	<100	100	11/19/18 12:43	
Manganese	ug/L	<10.0	10.0	11/19/18 12:43	
Zinc	ug/L	<20.0	20.0	11/19/18 12:43	

LABORATORY CONTROL SAMPLE: 422374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	50	49.2	98	85-115	
Iron	ug/L	2000	1980	99	85-115	
Manganese	ug/L	250	260	104	85-115	
Zinc	ug/L	1000	993	99	85-115	

MATRIX SPIKE SAMPLE: 422376

Parameter	Units	7068873012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	<5.0	50	49.4	99	70-130	
Iron	ug/L	352	2000	1890	77	70-130	
Manganese	ug/L	15.2	250	281	106	70-130	
Zinc	ug/L	51.0	1000	1070	102	70-130	

SAMPLE DUPLICATE: 422375

Parameter	Units	7068873012 Result	Dup Result	RPD	Qualifiers
Beryllium	ug/L	<5.0	<5.0		
Iron	ug/L	352	354	1	
Manganese	ug/L	15.2	15.7	3	
Zinc	ug/L	51.0	52.9	4	

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QUALITY CONTROL DATA

Project: MONTHLY-11/13

Pace Project No.: 7070928

QC Batch:	92039	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
Associated Lab Samples:	7070928001, 7070928002, 7070928003		

METHOD BLANK: 424392 Matrix: Water

Associated Lab Samples: 7070928001, 7070928002, 7070928003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	11/20/18 14:14	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/20/18 14:14	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	11/20/18 14:14	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	11/20/18 14:14	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/20/18 14:14	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/20/18 14:14	CL
1,1-Dichloropropene	ug/L	<1.0	1.0	11/20/18 14:14	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	11/20/18 14:14	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	11/20/18 14:14	
1,2,4,5-tetramethylbenzene	ug/L	<1.0	1.0	11/20/18 14:14	N3
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	11/20/18 14:14	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	11/20/18 14:14	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/20/18 14:14	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/20/18 14:14	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	11/20/18 14:14	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/20/18 14:14	
1,3-Dichloropropane	ug/L	<1.0	1.0	11/20/18 14:14	
1,4-Diethylbenzene	ug/L	<1.0	1.0	11/20/18 14:14	N3
2,2-Dichloropropane	ug/L	<1.0	1.0	11/20/18 14:14	
2-Butanone (MEK)	ug/L	<5.0	5.0	11/20/18 14:14	
2-Chlorotoluene	ug/L	<1.0	1.0	11/20/18 14:14	
2-Hexanone	ug/L	<5.0	5.0	11/20/18 14:14	
4-Chlorotoluene	ug/L	<1.0	1.0	11/20/18 14:14	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	11/20/18 14:14	
Acetone	ug/L	<5.0	5.0	11/20/18 14:14	
Benzene	ug/L	<1.0	1.0	11/20/18 14:14	
Bromobenzene	ug/L	<1.0	1.0	11/20/18 14:14	
Bromochloromethane	ug/L	<1.0	1.0	11/20/18 14:14	
Bromodichloromethane	ug/L	<1.0	1.0	11/20/18 14:14	
Bromoform	ug/L	<1.0	1.0	11/20/18 14:14	
Bromomethane	ug/L	<1.0	1.0	11/20/18 14:14	
Carbon disulfide	ug/L	<1.0	1.0	11/20/18 14:14	CL
Carbon tetrachloride	ug/L	<1.0	1.0	11/20/18 14:14	
Chlorobenzene	ug/L	<1.0	1.0	11/20/18 14:14	
Chlorodifluoromethane	ug/L	<1.0	1.0	11/20/18 14:14	N3
Chloroethane	ug/L	<1.0	1.0	11/20/18 14:14	
Chloroform	ug/L	<1.0	1.0	11/20/18 14:14	
Chloromethane	ug/L	<1.0	1.0	11/20/18 14:14	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/20/18 14:14	CL
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	11/20/18 14:14	
Dibromochloromethane	ug/L	<1.0	1.0	11/20/18 14:14	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-11/13

Pace Project No.: 7070928

METHOD BLANK: 424392

Matrix: Water

Associated Lab Samples: 7070928001, 7070928002, 7070928003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	11/20/18 14:14	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/20/18 14:14	
Ethanol	ug/L	<250	250	11/20/18 14:14	
Ethylbenzene	ug/L	<1.0	1.0	11/20/18 14:14	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	11/20/18 14:14	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/20/18 14:14	
Methylene Chloride	ug/L	<1.0	1.0	11/20/18 14:14	CL
n-Butylbenzene	ug/L	<1.0	1.0	11/20/18 14:14	
n-Propylbenzene	ug/L	<1.0	1.0	11/20/18 14:14	
p-Isopropyltoluene	ug/L	<1.0	1.0	11/20/18 14:14	
sec-Butylbenzene	ug/L	<1.0	1.0	11/20/18 14:14	
Styrene	ug/L	<1.0	1.0	11/20/18 14:14	
tert-Butylbenzene	ug/L	<1.0	1.0	11/20/18 14:14	
Tetrachloroethene	ug/L	<1.0	1.0	11/20/18 14:14	
Toluene	ug/L	<1.0	1.0	11/20/18 14:14	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/20/18 14:14	CL
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	11/20/18 14:14	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	11/20/18 14:14	
Trichloroethene	ug/L	<1.0	1.0	11/20/18 14:14	
Vinyl chloride	ug/L	<1.0	1.0	11/20/18 14:14	
Xylene (Total)	ug/L	<3.0	3.0	11/20/18 14:14	
1,2-Dichloroethane-d4 (S)	%	111	68-153	11/20/18 14:14	
4-Bromofluorobenzene (S)	%	95	79-124	11/20/18 14:14	
Toluene-d8 (S)	%	98	69-124	11/20/18 14:14	

LABORATORY CONTROL SAMPLE: 424393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.8	106	74-113	
1,1,1-Trichloroethane	ug/L	50	49.3	99	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	42.0	84	74-121	
1,1,2-Trichloroethane	ug/L	50	45.0	90	80-117	
1,1-Dichloroethane	ug/L	50	42.0	84	83-151	
1,1-Dichloroethene	ug/L	50	36.8	74	45-146	CL
1,1-Dichloropropene	ug/L	50	43.8	88	59-127	
1,2,3-Trichlorobenzene	ug/L	50	43.9	88	67-103	
1,2,3-Trichloropropane	ug/L	50	45.6	91	71-123	
1,2,4,5-tetramethylbenzene	ug/L	50	43.1	86	66-103	N3
1,2,4-Trimethylbenzene	ug/L	50	42.6	85	68-116	
1,2-Dibromoethane (EDB)	ug/L	50	49.3	99	83-115	
1,2-Dichloroethane	ug/L	50	45.1	90	74-129	
1,2-Dichloropropane	ug/L	50	49.0	98	75-117	
1,3,5-Trimethylbenzene	ug/L	50	42.3	85	67-116	
1,3-Dichlorobenzene	ug/L	50	47.2	94	71-112	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-11/13

Pace Project No.: 7070928

LABORATORY CONTROL SAMPLE: 424393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	45.2	90	74-112	
1,4-Diethylbenzene	ug/L	50	44.0	88	56-130	N3
2,2-Dichloropropane	ug/L	50	39.0	78	63-133	
2-Butanone (MEK)	ug/L	50	51.7	103	44-162	
2-Chlorotoluene	ug/L	50	42.7	85	74-101	
2-Hexanone	ug/L	50	65.0	130	32-183	CH
4-Chlorotoluene	ug/L	50	42.9	86	74-101	
4-Methyl-2-pentanone (MIBK)	ug/L	50	76.3	153	69-132	CH,L1
Acetone	ug/L	50	54.4	109	23-188	IH
Benzene	ug/L	50	44.9	90	73-119	
Bromobenzene	ug/L	50	49.8	100	72-102	
Bromochloromethane	ug/L	50	42.9	86	81-116	
Bromodichloromethane	ug/L	50	49.2	98	78-117	
Bromoform	ug/L	50	56.2	112	65-122	
Bromomethane	ug/L	50	39.0	78	52-147	
Carbon disulfide	ug/L	50	35.0	70	41-144	CL
Carbon tetrachloride	ug/L	50	49.9	100	59-120	
Chlorobenzene	ug/L	50	46.7	93	75-113	
Chlorodifluoromethane	ug/L	50	51.6	103	43-140	N3
Chloroethane	ug/L	50	41.5	83	49-151	
Chloroform	ug/L	50	41.6	83	72-122	
Chloromethane	ug/L	50	55.5	111	46-144	
cis-1,2-Dichloroethene	ug/L	50	38.0	76	72-121	CL
cis-1,3-Dichloropropene	ug/L	50	47.2	94	78-116	
Dibromochloromethane	ug/L	50	52.4	105	70-120	
Dibromomethane	ug/L	50	47.2	94	75-125	
Dichlorodifluoromethane	ug/L	50	39.7	79	22-154	
Ethanol	ug/L	1250	1160	92	10-151	
Ethylbenzene	ug/L	50	46.0	92	70-113	
Hexachloro-1,3-butadiene	ug/L	50	50.2	100	59-121	
Isopropylbenzene (Cumene)	ug/L	50	42.4	85	67-115	
Methylene Chloride	ug/L	50	34.3	69	61-142	CL
n-Butylbenzene	ug/L	50	42.7	85	73-107	
n-Propylbenzene	ug/L	50	41.5	83	68-116	
p-Isopropyltoluene	ug/L	50	44.1	88	73-101	
sec-Butylbenzene	ug/L	50	41.6	83	72-103	
Styrene	ug/L	50	48.6	97	72-118	
tert-Butylbenzene	ug/L	50	43.4	87	68-100	
Tetrachloroethene	ug/L	50	53.0	106	60-128	CH
Toluene	ug/L	50	45.3	91	72-119	
trans-1,2-Dichloroethene	ug/L	50	37.0	74	56-142	CL
trans-1,3-Dichloropropene	ug/L	50	50.2	100	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	58.2	116	71-121	
Trichloroethene	ug/L	50	44.9	90	69-117	
Vinyl chloride	ug/L	50	42.1	84	43-143	
Xylene (Total)	ug/L	150	141	94	71-109	
1,2-Dichloroethane-d4 (S)	%			112	68-153	

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QUALITY CONTROL DATA

Project: MONTHLY-11/13

Pace Project No.: 7070928

LABORATORY CONTROL SAMPLE: 424393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			100	79-124	
Toluene-d8 (S)	%			98	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 421995

421996

Parameter	30271619004		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result									
1,1,1,2-Tetrachloroethane	ug/L	ND	12500	12500	12900	13200	103	105	74-113	2	
1,1,1-Trichloroethane	ug/L	560	12500	12500	13800	13600	106	105	65-118	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	12500	12500	10100	10300	81	83	74-121	2	
1,1,2-Trichloroethane	ug/L	ND	12500	12500	11400	11300	92	91	80-117	1	
1,1-Dichloroethane	ug/L	338	12500	12500	11500	11400	89	89	83-151	1	
1,1-Dichloroethene	ug/L	ND	12500	12500	10300	10100	82	81	45-146	2	CL
1,1-Dichloropropene	ug/L	ND	12500	12500	11900	11700	95	94	59-127	1	
1,2,3-Trichlorobenzene	ug/L	ND	12500	12500	11600	12900	92	103	67-103	11	
1,2,3-Trichloropropane	ug/L	ND	12500	12500	11200	11400	89	91	71-123	2	
1,2,4,5-tetramethylbenzene	ug/L	ND	12500	12500	10700	11200	86	90	66-103	4	N3
1,2,4-Trimethylbenzene	ug/L	ND	12500	12500	11000	11100	88	89	68-116	1	
1,2-Dibromoethane (EDB)	ug/L	ND	12500	12500	12200	12400	98	99	83-115	1	
1,2-Dichloroethane	ug/L	1730	12500	12500	13200	13000	92	91	74-129	1	
1,2-Dichloropropane	ug/L	ND	12500	12500	12600	12600	100	101	75-117	0	
1,3,5-Trimethylbenzene	ug/L	ND	12500	12500	10900	11100	87	89	67-116	2	
1,3-Dichlorobenzene	ug/L	ND	12500	12500	12000	12300	96	98	71-112	2	
1,3-Dichloropropane	ug/L	ND	12500	12500	11100	11100	89	89	74-112	0	
1,4-Diethylbenzene	ug/L	ND	12500	12500	11400	11600	91	93	56-130	2	N3
2,2-Dichloropropane	ug/L	ND	12500	12500	11000	11200	88	90	63-133	3	
2-Butanone (MEK)	ug/L	ND	12500	12500	13700	13100	109	105	44-162	4	
2-Chlorotoluene	ug/L	ND	12500	12500	11000	11100	88	89	74-101	1	
2-Hexanone	ug/L	ND	12500	12500	16100	15700	128	126	32-183	2	CH
4-Chlorotoluene	ug/L	ND	12500	12500	10900	11000	87	88	74-101	1	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	12500	12500	19600	19000	157	152	69-132	3	CH,M0
Acetone	ug/L	2340	12500	12500	16000	15000	110	101	23-188	7	IH
Benzene	ug/L	16400	12500	12500	28800	27500	99	88	73-119	5	
Bromobenzene	ug/L	ND	12500	12500	12400	12600	99	101	72-102	2	
Bromochloromethane	ug/L	ND	12500	12500	10700	10700	86	85	81-116	0	
Bromodichloromethane	ug/L	ND	12500	12500	12400	12300	100	99	78-117	1	
Bromoform	ug/L	ND	12500	12500	13800	14000	110	112	65-122	1	
Bromomethane	ug/L	ND	12500	12500	10000	10600	80	85	52-147	6	
Carbon disulfide	ug/L	ND	12500	12500	9440	9440	75	76	41-144	0	CL
Carbon tetrachloride	ug/L	ND	12500	12500	13500	13300	108	107	59-120	1	
Chlorobenzene	ug/L	4950	12500	12500	17000	16800	96	95	75-113	1	
Chlorodifluoromethane	ug/L	ND	12500	12500	13800	13600	110	109	43-140	1	N3
Chloroethane	ug/L	ND	12500	12500	11000	10800	88	86	49-151	3	
Chloroform	ug/L	259	12500	12500	11100	11100	87	86	72-122	0	
Chloromethane	ug/L	ND	12500	12500	14500	14300	116	115	46-144	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY-11/13

Pace Project No.: 7070928

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 421995 421996											
Parameter	Units	30271619004		MS	MSD	421996		MS	MSD	% Rec	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	
cis-1,2-Dichloroethene	ug/L	5530	12500	12500	12500	15700	15400	81	79	72-121	2 CL
cis-1,3-Dichloropropene	ug/L	ND	12500	12500	12500	12100	12000	97	96	78-116	0
Dibromochloromethane	ug/L	ND	12500	12500	12500	12500	12800	100	102	70-120	2
Dibromomethane	ug/L	ND	12500	12500	12500	11900	11800	95	94	75-125	1
Dichlorodifluoromethane	ug/L	ND	12500	12500	12500	10000	9850	80	79	22-154	2
Ethanol	ug/L	ND	312000	312000	312000	335000	371000	107	119	10-151	10
Ethylbenzene	ug/L	572	12500	12500	12500	12300	12300	94	94	70-113	0
Hexachloro-1,3-butadiene	ug/L	ND	12500	12500	12500	13700	14300	109	114	59-121	4
Isopropylbenzene (Cumene)	ug/L	ND	12500	12500	12500	11100	11100	89	89	67-115	0
Methylene Chloride	ug/L	434	12500	12500	12500	9750	9100	75	69	61-142	7 CL
n-Butylbenzene	ug/L	ND	12500	12500	12500	11200	11300	89	90	73-107	1
n-Propylbenzene	ug/L	ND	12500	12500	12500	10900	10900	87	88	68-116	1
p-Isopropyltoluene	ug/L	ND	12500	12500	12500	11500	11600	92	93	73-101	1
sec-Butylbenzene	ug/L	ND	12500	12500	12500	10800	10900	86	87	72-103	1
Styrene	ug/L	ND	12500	12500	12500	12200	12400	98	99	72-118	2
tert-Butylbenzene	ug/L	ND	12500	12500	12500	11300	11500	90	92	68-100	2
Tetrachloroethene	ug/L	ND	12500	12500	12500	13900	13800	111	111	60-128	1 CH
Toluene	ug/L	36400	12500	12500	12500	49400	46300	104	80	72-119	6
trans-1,2-Dichloroethene	ug/L	ND	12500	12500	12500	9910	9850	79	79	56-142	1 CL
trans-1,3-Dichloropropene	ug/L	ND	12500	12500	12500	12600	12600	101	101	79-116	0
trans-1,4-Dichloro-2-butene	ug/L	ND	12500	12500	12500	14700	15100	117	121	71-121	3
Trichloroethene	ug/L	474	12500	12500	12500	12300	12100	94	93	69-117	1
Vinyl chloride	ug/L	546	12500	12500	12500	11900	11600	91	89	43-143	2
Xylene (Total)	ug/L	2930	37500	37500	37500	39400	39300	97	97	71-109	0
1,2-Dichloroethane-d4 (S)	%							115	115	68-153	
4-Bromofluorobenzene (S)	%							98	99	79-124	
Toluene-d8 (S)	%							97	98	69-124	

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QUALITY CONTROL DATA

Project: MONTHLY-11/13

Pace Project No.: 7070928

QC Batch: 91842 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 7070928001, 7070928002, 7070928003

METHOD BLANK: 423547 Matrix: Water

Associated Lab Samples: 7070928001, 7070928002, 7070928003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	11/19/18 14:40	

LABORATORY CONTROL SAMPLE: 423548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	530	106	85-115	

MATRIX SPIKE SAMPLE: 423550

Parameter	Units	7070912002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	764	1200	2000	103	75-125	

MATRIX SPIKE SAMPLE: 423552

Parameter	Units	7071093001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	35.0	300	338	101	75-125	

SAMPLE DUPLICATE: 423549

Parameter	Units	7070912002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	764	756	1	

SAMPLE DUPLICATE: 423551

Parameter	Units	7071093001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	35.0	32.0	9 D6	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MONTHLY-11/13
Pace Project No.: 7070928

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
 ND - Not Detected at or above adjusted reporting limit.
 TNTC - Too Numerous To Count
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
 MDL - Adjusted Method Detection Limit.
 PQL - Practical Quantitation Limit.
 RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
 S - Surrogate
 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
 Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
 LCS(D) - Laboratory Control Sample (Duplicate)
 MS(D) - Matrix Spike (Duplicate)
 DUP - Sample Duplicate
 RPD - Relative Percent Difference
 NC - Not Calculable.
 SG - Silica Gel - Clean-Up
 U - Indicates the compound was analyzed for, but not detected.
 N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
 Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
 TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MONTHLY-11/13

Pace Project No.: 7070928

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7070928001	INFLUENT #1	EPA 200.7	91649	EPA 200.7	91660
7070928002	INFLUENT #2	EPA 200.7	91649	EPA 200.7	91660
7070928003	EFFLUENT #1	EPA 200.7	91649	EPA 200.7	91660
7070928001	INFLUENT #1	EPA 200.7	91510		
7070928002	INFLUENT #2	EPA 200.7	91510		
7070928003	EFFLUENT #1	EPA 200.7	91510		
7070928001	INFLUENT #1	EPA 8260C/5030C	92039		
7070928002	INFLUENT #2	EPA 8260C/5030C	92039		
7070928003	EFFLUENT #1	EPA 8260C/5030C	92039		
7070928001	INFLUENT #1	SM22 2540C	91842		
7070928002	INFLUENT #2	SM22 2540C	91842		
7070928003	EFFLUENT #1	SM22 2540C	91842		

REPORT OF LABORATORY ANALYSIS

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WO#: 7070928



7070928

Section A						Section B						Section C					
Required Client Information:						Required Project Information:						Invoice Information:					
Company:			Fairchild Corporation			Report To:			Paul Lanzillotta			Attention:					
Address:			135 Gazza Blvd.			Copy To:						Company Name:					
Farmingdale, NY 117351420												Address:					
Email:			paul@wiretowater.com			Purchase Order #:						Pace Quote:					
Phone:			NONE			Project Name:			MONTHLY			Pace Project Manager:			john.stanton@pacelabs.com,		
Fax:															State / Location:		
Requested Due Date:						Project #:						Pace Profile #:					
												NY					
Regulatory Agency																	

[illegible]



Sample Condition Upon Receipt

WO#: 7070928

Client Name:

Fairchild

PM: JDS Due Date: 11/26/18
CLIENT: FAIR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor:

0.0

Cooler Temperature (°C):

9.7

Cooler Temperature Corrected (°C):

9.7

Temperature Blank Present: ☐ Yes ☒ No

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil ☒ N/A, water sample

Date and Initials of person examining contents:

JK 11/13/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☒ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	6.
Rush Turn Around Time Requested: ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	
Containers Intact: ☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests ☐ Yes ☒ No ☐ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL	
All containers needing preservation have been checked ☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # HC849161	Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide) ☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	Initial when completed: Lot # of added preservative: Date/Time preservative added
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	14.
KI starch test strips Lot #	
Residual chlorine strips Lot #	Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A	15. 11/13/18
Trip Blank Present: ☐ Yes ☒ No ☐ N/A	16. 11/13/18
Trip Blank Custody Seals Present ☐ Yes ☒ No ☐ N/A	
Pace Trip Blank Lot # (if applicable):	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

**DATA USABILITY SUMMARY REPORT
FAIRCHILD, EAST FARMINGDALE, NEW YORK**

Client: HDR, Inc., Mahwah, New Jersey
SDG: 460-167750-1
Laboratory: Test America, Edison, New Jersey
Site: Fairchild, East Farmingdale, New York
Date: December 5, 2018

SVOCs/PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	IN-1-20181024	460-167750-1	Water
1MS	IN-1-20181024MS	460-167750-1MS	Water
1MSD	IN-1-20181024MSD	460-167750-1MSD	Water
2	MW-49S-20181024	460-167750-2	Water
2DL*	MW-49S-20181024DL	460-167750-2DL	Water
3	MW-21S-20181025	460-167750-3	Water
4	BD-01-20181025	460-167750-4	Water
5	EB-01-20181025	460-167750-5	Water
6	S-66157-20181025	460-167750-6	Water

* - PFCs only

A Data Usability Summary Review was performed on the analytical data for five water samples and one aqueous equipment blank sample collected on October 24-25, 2018 by HDR, Inc. at the Fairchild site in East Farmingdale, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions" and the USEPA Method "Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".

Specific method references are as follows:

Analysis

SVOC (1,4-Dioxane)
PFCs

Method References

USEPA SW-846 Method 8270D-SIM
USEPA Method 537

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, USEPA Region II Data Review Standard Operating Procedures (SOPs), and the USEPA National Functional Guidelines for Organic Data Review as follows:

- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Semivolatile Organic Compounds (1,4-Dioxane)

Holding Times

- All samples were extracted within 7 days for water samples and analyzed within 40 days.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and RRF values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples are summarized in the table below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
EB-01-20181025	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MW-215-20181025 ug/L	BD-01-20181025 ug/L	RPD	Qualifier
1,4-Dioxane	0.058J	0.016	NC	None

Perfluorinated Compounds (PFCs)

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or coefficient of determination criteria were met.

Continuing Calibration

- All percent difference (%D) criteria were met.

Method Blank

- The method blanks exhibited the following contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
320-257498/1-A	PFHxS	0.312	U	5

Field QC Blank

- Field QC samples are summarized in the table below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
EB-01-20181025	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- EDS Sample ID 2 was analyzed at a 5X dilution for 6:2 FTS. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MW-215-20181025 ng/L	BD-01-20181025 ng/L	RPD	Qualifier
PFBA	80.0	79.3	1%	None
PFPeA	145	140	4%	
PFHxA	97.0	94.1	3%	
PFHpA	44.9	44.5	1%	
PFOA	117	113	3%	
PFNA	260	240	8%	
PFDA	25.6	25.5	0%	
PFUnA	26.7	25.6	4%	
PFBS	4.22	4.02	5%	
PFHxS	33.7	32.3	4%	
PFHpS	0.39	0.42	7%	
PFOS	70.5	73.8	5%	
6:2 FTS	2.24	2.12	6%	
8:2 FTS	2.99	3.44	14%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed:

Nancy Weaver
Nancy Weaver
Senior Chemist

Dated: 12/7/18

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-167750-1
 SDG No.: _____
 Client Sample ID: IN-1-20181024 Lab Sample ID: 460-167750-1
 Matrix: Water Lab File ID: C31897.D
 Analysis Method: 8270D SIM ID Date Collected: 10/24/2018 11:25
 Extract. Method: 3510C Date Extracted: 10/27/2018 10:10
 Sample wt/vol: 250 (mL) Date Analyzed: 10/27/2018 20:14
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 563737 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	3.7		0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

2

Lab Name: TestAmerica Edison Job No.: 460-167750-1
 SDG No.: S NW
 Client Sample ID: MW-49S-20181024 Lab Sample ID: 460-167750-2
 Matrix: Water Lab File ID: C31898.D
 Analysis Method: 8270D SIM ID Date Collected: 10/24/2018 15:05
 Extract. Method: 3510C Date Extracted: 10/27/2018 10:10
 Sample wt/vol: 250 (mL) Date Analyzed: 10/27/2018 20:31
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: GPC Cleanup: (Y/N) N
 Analysis Batch No.: 563737 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.016	U	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		10-150

3

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.058	J	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		10-150

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

4

Lab Name: TestAmerica Edison Job No.: 460-167750-1
 SDG No.: _____
 Client Sample ID: BD-01-20181025 Lab Sample ID: 460-167750-4
 Matrix: Water Lab File ID: C31900.D
 Analysis Method: 8270D SIM ID Date Collected: 10/25/2018 12:25
 Extract. Method: 3510C Date Extracted: 10/27/2018 10:10
 Sample wt/vol: 250 (mL) Date Analyzed: 10/27/2018 21:05
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 563737 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.016	U	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	38		10-150

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5

Lab Name: TestAmerica Edison Job No.: 460-167750-1
 SDG No.: _____
 Client Sample ID: EB-01-20181025 Lab Sample ID: 460-167750-5
 Matrix: Water Lab File ID: C31901.D
 Analysis Method: 8270D SIM ID Date Collected: 10/25/2018 13:15
 Extract. Method: 3510C Date Extracted: 10/27/2018 10:10
 Sample wt/vol: 250 (mL) Date Analyzed: 10/27/2018 21:21
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 563737 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.016	U	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	36		10-150

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6

Lab Name: TestAmerica Edison Job No.: 460-167750-1
 SDG No.: _____
 Client Sample ID: S-66157-20181025 Lab Sample ID: 460-167750-6
 Matrix: Water Lab File ID: C31902.D
 Analysis Method: 8270D SIM ID Date Collected: 10/25/2018 13:40
 Extract. Method: 3510C Date Extracted: 10/27/2018 10:10
 Sample wt/vol: 250 (mL) Date Analyzed: 10/27/2018 21:38
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 563737 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.016	U	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		10-150

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1

Lab Name: TestAmerica Sacramento Job No.: 460-167750-1
SDG No.: _____
Client Sample ID: IN-1-20181024 Lab Sample ID: 460-167750-1
Matrix: Water Lab File ID: 2018.11.08LLCC_036.d
Analysis Method: 537 (modified) Date Collected: 10/24/2018 11:25
Extraction Method: 3535 Date Extracted: 11/07/2018 07:59
Sample wt/vol: 254.7 (mL) Date Analyzed: 11/09/2018 13:18
Con. Extract Vol.: 10.00 (mL) Dilution Factor: 1
Injection Volume: 20 (uL) GC Column: Acquity ID: 2.1 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 258042 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	10.3		1.96	0.34
2706-90-3	Perfluoropentanoic acid (PFPeA)	14.1		1.96	0.48
307-24-4	Perfluorohexanoic acid (PFHxA)	13.2		1.96	0.57
375-85-9	Perfluoroheptanoic acid (PFHpA)	10.4		1.96	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	28.4		1.96	0.83
375-95-1	Perfluorononanoic acid (PFNA)	22.4		1.96	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.97	J	1.96	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.08	U	1.96	1.08
307-55-1	Perfluorododecanoic acid (PFDoA)	0.54	U	1.96	0.54
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.28	U	1.96	1.28
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.96	0.28
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.19		1.96	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	19.2	P	1.96	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.83	J	1.96	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	33.7		1.96	0.53
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.31	U	1.96	0.31
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.34	U	1.96	0.34
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.04	U	19.6	3.04
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.86	U	19.6	1.86
27619-97-2	6:2 FTS	3.04	J	19.6	1.96
39108-34-4	8:2 FTS	1.96	U	19.6	1.96

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2

Lab Name: TestAmerica Sacramento Job No.: 460-167750-1
 SDG No.: S NW
 Client Sample ID: MW-495-20181024 Lab Sample ID: 460-167750-2
 Matrix: Water Lab File ID: 2018.11.08LLCC_039.d
 Analysis Method: 537 (modified) Date Collected: 10/24/2018 15:05
 Extraction Method: 3535 Date Extracted: 11/07/2018 07:59
 Sample wt/vol: 259 (mL) Date Analyzed: 11/09/2018 13:41
 Con. Extract Vol.: 10.00 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: Acquity ID: 2.1 (mm)
 % Moisture: GPC Cleanup: (Y/N) N
 Analysis Batch No.: 258042 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	66.2		1.93	0.34
2706-90-3	Perfluoropentanoic acid (PFPeA)	273		1.93	0.47
307-24-4	Perfluorohexanoic acid (PFHxA)	164		1.93	0.56
375-85-9	Perfluoroheptanoic acid (PFHpA)	48.3		1.93	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	24.3		1.93	0.82
375-95-1	Perfluorononanoic acid (PFNA)	24.1		1.93	0.26
335-76-2	Perfluorodecanoic acid (PFDA)	1.93		1.93	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.29		1.93	1.06
307-55-1	Perfluorododecanoic acid (PFDoA)	1.45	J	1.93	0.53
72629-94-8	Perfluorotridecanoic acid (PFTrIA)	1.25	U	1.93	1.25
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.93	0.28
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.83		1.93	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	14.3	S	1.93	0.16
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.29	J	1.93	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	19.1		1.93	0.52
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.31	U	1.93	0.31
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.34	U	1.93	0.34
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.99	U	19.3	2.99
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.83	U	19.3	1.83
39108-34-4	8:2 FTS	1.93	U	19.3	1.93

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2DL

Lab Name: TestAmerica Sacramento Job No.: 460-167750-1
 SDG No.: S NW
 Client Sample ID: MW-49~~B~~-20181024 DL Lab Sample ID: 460-167750-2 DL
 Matrix: Water Lab File ID: 2018.11.16LLA_027.d
 Analysis Method: 537 (modified) Date Collected: 10/24/2018 15:05
 Extraction Method: 3535 Date Extracted: 11/07/2018 07:59
 Sample wt/vol: 259 (mL) Date Analyzed: 11/16/2018 15:27
 Con. Extract Vol.: 10.00 (mL) Dilution Factor: 5
 Injection Volume: 20 (uL) GC Column: Acquity ID: 2.1 (mm)
 % Moisture: GPC Cleanup: (Y/N) N
 Analysis Batch No.: 259660 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 FTS	512	/	96.5	9.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	101		25-150

3

S NW



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4

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-167750-1</u>
SDG No.: _____	
Client Sample ID: <u>BD-01-20181025</u>	Lab Sample ID: <u>460-167750-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>2018.11.08LLCC_041.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: <u>10/25/2018 12:25</u>
Extraction Method: <u>3535</u>	Date Extracted: <u>11/07/2018 07:59</u>
Sample wt/vol: <u>263.1(mL)</u>	Date Analyzed: <u>11/09/2018 13:56</u>
Con. Extract Vol.: <u>10.00(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20(uL)</u>	GC Column: <u>Acquity</u> ID: <u>2.1(mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>258042</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	79.3		1.90	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	140		1.90	0.47
307-24-4	Perfluorohexanoic acid (PFHxA)	94.1		1.90	0.55
375-85-9	Perfluoroheptanoic acid (PFHpA)	44.5		1.90	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	113		1.90	0.81
375-95-1	Perfluorononanoic acid (PFNA)	240		1.90	0.26
335-76-2	Perfluorodecanoic acid (PFDA)	25.5		1.90	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	25.6		1.90	1.05
307-55-1	Perfluorododecanoic acid (PFDoA)	0.52	U	1.90	0.52
72629-94-8	Perfluorotridecanoic acid (PFTrIA)	1.24	U	1.90	1.24
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.90	0.28
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.02		1.90	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	32.3	P	1.90	0.16
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.42	J	1.90	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	73.8		1.90	0.51
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.90	0.30
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.33	U	1.90	0.33
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.95	U	19.0	2.95
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.81	U	19.0	1.81
27619-97-2	6:2 FTS	2.12	J	19.0	1.90
39108-34-4	8:2 FTS	3.44	J	19.0	1.90

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Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-167750-1</u>
SDG No.: _____	
Client Sample ID: <u>EB-01-20181025</u>	Lab Sample ID: <u>460-167750-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>2018.11.08LLCC_042.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: <u>10/25/2018 13:15</u>
Extraction Method: <u>3535</u>	Date Extracted: <u>11/07/2018 07:59</u>
Sample wt/vol: <u>254.6 (mL)</u>	Date Analyzed: <u>11/09/2018 14:03</u>
Con. Extract Vol.: <u>10.00 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20 (uL)</u>	GC Column: <u>Acquity</u> ID: <u>2.1 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>258042</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.34	U	1.96	0.34
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.48	U	1.96	0.48
307-24-4	Perfluorohexanoic acid (PFHxA)	0.57	U	1.96	0.57
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	1.96	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	0.83	U	1.96	0.83
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	1.96	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.30	U	1.96	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.08	U	1.96	1.08
307-55-1	Perfluorododecanoic acid (PFDoA)	0.54	U	1.96	0.54
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.28	U	1.96	1.28
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.96	0.28
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	1.96	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.29	U <i>u</i>	1.96	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.96	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.53	U	1.96	0.53
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.31	U	1.96	0.31
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.34	U	1.96	0.34
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.04	U	19.6	3.04
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.87	U	19.6	1.87
27619-97-2	6:2 FTS	1.96	U	19.6	1.96
39108-34-4	8:2 FTS	1.96	U	19.6	1.96

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6

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-167750-1</u>
SDG No.: _____	
Client Sample ID: <u>S-66157-20181025</u>	Lab Sample ID: <u>460-167750-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>2018.11.08LLCC_043.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: <u>10/25/2018 13:40</u>
Extraction Method: <u>3535</u>	Date Extracted: <u>11/07/2018 07:59</u>
Sample wt/vol: <u>258.8 (mL)</u>	Date Analyzed: <u>11/09/2018 14:11</u>
Con. Extract Vol.: <u>10.00 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20 (uL)</u>	GC Column: <u>Acquity</u> ID: <u>2.1 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>258042</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	34.7		1.93	0.34
2706-90-3	Perfluoropentanoic acid (PFPeA)	105		1.93	0.47
307-24-4	Perfluorohexanoic acid (PFHxA)	61.8		1.93	0.56
375-85-9	Perfluoroheptanoic acid (PFHpA)	86.8		1.93	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	44.1		1.93	0.82
375-95-1	Perfluorononanoic acid (PFNA)	17.7		1.93	0.26
335-76-2	Perfluorodecanoic acid (PFDA)	2.81		1.93	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.74	J	1.93	1.06
307-55-1	Perfluorododecanoic acid (PFDoA)	0.53	U	1.93	0.53
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.26	U	1.93	1.26
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.93	0.28
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.58	J	1.93	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	5.78	P	1.93	0.16
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.18	J	1.93	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	18.7		1.93	0.52
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.31	U	1.93	0.31
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.34	U	1.93	0.34
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.99	U	19.3	2.99
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.84	U	19.3	1.84
27619-97-2	6:2 FTS	1.93	U	19.3	1.93
39108-34-4	8:2 FTS	1.93	U	19.3	1.93

**DATA USABILITY SUMMARY REPORT
FAIRCHILD, EAST FARMINGDALE, NEW YORK**

Client: HDR, Inc., Mahwah, New Jersey
SDG: 460-167943-1
Laboratory: Test America, Edison, New Jersey
Site: Fairchild, East Farmingdale, New York
Date: December 5, 2018

SVOCs/PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-43S-20181025	460-167943-1	Water

A Data Usability Summary Review was performed on the analytical data for one water sample collected on October 25, 2018 by HDR, Inc. at the Fairchild site in East Farmingdale, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions" and the USEPA Method "Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".

Specific method references are as follows:

Analysis

SVOC (1,4-Dioxane)
PFCs

Method References

USEPA SW-846 Method 8270D-SIM
USEPA Method 537

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, USEPA Region II Data Review Standard Operating Procedures (SOPs), and the USEPA National Functional Guidelines for Organic Data Review as follows:

- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries

- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data are acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Semivolatile Organic Compounds (1,4-Dioxane)

Holding Times

- All samples were extracted within 7 days for water samples and analyzed within 40 days.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and RRF values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Perfluorinated Compounds (PFCs)

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or coefficient of determination criteria were met.

Continuing Calibration

- All percent difference (%D) criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

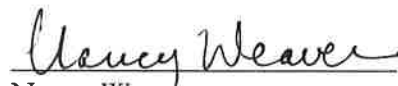
- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed:


Nancy Weaver
Senior Chemist

Dated: 12/7/18

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-167943-1
 SDG No.: _____
 Client Sample ID: MW-43S-20181025 Lab Sample ID: 460-167943-1
 Matrix: Water Lab File ID: C31880.D
 Analysis Method: 8270D SIM ID Date Collected: 10/25/2018 15:45
 Extract. Method: 3510C Date Extracted: 10/31/2018 13:37
 Sample wt/vol: 250 (mL) Date Analyzed: 10/31/2018 23:36
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 564772 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.056	J	0.20	0.016

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		10-150

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>460-167943-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-43S-20181025</u>	Lab Sample ID: <u>460-167943-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>PF110618B33.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: <u>10/25/2018 15:45</u>
Extraction Method: <u>3535</u>	Date Extracted: <u>11/06/2018 09:04</u>
Sample wt/vol: <u>276.7 (mL)</u>	Date Analyzed: <u>11/07/2018 00:24</u>
Con. Extract Vol.: <u>0.5 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20 (uL)</u>	GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136465</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	11.7		1.81	0.37
2706-90-3	Perfluoropentanoic acid (PFPeA)	19.8		1.81	0.68
307-24-4	Perfluorohexanoic acid (PFHxA)	11.4		1.81	0.22
375-85-9	Perfluoroheptanoic acid (PFHpA)	15.5		1.81	0.29
335-67-1	Perfluorooctanoic acid (PFOA)	24.5		1.81	0.29
375-95-1	Perfluorononanoic acid (PFNA)	34.6		1.81	0.34
335-76-2	Perfluorodecanoic acid (PFDA)	2.60		1.81	0.34
2058-94-8	Perfluoroundecanoic acid (PFUnA)	8.44		1.81	0.23
307-55-1	Perfluorododecanoic acid (PFDoA)	1.81		1.81	0.32
72629-94-8	Perfluorotridecanoic acid (PFTrIA)	0.22	U	1.81	0.22
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.41	U	1.81	0.41
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.19		1.81	0.40
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	7.34		1.81	0.23
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.74	U	1.81	0.74
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	34.9		1.81	0.69
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.81	J	1.81	0.48
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.51	U	1.81	0.51
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.41	U	18.1	0.41
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.63	U	18.1	0.63
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.90	U	18.1	0.90
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.51	U	18.1	0.51